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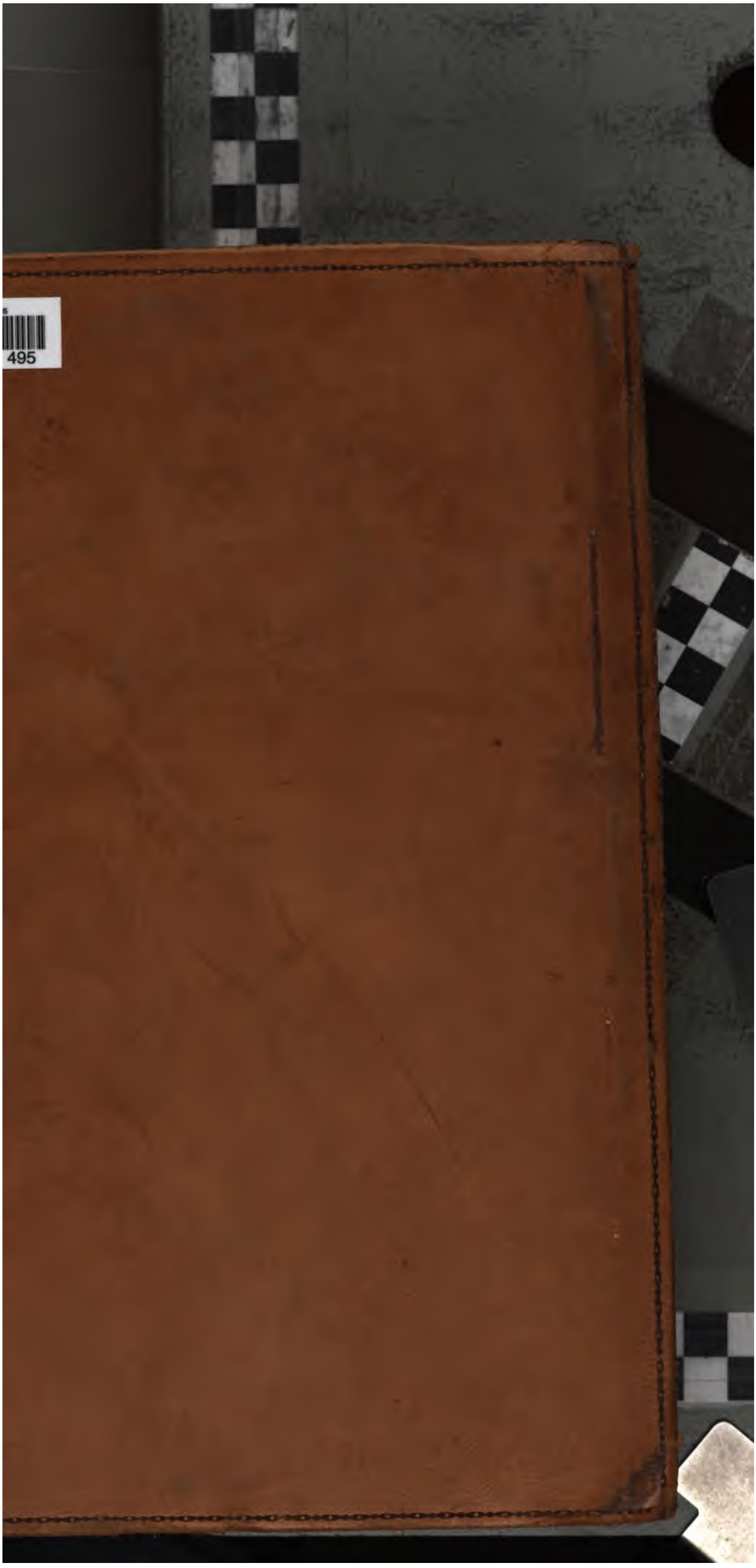
495

THE

EXECUTIVE DOCUMENTS

OF THE

HOUSE OF REPRESENTATIVES

FOR THE

FIRST SESSION OF THE FORTY-EIGHTH CONGRESS,

1883-'84.

Volume 22—No. 73.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1884.

48TH CONG., 1st Session. } HOUSE OF REPRESENTATIVES. { Ex. Doc. No. 73.

ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR

THE YEAR 1883.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1884.

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OF THE
LELAND STANFORD JUNIOR
UNIVERSITY.

A.7629.

LETTER

FROM

THE SECRETARY OF THE INTERIOR

TRANSMITTING

REPORT OF THE COMMISSIONER OF PATENTS.

JANUARY 31, 1884.—Referred to the Committee on Patents and ordered to be printed.

DEPARTMENT OF THE INTERIOR,
WASHINGTON, *January* 30, 1884.

The Speaker of the House of Representatives:

SIR: I have the honor to transmit herewith the report of the Commissioner of Patents, showing the operations of his Office for the year ending December 31, 1883, as required by section 494 of the Revised Statutes.

Very respectfully,

H. M. TELLER,
Secretary.

ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

TO CONGRESS,

FOR THE YEAR ENDING DECEMBER 31, 1883.

Laid before the House of Representatives by the Speaker *pro tempore* January 31, 1884, referred to the Committee on Patents, and ordered to be printed.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., January 29, 1884.

To the Senate and House of Representatives of the United States of America in Congress assembled:

In compliance with the requirements of section 494 of the Revised Statutes, I have the honor to submit the following report of the business of this Office for the year ending December 31, 1883.

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.

Applications (including caveats, trade-marks, and disclaimers):		
Cash received	$961,785 00	
Cash refunded	2,160 00	
Net cash	959,625 00	
Certificates of deposit	61,040 00	
Total cash and certificates		1,020,665 00
Copies:		
Cash received	79,549 15	
Cash refunded	1,910 75	
Net cash	77,638 40	
Certificates of deposit	923 65	
Total cash and certificates		78,562 05
Recording assignments:		
Cash received	28,405 90	
Cash refunded	1,390 05	
Net cash	27,015 85	
Certificates of deposit	603 50	
Total cash and certificates		27,619 35
Subscription to Official Gazette:		
Cash received	13,134 70	
Cash refunded	55 90	
Net cash	13,078 80	
Certificates of deposit	65 30	
Total cash and certificates		13,144 10
Registration of labels:		
Cash received	5,483 00	
Cash refunded	120 00	
Net cash	5,363 00	
Certificates of deposit	126 00	
Total cash and certificates		5,489 00
Proceeds of sale of rejected models		760 50
Aggregates.		
Cash received	$1,089,118 25	
Cash refunded	5,636 70	
Net cash	1,083,481 55	
Certificates of deposit	62,758 45	
Total cash and certificates		1,146,240 00

EXPENDITURES.

Amount expended under the several appropriations from January 1, 1883, to January 1, 1884.

Salaries	$543,160 15
Contingent expenses (to June 30, 1883)	10,642 99
[By act of Congress, approved March 3, 1883, making appropriations for the legislative, executive, and judicial expenses of the Government for the fiscal year ending June 30, 1884, it was provided that the contingent funds of the various bureaus of the Department of the Interior be consolidated. The contingent expenses herein mentioned therefore only cover a period of six months.]	
Official Gazette	34,220 00
Photolithographing	66,091 49
Copies of drawings	14,990 18
Scientific library	6,130 05
Total	675,234 86

Statement of contingent expenses in detail.

Stationery and books	$267 52
File-holders	60 50
Card-board	257 00
Furniture	453 71
Hardware	175 33
Painting	139 00
Carpets, &c	498 84
Services	1,907 70
Ice	447 47
Engraving and printing	401 47
Desks, cases, and repairing	2,018 55
Tin shelves	14 00
Washing towels, horse livery, paste, lumber, telephone, winding clocks, and sundries	4,001 80
Total	10,642 99

RECEIPTS OVER EXPENDITURES.

Total receipts	$1,146,240 00
Total expenditures	675,234 86
Receipts over expenditures	471,005 14

Statement of balance in the Treasury of the United States on account of the Patent fund.

Amount to the credit of the fund January 1, 1883	$2,205,471 10
Amount of receipts during the year 1883	1,146,240 00
Total	3,351,711 10
Deduct expenditures for year 1883	675,234 86
Balance January 1, 1884	2,676,476 24

SUMMARY OF THE BUSINESS OF THE OFFICE.

Number of applications for patents for inventions	33,073
Number of applications for patents for designs	1,238
Number of applications for reissues of patents	265
Total number of applications relating to patents	34,576
Number of caveats filed	2,741
Number of applications for registration of trade-marks	915
Number of applications for registration of labels	834

Number of disclaimers filed	18
Number of appeals on the merits	640
Total	5,148
Total number of applications requiring investigation and action	39,724
Number of patents issued, including designs	22,216
Number of patents reissued	167
Number of trade-marks registered	902
Number of labels registered	906
Total number of patents granted and certificates issued	24,191
Number of patents expired during the year	8,874
Number of patents withheld for non-payment of final fee	2,366

PATENTS ISSUED.

Patents issued to citizens of the United States, with the ratio of population to each patent granted.

States and Territories.	Patents and Designs.	One to every—
Alabama	77	16,396
Arizona Territory	14	2,888
Arkansas	59	13,602
California	596	1,450
Colorado	119	1,633
Connecticut	883	705
Dakota Territory	30	4,505
Delaware	36	4,070
District of Columbia	217	818
Florida	24	11,228
Georgia	115	13,410
Idaho Territory	6	5,435
Illinois	1,792	1,717
Indiana	712	2,777
Iowa	445	3,650
Kansas	189	5,270
Kentucky	228	7,231
Louisiana	80	11,749
Maine	183	3,546
Maryland	260	3,595
Massachusetts	2,173	820
Michigan	727	2,251
Minnesota	210	3,717
Mississippi	51	22,188
Missouri	625	3,469
Montana Territory	17	2,303
Nebraska	87	5,200
Nevada	23	2,707
New Hampshire	139	2,496
New Jersey	1,066	1,061
New Mexico Territory	11	10,869
New York	4,359	1,166
North Carolina	87	16,088
Ohio	1,604	1,993
Oregon	76	2,299
Pennsylvania	2,168	1,975
Rhode Island	327	845
South Carolina	47	21,182
Tennessee	124	12,438
Texas	208	7,652
Utah Territory	21	6,855
Vermont	109	3,048
Virginia	122	12,398
Washington Territory	21	3,576
West Virginia	82	7,542
Wisconsin	394	3,338
Wyoming Territory	5	4,157
United States Army	6	.....
United States Navy	3	.....
Total	20,957	.....

Patents issued to citizens of foreign countries.

Of patents issued to foreigners there were granted to citizens of—

Australia	10
Austria	33
Belgium	20
Bermuda	1
Brazil	1
Canada	251
Central America	3
Cuba	5
Denmark	7
East Indies	2
England	435
France	179
Germany	235
Hawaiian Islands	2
Holland	2
Italy	3

Patents issued to citizens, &c.—Continued.

Japan	2
Mexico	3
Newfoundland	1
New Zealand	4
Norway	4
Peru	2
Russia	5
Spain	2
Swedon	12
Switzerland	22
Turkey	3
United States of Colombia	2
Venezuela	1
Victoria	4
West Indies	4
Total	1,259

Comparative statement of the business of the Office from 1837 to 1883, inclusive.

Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.
1837	.....	.....	435	$29,289 08	$33,506 98	.....
1838	.....	.....	520	42,123 54	37,402 10	$4,721 44
1839	.....	.....	425	37,260 00	34,543 51	2,716 49
1840	735	228	473	38,056 51	39,020 67	.....
1841	847	312	495	40,413 01	52,666 87	.....
1842	761	391	517	36,505 68	31,241 48	5,264 20
1843	819	315	510	35,315 81	30,776 96	4,538 85
1844	1,045	380	495	42,509 26	36,244 73	6,264 53
1845	1,246	452	504	51,076 14	39,395 65	11,680 49
1846	1,272	448	638	50,264 16	46,158 71	4,105 45
1847	1,531	553	569	63,111 19	41,878 35	21,232 84
1848	1,628	607	652	67,576 69	58,905 84	8,670 85
1849	1,955	595	1,068	80,752 98	77,716 44	3,036 54
1850	2,193	602	993	86,927 05	80,100 95	6,816 10
1851	2,258	760	872	95,738 61	86,916 93	8,821 68
1852	2,639	996	1,019	112,656 34	95,916 91	16,739 43
1853	2,673	901	961	121,527 45	132,869 83	.....
1854	3,328	868	1,844	163,789 84	167,146 32	.....
1855	4,435	906	2,012	216,459 35	179,540 33	36,919 02
1856	4,960	1,024	2,506	192,588 02	199,931 02	.....
1857	4,771	1,010	2,896	196,132 01	211,582 09	.....
1858	5,364	934	3,695	203,716 16	193,193 74	10,522 42
1859	6,225	1,097	4,504	245,942 15	210,278 41	35,663 74
1860	7,653	1,084	4,778	256,352 59	252,820 80	3,531 79
1861	4,643	700	3,329	137,354 44	221,491 91	.....
1862	5,038	824	3,532	215,754 99	182,810 39	32,944 60
1863	6,014	787	4,184	195,593 29	189,414 14	6,179 15
1864	6,932	1,063	5,025	240,919 98	229,868 00	11,051 98
1865	10,664	1,937	6,616	348,791 84	274,199 34	74,592 50
1866	15,269	2,723	9,458	495,665 38	361,724 28	133,941 10
1867	21,276	3,597	13,026	646,581 92	639,263 32	7,318 60
1868	20,420	3,705	13,410	681,565 86	628,679 77	52,886 09
1869	19,271	3,624	13,997	693,145 81	436,430 78	206,715 03
1870	19,171	3,273	13,333	669,456 76	557,149 19	112,307 57
1871	19,472	3,366	13,056	678,716 46	560,595 08	118,121 38
1872	18,246	3,090	13,613	699,726 39	665,591 36	34,135 03
1873	20,414	3,248	12,864	703,191 77	691,178 98	12,012 79
1874	21,602	3,181	13,599	738,278 17	679,288 41	58,989 76
1875	21,638	3,094	14,837	743,453 36	721,657 71	21,795 65
1876	21,425	2,697	15,595	757,987 65	652,542 60	105,445 05
1877	20,308	2,609	14,187	732,342 85	613,152 62	119,190 23
1878	20,260	2,755	13,444	725,375 55	593,082 89	132,292 66
1879	20,059	2,620	13,213	703,931 47	529,638 97	174,292 50
1880	23,012	2,490	13,947	749,685 32	538,865 17	210,820 15
1881	26,059	2,406	16,584	853,665 89	605,173 28	248,492 61
1882	31,522	2,553	19,267	1,009,219 45	683,867 67	325,351 78
1883	34,576	2,741	22,383	1,146,240 00	675,234 86	471,005 14

It will be observed that the business of the Office has greatly increased during the past year, and it is now increasing in a steady ratio. With this increase of business there is, of course, a corresponding increase in the receipts of the Office, the amount paid in during the year ending December 31, 1883, being $1,146,240.00, which is $137,020.55 in excess of the amount received during the year 1882, and $471,005.14 in excess of all expenditures by and for the bureau during the year last past.

AN INCREASE OF FORCE NECESSARY.

I wish, in connection with the above exhibit, to respectfully call the attention of Congress to certain facts, which I trust may have some influence in securing the adoption of such measures as will in the future remove all just cause for the complaints that reach me from all

quarters and sections of the country touching the delay in dispatching the business which comes to this bureau.

I am daily in receipt of communications severely censuring the honorable Secretary and the Commissioner for not employing such additional force as is necessary to bring and keep the work of the bureau up to date. The impression seems to prevail that since the patrons of the Office have provided the funds for the prompt disposition of their business, some blame attaches to the Department or to this Office for not applying the money to the purpose for which it was received. I am daily appealed to by Senators and Members to make applications special, on the ground that if an examination is delayed until the case is reached in its regular order the value of the patent may be in large measure lost to the inventor. Although well disposed to oblige my friends, I cannot, without violating a well-considered rule of the bureau, comply with these requests. I know these delays are not only vexatious, but in some instances very disastrous to the interests involved. There is no valid reason why a single application should remain a week in the Office without being taken up for action, and as little excuse for compelling assignees of interests in patents to wait several months before their deeds can be recorded. Parties entitled to copies of records, which are indispensable as evidence on the trial of pending causes, are compelled to wait several weeks before they can be furnished.

The examining corps is greatly behind with its work simply because it is a physical impossibility with the number employed to keep it up. It has frequently been suggested that the force of the Office does not accomplish as much as ought to be required of it. Since I have taken charge of the Office I have been at pains to ascertain if those employed in the bureau are unfaithful or shirk duty in any wise. I note first that under the rules of the Office shirking is next to impossible, and absence in excess of the thirty days authorized by statute (unless in case of sickness) is not allowed, except in rare instances, and without pay. I am satisfied that no private employer in the country has more faithful and excellent service from his employés than is rendered by those employed in this bureau. There are exceptions, but they are very few, and, I may add, that in such cases what the individuals lack in earnest effort in the discharge of duty here they endeavor to make up by exceptional activity in securing influence and indorsement to induce the Department to retain them in the service and promote them.

It is evident that the Government never intended to make the Patent Office a source of revenue. It was and is desired to make it self-sustaining, and the fees were fixed and are as low as was and is deemed compatible with the possibility of providing ample revenue to secure all necessary facilities of every kind and character for the prompt and thorough dispatch of the business properly coming before it. Not a cent of money expended, directly or indirectly, for the support and maintenance of the Patent Office is raised by taxation. Every dollar is paid by those who have business before the Office—the inventors of the country. It is beyond question that not only the inventors and those immediately interested in inventions, but the great body of the people as well, are interested in having the business of this bureau done promptly and thoroughly. The inventor does not want a worthless patent, nor are the people willing to pay a royalty when none can be justly claimed, nor do they wish to go into the courts to test the validity of a patent. The inventor not only wants to know whether he is legally entitled to a patent for the subject-matter of his application, but he desires and is entitled to have the question speedily determined.

To provide ample accommodations and a thoroughly-competent corps of examiners, clerks, and needful help, the inventors have paid to the Government a sufficient fund, which is held in trust for that purpose. Under these circumstances I respectfully submit that force enough should be employed to dispatch the business of the bureau thoroughly and without needless delay. The present force is utterly inadequate, nor will the increase suggested by my predecessor be sufficient.

INCREASE IN SALARIES.

I concur in what my predecessor said in his report, dated September 14, 1883, to the honorable the Secretary of the Interior in regard to salaries. The examining corps in this bureau should be composed of men of first-class ability and undoubted integrity. It is of consequence to inventors and to the people at large that patents should not be improvidently issued. The examining corps must, in the main, be relied upon to prevent this. Not one patent in fifty comes under the personal supervision of the Commissioner or his assistant. The examiners determine these important questions in the first instance, and in a great majority of cases *first* and *finally*. The Government, I submit, can afford (especially when inventors provide the funds) to pay as full compensation for first-class ability and strict integrity as a private individual or corporation. The experience of the Office is, that it is next to impossible to secure, with the hope of retaining for more than a short period, assistant examiners whose thorough fitness renders them especially valuable to the service. They are constantly leaving to accept more lucrative employment outside. Since every conceivable advantage is on the side of *just*, not to say *liberal*, compensation, I trust it may please Congress to adopt the suggestions of my predecessor and provide the increase of salaries indicated in the estimates submitted, as well as for the increase of the force employed.

ROOM.

I cannot refrain from repeating what Mr. Commissioner Marble said in regard to the rooms occupied by the bureau. They are inadequate. I am compelled to keep valuable documents and records piled on the floor; some are in rooms so damp that the papers are moldy.

Many of the employés occupy small, dark, and damp rooms, and in numerous cases their health has been seriously impaired. Within a few years the entire building now occupied by the Department of the Interior will be required by this Office for the proper accommodation of its force and the safe keeping of its records and files.

Very respectfully, your obedient servant,

BENJ. BUTTERWORTH,
Commissioner.

ALPHABETICAL LIST

OF

PATENTEES FOR THE YEAR 1883.

[Patentees of Designs, Trade-Marks, and Labels, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Specification.	Drawing.	Volume.	Page.
Abadie, Egbert, Paris, France. Machine for printing endless paper	276,547	May 1	1	1	23	1627
Abbe, John R., South Windham, Conn. Buffing-wheel	277,097	May 8	740	194, 195	23	1758
Abbe, John R., Manchester, N. H. Buffing-wheel	284,705	Sept. 11	673	189	24	1024
Abbot, Charlotte E., Portland, Me. Folding table	286,891	Oct. 16	1398	384	25	967
Abbott, Alfred T., New York, N. Y. Mangle	289,054	Nov. 27	1588	439	25	807
Abbott, Benjamin R. (See Gray and Abbott.)						
Abbott, George. (See Armstrong and Abbott.)						
Abbott, George, Jr., Moorestown, N. J. Milk-can top	288,391	Nov. 13	708	207	25	648
Abbott, George F., Haverhill, Mass. Device for attaching neckties to collars	275,876	Apr. 17	1323	364	23	1468
Abbott, James H. (See Howland, Frederick L., assignor.)						
Abbott, Jonathan P., Cleveland, Ohio. Eaves-trough hanger	276,654	May 1	142	36	23	1650
Abbott, Jonathan P., Cleveland, Ohio. Eaves-trough hanger	285,371	Sept. 25	1485	419	24	1181
Abbott, Phillips, Brooklyn, N. Y. Cigar-cutter	275,009	Apr. 3	166	44	23	1254
Abbott, T. G., *et al.* (See Weale, Henry P., assignor.)						
Abbott, Warren M., *et al.* (See Peck, Orrin B., assignor.)						
Abbott, Warren M., Chicago, Ill. Brake-shoe	277,098	May 8	742	195	23	1758
Abbott, William. (See Baker and Abbott.)						
Abel, William G., assignor of one-third to A. King, Titusville, Pa. Gate-valve	287,788	Nov. 6	1	1	25	507
Abel, William G., assignor of one-half to J. R. Barber, Titusville, Pa. Hose-coupling	290,195	Dec. 18	1017	287	25	1083
Abel, William G., assignor of one-half to J. R. Barber, Titusville, Pa. Ball and expansion-pipe connection	290,196	Dec 18	1018	287	25	1083
Abele, William, Zanesville, Ohio. Sash-holder	284,993	Sept. 18	1031	289	24	1095
Abell, John, Woodbridge, Ontario, Canada. Steam-boiler furnace	273,421	Mar. 6	232	63	23	873
Abendroth Brothers. (See Fisher, George A., assignor.)						
Abercrombie, Frank P., Woodbury, N. J. Car-ventilator	272,371	Feb. 13	972	271	23	621
Aberle, Fredrick, assignor, by mesne assignments, to F. Egge, Bridgeport, Conn. Mechanical toy	289,491	Dec. 4	152	41	25	912
Abner, Christian. (See Hemje, Charles, assignor.)						
Abner, Christian, Washington, D. C. Machine for cutting, separating, and mixing tobacco	283,739	Aug. 28	1537	435	24	803
Aborn, Frank, assignor of one-half to F. H. Lunie, Cleveland, Ohio. Developing or tracing machine	282,831	Aug. 7	425	121	24	575
Aborn, James, Providence, R. I. Filtering-faucet	270,881	Jan. 23	1303	377	23	275
Abraham, John D. (See Herbert, Henry, assignor.)						
Abraham, Lewis. (See Knight, William H. H., assignor.)						
Abrahart, William, Cincinnati, Ohio. Apparatus for measuring and cutting out garments	272,611	Feb. 20	1297	361	23	681
Abrams, George B. (See Knight, William H. H., assignor.)						
Abrams, Gustav, Stillwater, Minn. Register	286,671	Oct. 16	1122	302	25	219
Abt, Roman, Paris, France. Permanent way for mountain railways	284,790	Sept. 11	786	219	24	1043
Acaster, Amos J., Sheffield, county of York, England. Device for rolling railway-rails	276,322	Apr. 24	1877	521	23	1571
Accles, James G., assignor to Gatling Gun Company, Hartford, Conn. Feeder for machine-guns	290,622	Dec. 18	1583	435, 436	25	1180
Acheson, Nathan B., Youngstown, Ohio Stove-drum	271,758	Feb. 6	207	58	23	476
Acheson, William, *et al.* (See Phelan, John, assignor.)						
Acker, James C., *et al.* (See Depew, John H., assignor.)						
Ackerley, Aaron A., Chicago, Ill. Steam-engine cut-off valve	288,196	Nov. 13	507	141	25	605
Ackerly, Nathaniel S., Huntington, N. Y. Elevator-bucket	288,197	Nov. 13	508	141	25	605
Ackerman, Abram N., Passaic, N. J. Gudgeon-roller	283,551	Aug. 21	1303	365	24	748
Ackerman, John. A. (), Mitchell, and F. M. Underwood, Columbus, Ohio. Saw-mill dog	274,099	Mar. 20	1097	303	23	1037
Ackerman, Lyman, Dexter, N. Y. Hay and grain unloader	273,422	Mar. 6	234	63	23	874
Ackermann, Hermann, Peru, Ill. Combined lid-lifter, tongs, and poker	277,531	May 15	1260	338	23	1855
Ackley, Thaddeus, Warren, Ohio. Speed indicator	273,423	Mar. 6	235	63	23	874
Acuff, William H., *et al.* (See Ferguson, Robert W., assignor.)						
Acuff, William H., *et al.* (See Foster, Hickman E., assignor.)						
Adair, James, Sewickley, Pa. Fire-place lining	272,013	Feb. 13	535	145	23	545
Adair, Robert G. (See McAlpin, Joseph, assignor.)						
Adam, August, Reno, Nev. Potato-digger	290,305	Dec. 18	1158	324, 325	25	1106
Adam, William, Kidderminster, county of Worcester, England. Chenille weft and manufacturing the same	289,203	Nov. 27	1766	490	25	840
Adams, Albert J. (See Kells and Adams.)						
Adams, Alfred. (See Stockwell, Levi W., assignor.) (Reissue.)						
Adams, Alfred, Cleveland, Ohio. Machine for making paper bags	279,114	June 12	641	175	23	2243
Adams, Alonzo S., Boston, Mass. Automatic tongs	273,243	Mar. 6	1	1	23	835

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Adams, Alpheus E. (See Knapp and Adams.)						
Adams, Azro H., assignor of one-fourth to J. G. Hurley, Santa Rosa, Cal. Boring-brace	282,251	July 31	2426	667	24	444
Adams, Benjamin F., Brooklyn, N. Y. Refrigerator	271,391	Jan. 30	1940	561	23	390
Adams, Benjamin F., Brooklyn, N. Y. Refrigerator	290,306	Dec. 18	1159	325	25	1107
Adams & Co., F. F. (See Chapman, George, assignor.)						
Adams Company, F. F. (See Morris, John H. and T. D., assignors.)						
Adams, David E., administrator. (See Willoughby, James D.)						
Adams, Dewey F., Providence, R. I. Gem-setting	270,921	Jan. 23	1353	390	23	283
Adams Electric Company. (See Adams, Wellington, assignor.)						
Adams, Franklin F., Erie, Pa. Truck	284,586	Sept. 11	595	149	24	999
Adams, George, and M. M. Jenkins, Sherburne, Minn. Cockle-seed separator	271,392	Jan. 30	1941	502	23	390
Adams, George B., Newark, assignor of one-half to T. S. Crane, East Orange, N. J. Lead and crayon holder	270,197	Jan. 9	437	129	23	97
Adams, George B., Newark, assignor of one-fourth to T. S. Crane, East Orange, N. J. Lead or crayon holder	272,931	Feb. 27	1719	480	23	702
Adams, George B., Newark, assignor of one-half to J. Hardman, Jr., Belleville, N. J. Purse	288,539	Nov. 13	945	258	25	680
Adams, George E., Providence, R. I. Bar or toggle	273,792	Mar. 13	718	195	23	966
Adams, George E., Providence, R. I. Glove-fastener	275,796	Apr. 17	1205	335	23	1451
Adams, George E., Providence, R. I. Bar for jewelry-chains	288,592	Nov. 13	769	207	25	648
Adams, George H., Hill, N. H. Knitting-machine needle	282,029	July 31	2129	585	24	395
Adams, George L., assignor of one-half to J. C. Ellsworth, Fowlerville, Mich. Printing-press	276,207	Apr. 24	1718	475, 476	23	1545
Adams, George Q. (See Comstock and Adams.)						
Adams, George Q. (See Merrick and Adams.)						
Adams, Henry. (See Davis, John H., assignor.)						
Adams, Hiram R., Boston, Mass., assignor to Adams Manufacturing Company, Portland, Me. Nail for boots and shoes	275,010	Apr. 3	167	44	23	1254
Adams, Isaac, Jr., Boston, Mass. Incandescent electric lamp	282,030	July 31	2150	585	24	395
Adams, J. McGregor. (See Harris, Arthur, assignor.)						
Adams, J. McGregor. (See Harris and Clark, assignors.)						
Adams, J. W., *et al.* (See Gates, Thomas, assignor.)						
Adams, James A., Falcon, Tenn. Horse and hand power	285,198	Sept. 18	1280	360	24	1138
Adams, John F., Eliza, Ill. Washing-machine	270,357	Jan. 9	631	186	23	133
Adams, John M. (See Carter and Adams.)						
Adams, John M., and W. F. Carter, San Francisco, Cal. Ore-concentrator	272,509	Feb. 20	1168	327	23	659
Adams, John Q., Kane, Ill. Nut-lock	277,866	May 22	1659	453	23	1931
Adams, John S., assignor to Elgin Tubular Iron Tower Company, Elgin, Ill. Tower for windmills. (Reissue)	10,292	Mar. 6	587	156	23	935
Adams, Joseph, Philadelphia, Pa. Knitting-machine	270,275	Jan. 9	527	135	23	113
Adams Manufacturing Company. (See Adams, Hiram R., assignor.)						
Adams, Marcus W. (See Harper, Nathan, assignor.)						
Adams, Nathaniel, Ickesburg, Pa. Bag-holder	277,651	May 15	1404	378	23	1879
Adams, Nelson B. (See Orvis and Adams.)						
Adams, Orsemas T. X., assignor to E. S. Pratt, Chicago, Ill. Boot or shoe clamp	278,385	May 29	2332	638	23	2056
Adams, Peter, Jr. (See Shepard and Adams.)						
Adams, Richard, Boston, Mass. Reclining-chair	279,115	June 12	642	175, 176	23	2243
Adams, S. Jarvis, Pittsburg, Pa. Forming cores	272,612	Feb. 20	1298	302	23	682
Adams, S. Jarvis, Pittsburg, Pa. Method of and apparatus for forming molds	274,691	Mar. 27	1670	521, 522	23	1180
Adams, Samuel. (See Simmons and Adams.)						
Adams, W. Irving, Montclair, N. J. Photographic developing pan or tray	289,951	Dec. 11	718	203	25	1019
Adams, Wellington, assignor to Adams Electric Company, St. Louis, Mo. Electric switch	285,778	Oct. 2	1	1	25	3
Adams & Westlake Manufacturing Company. (See Briggs and Robinson, assignors.)						
Adams & Westlake Manufacturing Company. (See Sloan, Frank, assignor.)						
Adams & Westlake Manufacturing Company. (See Van Hagen, Isaac, assignor.)						
Adams, William, Salem, Oreg. Car coupling	270,171	Jan. 2	405	118	23	82
Adams, William H. (See Phillips, Russell, assignor.)						
Adams, William H., Boston, Mass. Car-brake	271,206	Jan. 30	1707	495	23	349
Adams, William Q., Portsmouth, Ohio. Brick	270,274	Jan. 9	526	155	23	113
Adams, William W., and D. R. Snelling, Ozark, Ark. Washing machine	269,984	Jan. 2	189	55	23	39
Adamson, Charles. (See Goodsell, Adamson, and Hering.)						
Adamson, J. Arthur, Philadelphia, Pa. Suspenders	279,306	June 12	858	238	23	2279
Adamson, Samuel E., Stapleton, N. Y. Branding-stamp	279,116	June 12	643	176	23	2243
Adcock, Joseph W., Utah, Ill. Corn-planter	272,111	Feb. 13	663	181	23	566
Addie, John, Boston, Mass., assignor of one-half to W. G. Bell. Hatchway-guard for elevators	272,932	Feb. 27	1721	481	23	702
Addy, Charles J., Malden, Mass., assignor to T. A. Dodge, trustee. Heel beading and wheeling tool	270,622	Jan. 16	981	283	23	208
Addy, Charles J., Malden, Mass., assignor to T. A. Dodge, trustee. Burnishing apparatus for boots or shoes	275,452	Apr. 10	772	207	23	1366
Adee, Frederick. (See Foley, James, assignor.)						
Adel, Wilmer T., San José, Cal. Two-wheeled vehicle	271,294	Jan. 30	1812	526	23	367
Ader, Clement, Paris, France. Telephonic transmitter	274,246	Mar. 20	1291	355, 356	23	1079
Adgate, Joseph J., New York, N. Y. Wardrobe-bedstead	269,985	Jan. 2	190	55	23	40
Adgate, Joseph J., New York, N. Y. Wardrobe-bedstead	273,424	Mar. 6	236	64	23	874
Adie, Patrick, London, England. Lawn edge-trimmer	274,100	Mar. 20	1098	303	23	1017
Adjustable Cover Company. (See Goodwin, Landon R., assignor.)						
Adjustable Telephone Support Company. (See Loring, Charles T., assignor.)						
Adjustable Telephone Support Company. (See Tregurtha, James, assignor.)						
Adkisson, Duncan R., Corsicana, Tex. Bag holder and filler	271,759	Feb. 6	208	58	23	476
Adt, John B., Baltimore, Md. Apparatus for separating stems and dust from granulated tobacco	278,911	Nov. 20	1406	387	25	769
Afflerbach, Joseph. (See Schoonover and Afflerbach.)						
Ager, Upton A. (See Friend, Jesse L., assignor.)						
Agnew, Robert M., *et al.* (See Rote, Charles V., assignor.)						
Agnew, William C., Creston, Ill. Harness-buckle	280,991	July 10	805	224	24	148
Ahearn, Thomas, Ottawa, Ontario, Canada. Fire-alarm telegraph	283,944	Aug. 28	1786	504	24	848
Ahearn, Thomas, Ottawa, Ontario, Canada. Electric time-detector	287,461	Oct. 30	2055	530	25	399
Ahern, John. *et al.* (See Lattimer, Francis, assignor.)						
Ahern, John A., *et al.* (See Lattimer, Francis, assignor.)						
Ahlert, John G. (See Ahlert, William F., J. P., and J. G.)						
Ahlert, Joseph P. (See Ahlert, William F., J. P., and J. G.)						
Ahlert, William F., J. P., and J. G., San Francisco, Cal. Velocipede	287,989	Nov. 6	257	73	25	552

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Ahrens, Christopher, Cincinnati, Ohio. Steam-generator	287,211	Oct. 23	1815	498	25	348
Aiken, Benjamin F., Jr., Millbury, assignor of one-half to C. W. Newhall, Jr., Worcester, Mass. Wire or metal cleaning bath	288,150	Nov. 6	439	.....	25	584
Aiken, George E. (See Parrish, William H., assignor.)						
Aiken, Walter, Franklin, N. H. Knitting-machine	279,902	June 26	1593	447	23	2417
Ainley, Thomas E., Golcar, near Huddersfield, county of York, England. Mechanism for feeding carding-machines	288,686	Nov. 20	1133	{311 312}	25	719
Ainslie, James and R., Brooklyn, N. Y. Spring bed-bottom	277,652	May 15	1405	378	23	1879
Ainslie, Robert. (See Ainslie, James and R.)						
Ainsworth, Robert H., Montgomery, assignor of two-thirds to J. T. Hess and G. Housel, Lycoming County, Pa. Cutter-head	276,323	Apr. 24	1879	521	23	1571
Aitken, Alexander. (See Wetherbee, Albert C., assignor.)						
Aitken, Robert W., assignor of one-half to Pitts Agricultural Works, Buffalo, N. Y. Brake for traction-engines	288,753	Nov. 20	1290	333	25	734
Aitken, Thomas, Pittston, Pa. Coal and rock drilling machine	289,595	Dec. 4	281	78	25	937
Alamagny & Oriol. (See Rafer, Ernest E. and E. G., assignors.)						
Alapaw, Charles H. (See Halley, Samuel D., assignor.)						
Albach, W. Harrison, Mansfield, Ohio. Fruit-evaporator	283,552	Aug. 21	1304	365	24	748
Albany Aniline and Chemical Works. (See Wolff, Justus, assignor.)						
Albee, George H., Neenah, Wis. Loose pulley	276,208	Apr. 24	1719	476	23	1545
Albert, Charles F., Philadelphia, Pa. Retainer for violin-bows	277,653	May 15	1406	{378 379}	23	1879
Albert, Henry, New Castle, Cal. Automatic safety-hatch for elevator-shafts	285,097	Sept. 18	1159	324	24	1116
Albertson, Albert, Jersey City, N. J., assignor to E., J., and G. Matthews, New York, N. Y. Apparatus for filling bottles with aerated beverages	282,481	Aug. 7	3	2	24	501
Albey, John, assignor to F. A. Wheeler & Co., Montclair, N. J. Automatic guide for paper-machines	270,718	Jan. 16	1108	317	23	232
Albien, Alexander, Mendota, Minn. Punching-machine	283,740	Aug. 28	1538	435	24	803
Albies, Adolph, Atchison, Kans. Fire-wood circular saw	273,425	Mar. 6	237	64	23	874
Albies, Adolph, Atchison, Kans. Combined harrow and stalk-cutter	280,551	July 3	257	69	24	46
Albin, George W. (See McVey and Albin.)						
Albrecht, Charles H. (See Crawley and Albrecht.)						
Albrecht, Henry G., and C. Nielson, Wahpeton, Dak. Ter. Pad-tree for harness	284,160	Sept. 4	1	1	24	905
Albright, Andrew. (See Fox, Edward, assignor.)						
Albright, Andrew. (See Page, Clark D., assignor.)						
Albright, Andrew. (See Williams, Samuel T., assignor.)						
Albright, James H., Laurelton, Pa. Cultivator	289,055	Nov. 27	1588	439	25	808
Albright, Jonas C. (See Shute and Albright.)						
Albright, William L., assignor of one-third to H. Varwig, Cincinnati, Ohio. Car-coupling	271,674	Feb. 6	106	28	23	458
Albro, Charles E., Philadelphia, Pa. Machine for cutting teeth of metallic gear-wheels	281,819	July 24	1875	512	24	345
Albro, Charles E., Philadelphia, Pa. Gear-cutting machine	281,820	July 24	1876	512	24	346
Albro Company, E. D. (See Norton, Levi D., assignor.)						
Alcott, John H., Thomaston, Conn. Hat-hook	273,698	Mar. 13	591	159	23	943
Alday, John W. C., Dayton, Ohio. Archery-target	275,111	Apr. 3	301	83	23	1278
Alden, Albert S., assignor to Holyoke Machine Company, Holyoke, Mass. Paper-calendering machine	282,031	July 31	2131	585	24	395
Alden, Dana K., *et al.* (See Mower, Edwin F., assignor.)						
Alden, Enoch H., Alexandria, Minn. Portable fence	273,001	Feb. 27	1797	503	23	776
Alden, George C., *et al.* (See Benner, Lorenzo D., assignor.)						
Alden, Oakley W., *et al.* (See Mower, Edwin F., assignor.)						
Alden, Samuel R. (See Laemmle, David, assignor.)						
Alderdyce, Thomas, Cambridge, Mich. Clothes-reel	271,675	Feb. 6	107	29	23	458
Alderman, Elbert E., Portville, N. Y. Bag-holder	277,654	May 15	1407	379	23	1879
Aldom, Edward, Brooklyn, N. Y. Spoon	275,112	Apr. 3	302	83	23	1278
Aldrich, Abbott L., Boston, Mass. Fire-escape	278,651	May 29	2654	726	23	2112
Aldrich, Andrew J., New York, N. Y. Strap-fastener	270,922	Jan. 23	1354	390	23	283
Aldrich, Frank E. (See Morrison, Caroline W., assignor.)						
Aldrich, Frank E., Boston, Mass. Machine for manufacturing rubber cloth. (Reissue)	10,325	May 15	1653	450	23	1924
Aldrich, Frank E., Boston, Mass. Rubber cloth or fabric	283,057	Aug. 14	697	.....	24	631
Aldrich, Hosea I., assignor of two-thirds to E. P. Drake and J. N. Lemon, St. Helena, Nebr. Eaves-gutter	280,111	June 26	1846	521	23	2461
Aldrich, James T., assignor to himself and W. H. Babcock, Norwich, Conn. Revolving fire-arm	283,185	Aug. 14	850	238	24	657
Aldrich, La Fayette, Milwaukee, Wis. Steam pipe and boiler covering	289,744	Dec. 4	468	132	25	968
Aldrich, Ralph W. E., Northampton, Mass. Fishing-float	270,358	Jan. 9	632	186	23	133
Aldrich, Wales, assignor to A. Hoover and W. Gamble, Miamisburg, Ohio. Grain-binder	274,692	Mar. 27	1874	522	23	1180
Aldrich, William H., and H. M. Lourie, Keokuk, Iowa. Windmill power-transmitter	272,014	Feb. 13	537	145	23	545
Aldrich, Wilson, Shortsville, N. Y. Cooling-rack for bent wooden bows	271,584	Feb. 6	1	1	23	441
Alexander, Alexander G., Detroit, Mich. Mechanism for operating discharge-valves	275,344	Apr. 10	621	167	23	1341
Alexander, Alexander G., Detroit, Mich., assignor to J. Gilliard, New York, N. Y. Valve	284,587	Sept. 11	526	149	24	999
Alexander, Eliza H., New York, N. Y. Braiding attachment for sewing-machines	281,225	July 17	1105	305	24	209
Alexander, George W., Reading, Pa. Lap-machine for hat-manufacturers	281,226	July 17	1106	305	24	209
Alexander, James H., Philadelphia, Pa. Spring-hinge	269,986	Jan. 2	191	56	23	40
Alexander, John, Toronto, Ontario, Canada. Refrigerator	285,199	Sept. 18	1281	360	24	1138
Alexander, John W. (See Brock, William H., assignor.)						
Alexander, John W. (See Butler, Mount, and Alexander.)						
Alexander, John W., New York, N. Y. Car-coupling	272,399	Feb. 20	1025	287	23	635
Alexander, Lawrence M., Cavins, S. C. Cotton-seed planter	276,742	May 1	276	70	23	1672
Alexander, Louis, New York, N. Y. Piano attachment	277,824	May 15	1598	437	23	1914
Alexander, Robert B. (See Christopher and Alexander.)						
Alexander, Samuel G., assignor of two-thirds to P. Whipple, East Saginaw, and L. A. Trump, Reed City, Mich. Mold for making articles of felt	281,329	July 17	1240	344	24	282
Alexander, William A., Mobile, Ala. Galvanic battery	275,797	Apr. 17	1226	335	23	1451
Alexandre, Arthur, Paris, France. Fastening for closing purses	284,791	Sept. 11	786	219	24	1043
Alford, Byron. (See Van Campen, Harry D., assignor.)						
Alford, Samuel N., Portland, Oreg. Agricultural boiler	285,541	Sept. 25	1687	475	24	1217
Alfson, Andrew, Columbus, Ohio. Combined port-lid and hawse-pipe	280,552	July 3	258	69	24	47
Alfson, Andrew, assignor to himself, E. W. Turner, and H. K. Cowan, Columbus, Ohio. Iron-clad vessel	277,972	May 22	1779	{485 486}	23	1951
Alger, Charles, Hudson, N. Y. Hot-blast stove for blast-furnaces	289,952	Dec. 11	719	203	25	1019
Alkin, Charles, Chicago, Ill. Draw-bar for cars	271,585	Feb. 6	2	1	23	441
Allaben, Orson M., Margarettville, N. Y. Ditching-machine	280,112	June 26	1847	521	23	2462
Allaben, Orson M., Margarettville, N. Y. Milk-can	284,792	Sept. 11	787	219	24	1043
Allaben, Orson M., Margarettville, N. Y. Saw	284,793	Sept. 11	788	219	24	1043

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Allaire, Charles B. (See McCarty and Johnson, assignors.)						
Allaire, Charles B., and C. M. Johnson, Peoria, Ill.; said Allaire assignor to said Johnson. Cash-carrier	286,571	Oct. 16	993	269	25	197
Alleman, Telesphore, Centreville, La. Plow	279,308	June 12	860	238	23	2280
Allen, Abraham J., Paskack, N. J. Thill-coupling for sleighs	277,099	May 8	742	195	23	1759
Allen, Albert A., Jackson, Mich. Folding bed	271,760	Feb. 6	209	58	23	476
Allen, Arthur M., Brooklyn, assignor, by mesne assignments, to L. L. Allen, New York, N. Y. Wheel	278,071	May 22	1894	519	23	1972
Allen, Charles A., Hillsdale, Mich. Bustle	280,553	July 3	259	69	24	47
Allen, Charles E., Putnam, Conn. Carpet-fastener	287,990	Nov. 6	259	74	25	552
Allen, Charles E., North Adams, Mass., assignor of one-half to I. J. Meagley, Binghamton, N. Y. Circuit for telephone apparatus	290,307	Dec. 18	1161	325 396	25	1107
Allen, Charles P., Denver, Col. Cut-off	271,761	Feb. 6	212	59	23	477
Allen, Charles W., *et al.* (See Holbrook, Byron, assignor.)						
Allen, Chauncey F., Waterbury, Conn. Corset	270,360	Jan. 9	635	187	23	134
Allen, Cotton H., St. Louis, Mo. Trace-hook	272,182	Feb. 13	741	205	23	580
Allen, Cotton H., St. Louis, Mo. Hame attachment	272,183	Feb. 13	742	205	23	580
Allen, Cotton H., St. Louis, Mo. Device for securing straps to buckles, &c	285,200	Sept. 18	1283	361	24	1139
Allen, E. F. (See Baldwin, Charles W., assignor.)						
Allen, Edgar W., Rock Island, Ill. Horse-blanket	277,184	May 8	850	225	23	1777
Allen, Edwin F., Providence, R. I. Saw-guide	279,515	June 19	1137	315	23	2331
Allen, Edwin T. (See Rowe, Cyrenius, assignor.)						
Allen, Emma, Freeport, Ill. Retouching-machine	270,923	Jan. 23	1355	391	23	283
Allen, Ethan A. (See Woodbury, Clark, assignor.)						
Allen, Francis M., Knoxville, Tenn. Cultivator	273,426	Mar. 6	238	64	23	875
Allen, Frank H., Norwich, Conn. Revolving fire-arm	273,335	Mar. 6	122	35	23	855
Allen, Frederick E., North Grafton, Mass. Floor-clamp	280,113	June 26	1849	521	23	2462
Allen, George, New-Berne, N. C. Cultivator	269,987	Jan. 2	193	56	23	40
Allen, George D., Brooklyn, N. Y. Electric-arc lamp	273,336	Mar. 6	124	35	23	855
Allen, George H., Ayer, assignor to G. Draper & Sons, Hopedale, Mass. Spindle for spinning-machines	288,912	Nov. 20	1407	387	25	709
Allen, George H., Ayer, assignor to G. Draper & Sons, Hopedale, Mass. Bobbin	289,794	Dec. 11	527	147	25	985
Allen, George L., Worcester, Mass. Apparatus for extracting dyes	274,891	Apr. 3	1	1	23	1227
Allen, George S., and R. C. Ellrich, Southington, Conn. Screw-driver	289,056	Nov. 27	1590	440	25	808
Allen, Gerald. (See Johnson and Wagner, assignors.)						
Allen, Gerard B. (See Furney, Elliott E., assignor.)						
Allen, Henry D. P., Brooklyn, N. Y. Stilt	279,071	June 5	561	154	23	2219
Allen, Horace R., Indianapolis, Ind. Chill	285,779	Oct. 2	2	1	25	3
Allen, Horace R., Indianapolis, Ind. Pulley	285,780	Oct. 2	2	1	25	3
Allen, James, Alliston, Ontario, Canada. Fifth-wheel for vehicles	273,427	Mar. 6	239	64	23	875
Allen, James, and W. R. Musser, Lynchburg, Va. Locomotive head-light	273,428	Mar. 6	240	65	23	875
Allen, James A., Philadelphia, Pa. Branding-tool	286,366	Oct. 9	742	199	25	145
Allen, James H., Wenona, Ill. Cultivator	271,586	Feb. 6	3	1	23	441
Allen, James H., Wenona, Ill. Cultivator	288,292	Nov. 13	622	170	25	624
Allen, James M. (See Rogers and Allen.)						
Allen, James W., St. Louis, Mo. Combination-lock	282,691	Aug. 7	260	75	24	544
Allen, James W., West Newton, Ind. Cooking-stove	286,248	Oct. 9	576	158	25	116
Allen, John, assignor of one-half to R. R. Smith, New Hartford, Conn. Band-cutter	287,212	Oct. 23	1817	498	25	348
Allen, John F., Brooklyn, N. Y. Riveting-machine	289,369	Dec. 4	1	1	25	887
Allen, John M., Washington Court-House, Ohio. Seed-drill	281,602	July 17	1578	431	24	288
Allen, Joseph B., Springfield, Ill. Electric-arc lamp	275,345	Apr. 10	622	167	23	1341
Allen, Leonora L. (See Allen, Arthur M., assignor.)						
Allen, Lester H., assignor, by mesne assignments, to himself and A. I. Nute, Farmington, N. H. Machinery for finishing boot-legs, &c	284,265	Sept. 4	134	38	24	927
Allen, Marshall J., New York, N. Y., and W. E. Bradley, Frankfort, Ky. Making whisky	287,213	Oct. 23	1818	498	25	349
Allen, Myrick R., Lewisburg, Tenn. Car-coupling	288,754	Nov. 20	1221	334	25	734
Allen, Nathan R., Jr., *et al.* (See Holbrook, Byron, assignor.)						
Allen, Nathaniel, East Boston, Mass. Rudder-holding device for ferry-boats	286,367	Oct. 9	743	199	25	145
Allen, Norman, Rockaway Beach, N. Y. Railway-signal	272,613	Feb. 20	1300	362	23	682
Allen, Oscar, Mount Morris, N. Y. Spoke tenoning and tapering machine	279,117	June 12	644	176	23	2243
Allen, Percy R., Victoria Works, Belvedere Road, county of Surrey, England. Electric-arc lamp	270,361	Jan. 9	636	187 188	23	134
Allen, Percy R., Southwark, county of Surrey, England. Coupling for electrical conductors	273,429	Mar. 6	241	65	23	875
Allen, Philip F., London, England. Stud for shirts, &c	288,293	Nov. 13	623	170	25	624
Allen, Richard, assignor of one-half to J. F. Thompson, Fredericksburg, Va. Key-fastener	287,991	Nov. 6	260	74	25	552
Allen, Richard N., Cleveland, Ohio. Car-wheel. (Reissue)	10,306	Apr. 10	1208	331	23	1440
Allen, Robert W., Nelly's Ford, Va. Hilling and fertilizing machine	274,542	Mar. 27	1695	470 471	23	1148
Allen, Samuel F., assignor of two-thirds to T. R. Freeman and J. S. Toppan, Chicago, Ill. Mechanism for placing torpedoes on railway-tracks	286,249	Oct. 9	577	158	25	116
Allen, Samuel L., Cinnaminson, N. J. Sheet-metal standard for cultivator-teeth	280,114	June 26	1849	521	23	2462
Allen, Samuel L., Cinnaminson, N. J. Cultivator	281,426	July 17	1357	374	24	251
Allen, Samuel V., Freeport, Ill. Photographic camera	274,079	Mar. 13	1068	294	23	1025
Allen, Silas J., and J. B. Richardson, Providence, R. I.; said Allen assignor to said Richardson. Sleeve or collar button	288,964	Nov. 27	1475	409	25	789
Allen, Silas J., assignor to J. B. Richardson, Providence, R. I. Detachable button or stud	289,370	Dec. 4	2	1	25	887
Allen, Stephen M., Duxbury, Mass. Material for roofing purposes	278,481	May 29	2447	.....	23	2076
Allen, Stephen M., Duxbury, Mass. Pipe and conduit for conveying liquids, &c	284,794	Sept. 11	788	220	24	1043
Allen, Theodore E., New York, N. Y. Metallic wrapper	290,831	Dec. 25	1802	514	25	1236
Allen, Walter B., Andover, Mass. Powder-duster	277,655	May 15	1407	379	23	1879
Allen, William, assignor of one-half to A. M. Johnston, Rockford, Ill. Starch-table	275,318	Apr. 3	555	151	23	1320
Allen, William, assignor of one-half to A. M. Johnston, Rockford, Ill. Starch-washing machine	275,319	Apr. 3	556	152	23	1321
Allen, William, assignor of one-half to A. M. Johnston, Rockford, Ill. Starch-separator	275,320	Apr. 3	558	152	23	1321
Allen, William A., Jersey City, N. J. Drying house or kiln	270,359	Jan. 9	633	186 187	23	134
Allen, William B., Orleans, N. Y. Domestic steamer	272,015	Feb. 13	538	145	23	545
Allen, William H., Brooklyn, N. Y. Die for stamping and embossing boxes	279,118	June 12	646	176 177	23	2244
Alles, Henry. (See Bach, John C., assignor.)						
Alley, John H. (See Peare, George R., assignor.)						
Allfree, James B., Cumberland, Md. Roller grinding-mill	280,992	July 10	805	224	24	148
Allfree, James B., Cumberland, Md. Balanced slide-valve	280,993	July 10	807	224	24	149
Allinder, William L., Minneapolis, Minn. Fire-escape	290,197	Dec. 18	1019	287	25	1083

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Alling, A. H. & C. B. (See Otis, Samuel L., assignor.)						
Alling, Charles B., Derby, Conn. Knit stocking	285,201	Sept. 18	1284	361	24	1139
Alling, Millicent B. (See Barnard, Henry H., assignor.)						
Allis, Abram Q., New York, N. Y. Spring bed-bottom	286,166	Oct. 9	473	131	25	99
Allis, Charles F., Erie, Pa. Fire-kindler attachment for stove and grates	287,402	Oct. 30	2058	559	25	399
Allis, Thomas V., New York, N. Y. Metallic-strip blank for barbed fencing	272,933	Feb. 27	1723	481	23	763
Allis, Thomas V., New York, N. Y. Manufacture of barbed metallic fencing	272,934	Feb. 27	1723	481	23	763
Allis, Thomas V., New York, N. Y. Manufacture of barbed metallic fencing	272,935	Feb. 27	1725	482	23	763
Allis, Thomas V., New York, N. Y. Metallic barbed fencing	272,936	Feb. 27	1726	482	23	763
Allison, Asa H., Knightstown, Ind. Straw-stacker	277,400	May 8	1094	294	23	1821
Allison, Asa H., Knightstown, Ind. Straw-stacker	289,204	Nov. 27	1767	490	25	840
Allison Brothers Company. (See Allison, Oscar W., assignor.)						
Allison, L. Sandidge, H. John, and T. E. Evans, Hazleton, Pa. Steam-actuated valve	274,247	Mar. 20	1292	356	23	1072
Allison, Oscar W., assignor to Allison Brothers Company, Rochester, N. Y. Cigarette-machine	290,166	Dec. 11	974	275	25	1067
Allmon, John W., J. H. Wommack, Marshfield, and W. M. Highfill, Fair Grove, Mo. Cider-mill	290,657	Dec. 25	1631	449	25	1195
Allton, Hiram, assignor of one-half to J. E. Hildreth, Wilmington, Del. Lubricator	275,971	Apr. 17	1424	392 393	23	1487
Allyn, John H., Redding, Iowa. Check-row corn-planter	271,676	Feb. 6	108	29	23	458
Allyn, Richard J. (See Brainard, Marvin N., assignor.)						
Almon, John M. (See Kennedy, Joseph B., assignor.)						
Almond, Thomas R., Brooklyn, N. Y. Polishing-tool	289,879	Dec. 11	635	177	25	1004
Alpaugh, John K., Kansas City, Mo. Soap compound	269,820	Jan. 2	1	.....	23	3
Alpaugh, John K., Decatur, Ill. Soap-powder and process of making the same	282,032	July 31	2133	.....	24	395
Alpress, Edward A., New Britain, Conn. Making screw-eyes	270,570	Jan. 16	919	265	23	197
Alpress, Edward A., assignor to Landers, Frary & Clark, New Britain, Conn. Machine for bending screw hooks and eyes	270,362	Jan. 9	637	188	23	135
Alrich, William A., Chatham, Va. Ripping attachment for sewing-machines	281,330	July 17	1241	344	24	232
Alshouse, Cyrus S. (See McCready and Alshouse.)						
Alshuler, Moses, Mattoon, Ill. Tag-fastener	284,706	Sept. 11	674	190	24	1024
Alsing, Johan R., Hoboken, N. J. Apparatus for pulverizing porcelain-paste. (Reissue)	10,382	Sept. 18	1480	417	24	1173
Altenberg, John E. (See Paxon, Amos B., assignor.)						
Altenbrand, Henry, Brooklyn, N. Y., assignor to L. G. Fisher, Jr., Chicago, Ill. Malt-kiln	271,184	Jan. 23	1681	485	23	336
Alters, Joseph K., assignor of one-half to M. Ware, Maiden Rock, Wis. Button-fastening	271,185	Jan. 23	1682	485	23	336
Altham, George J., Swansea, Mass. Device for converting motion	273,699	Mar. 13	592	150	23	943
Altheide, Joseph H., Quincy, Ill. Camera-stand	280,776	July 10	555	155	24	105
Altman, Charles, New York, N. Y. Fur-sack fastening	278,072	May 22	1897	519	23	1972
Altmann, Frank G. (See Pommer, Frederick, assignor.)						
Altmann, Moritz, Camden, N. J. Suspenders	288,755	Nov. 20	1223	334	25	734
Altmeyer, Jacob, Benwood, W. Va. Furnace	271,393	Jan. 30	1942	502	23	391
Alton, George H., assignor to Belle Patent Button Fastening Company, Lynn, Mass. Button-setting instrument	283,453	Aug. 21	1193	335	24	728
Alton, George H., Lynn, Mass., assignor to Belle Patent Button Fastener Company, Kennebunk, Me. Machine for attaching buttons	284,111	Aug. 28	2011	560	24	886
Alverson, James W., Union Springs, N. Y. Fertilizer-distributer	273,002	Feb. 27	1798	503	23	776
Alves, John, Dunedin, New Zealand. Amalgamator	273,003	Feb. 27	1800	504	23	776
Alves, John, Dunedin, New Zealand. Apparatus for amalgamating and concentrating ores	273,662	Mar. 6	537	144	23	926
Amazeen, Christopher, Boston, Mass. Leather-skiving machine	273,931	Mar. 13	892	244	23	994
Amborn, George, Jr., and E. D. Chaplin, Pawtucket, R. I. Calipers	277,973	May 22	1780	486	23	1951
Amborn, George, Jr., and E. D. Chaplin, Pawtucket, R. I. Hand-vise	282,033	July 31	2133	586	24	395
Ambrasius, Caroline, *et al.* (See Kleinschmidt, Charles, assignor.)						
Ambrose, Thomas H., Port Hope, Ontario, Canada. Car-coupling	279,307	June 12	859	238	23	2280
Ambuehl, Nicholaus, Lone Grove, Fayette County, Ill. Car-coupling	271,394	Jan. 30	1944	562	23	391
Ambuhl, Jacob, Bridgeport, Conn., assignor to S. J. Gordon, New York, N. Y. Coloring and hardening clay	274,543	Mar. 27	1697	.....	23	1148
Amelotte, Edward, Spencer, Mass. Bolt-cutter	285,868	Oct. 2	110	33	25	22
American Automatic Organ Company. (See Arno, Oliver H., assignor.) (Reissue.)						
American Bag Company. (See Sawyer, Benjamin F., assignor.)						
American Bell Telephone Company. (See Anders, George L., assignor.)						
American Bell Telephone Company. (See Carty, John J., assignor.)						
American Bell Telephone Company. (See Coolidge, Ellery C., assignor.)						
American Bell Telephone Company. (See Flint, Edward, Jr., assignor.)						
American Bell Telephone Company. (See Jacques, William W., assignor.)						
American Bell Telephone Company. (See Loring and Pierce, assignors.)						
American Bell Telephone Company. (See Watson, Thomas A., assignor.)						
American Bell Telephone Company. (See Wilson, Edward L., assignor.)						
American Bell Telephone Company. (See Woelk, Edward A., assignor.)						
American Brake Company. (See Leigh, Edward B., assignor.)						
American Brake Company. (See Poor, George H., assignor.)						
American Brake Company. (See Schiller, Charles J., assignor.)						
American Buttonhole, Overseaming and Sewing Machine Company. (See Rominger, George S., assignor.)						
American Car Wheel Grinding Company. (See McIntyre, Augustin W., assignor.)						
American Chemical Company. (See Fraech, Herman, assignor.)						
American Cloth Workers Company. (See Hebdon, William, assignor.)						
American Coal Tar Color Company of New York. (See Kendall, Edward D., assignor.)						
American Diamond Rock Boring Company. (See Douglass, Samuel W., assignor.)						
American Diamond Rock Boring Company. (See Waring, John B., assignor.)						
American Electric Company. (See Houston, Edwin J., assignor.)						
American Electric Company. (See Thomson, Elihu, assignor.)						
American Electric Storage Company. (See Keith, Nathaniel S., assignor.)						
American Electrical Works. (See Lytle, Henry B., assignor.)						
American Electro Gas Telephone Company. (See Rogers, James H., assignor.)						
American Electrophore Company. (See Koyl, Charles H., assignor.)						
American Fence Machine Company. (See Ash and Fisk, assignors.)						
American Filter Company. (See Smart, James S., assignor.)						
American Fire Hose Manufacturing Company. (See Callahan, Cornelius, assignor.)						
American Gas Saving Company. (See De Palos, James S., assignor.)						
American Insulator Company. (See Oakman, Samuel, assignor.)						
American Iridium Company. (See Dudley and Rapp, assignors.)						
American Iridium Company. (See Holland, John, assignor.)						
American Iron Post and Construction Company. (See Dow, Lorenzo, assignor.) (Reissue.)						
American Lubricating Company, of New Jersey. (See Howard and Chance, assignors.)						

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
American Optical Company. (See Wells and Preux, assignors.)						
American Package Company. (See Fancher, Alton H., assignor.)						
American Postal Telegraph Company. (See Lyon, Henry, assignor.)						
American Quick Transit Steamship Company. (See Bliven, Alonzo P., assignor.)						
American Railway Signal Company. (See Hadden, William, assignor.)						
American Railway Signal Company. (See Tisdale, Charles D., assignor.)						
American Saw Company. (See Risdon, William B., assignor.)						
American Sectional Electric Underground Company. (See Goebel, Christian H., assignor.)						
American Seed Oil Company. (See Massey, Albert P., assignor.)						
American Ship Windlass Company. (See Winter, Herman, assignor.)						
American Ship Windlass Company. (See Winter and Manton, assignors.)						
American Spring Car Motor Company. (See Jiencke, George, assignor.)						
American Staple Sewing Machine Company. (See Brown, Charles, assignor.)						
American Steam Gauge Company. (See Stanek, Ladislav, assignor.)						
American Union Electric Company. (See Hauss, McNamara, and Zerbe, assignors.)						
American Watch Company. (See Church, Duane H., assignor.)						
American Writing Machine Company. (See Yost, George W. N., assignor.)						
Ames, Charles L., and A. H. Frost, Chicago, Ill. Device for fastening springs to bed-slats.	276,548	May 1	2	1	23	1627
Ames, David J., Austin, assignor of one-half to McLaughlin, Sheldon & Co., Owatonna, Minn. Transmitting reciprocal to rotary motion	285 943	Oct. 2	212	60	25	40
Ames, Hugh O., New Orleans, La. Evaporating-pan	276,324	Apr. 24	1880	522	23	1571
Ames, Josiah, assignor to F. J. Knapp, East Saginaw, Mich. Sled	281,171	July 10	1022	260	24	187
Ames, Samuel R., assignor of one-half to F. W. Steedman, Louisville, Ky. Whiffletree	280,454	Aug. 21	1194	335	24	728
Ames, William C., Attleborough, Mass. Button	287,992	Nov. 6	261	74	25	553
Amesbury, George W., Philadelphia, Pa. Holder for mortising-chisels	275,346	Apr. 10	625	167	23	1341
Amet, Edward H., La Grange, Ill. Electric-arc lamp	271,395	Jan. 30	1945	562 563	23	391
Amherst Hydraulic Motor Company. (See Benham and Richardson, assignors.)						
Amick, Myron J., assignor to Pacific Gas Governor Association, San Francisco, Cal. Automatic gas-regulator	290,727	Dec. 25	1729	477	25	1213
Amick, Samuel, Pittsborough, Ind. Carpet-stretcher	290,308	Dec. 18	1163	326	25	1107
Amidon, Charles. (See Lingley, John H., assignor.)						
Amidon, Charles H., Buffalo, N. Y. Bit-stock	283,844	Aug. 28	1663	469	24	825
Amies, Joseph H. (See Colby, John N., assignor.)						
Ammerman, William M., Oakland, Ill. Mechanical movement	290,383	Dec. 18	1257	353	25	1124
Amrock, Edward S. (See Larkin, Patrick, assignor.)						
Amrock, Edward S., Waltham, Mass. Combined settee and lounge	271,762	Feb. 6	213	59	23	477
Amrock, Edward S., Waltham, Mass. Convertible settee, cot, and tent	287,078	Oct. 23	1645	452	25	317
Ams, Max, and V. Litzelmann, New York, N. Y. Extracting glycerine from fatty matter.	272,510	Feb. 20	1169	.....	23	659
Amundson, Hans, and A. Olson, St. Charles, Minn. Grain-binder	279,309	June 12	860	239 240	23	2280
Amyot, Jean B., assignor of one-half to L. N. Carrier, Quebec, Quebec, Canada. Preparation of asbestus and articles or goods made therefrom	281,951	July 24	2033	.....	24	373
Ancel, Albert. (See Thiollier, Antonin, assignor.)						
Anden, Isaiah A., *et al.* (See Nyce and Hunsicker, assignors.)						
Anderberg, Erland, Mount Vernon, N. Y. String-bridge for guitars	282,147	July 31	2297	631	24	422
Anders, George L., assignor to American Bell Telephone Company, Boston, Mass. Automatic indicator switch for telephone systems	280,707	July 3	442	126	24	79
Anders, George L., assignor to American Bell Telephone Company, Boston, Mass. Telephonic system	287,356	Oct. 23	1993	543	25	380
Andersen, Oluf S., and T. T. A. Hansen, Copenhagen, Denmark. Centrifugal machine	272,185	Feb. 13	744	205	23	580
Andersen, Peter, Fort Wayne, Ind. End-gate for wagons	270,363	Jan. 9	639	189	23	135
Anderson, A. G., *et al.* (See Cole, Wesley, assignor.)						
Anderson, Adolph V., Virginia City, Nev. Stock-car	269,988	Jan. 2	194	56	23	40
Anderson, Alfred, Paris, France. Automatic advertising device	272,184	Feb. 13	743	205	23	580
Anderson, Andrew, Elizabeth, N. J. Blacksmith's hammer	273,793	Mar. 13	719	195	23	966
Anderson, Axel L. (See McDonnell and Anderson.)						
Anderson, Charles, assignor to South Bend Iron Works, South Bend, Ind. Plow	277,185	May 8	851	226	23	1777
Anderson, Charles, and J. Oliver, assignors to South Bend Iron Works, South Bend, Ind. Plow	275,744	Apr. 10	1139	312	23	1429
Anderson, Charles, and J. Oliver, assignors to South Bend Iron Works, South Bend, Ind. Plow	275,745	Apr. 10	1141	313	23	1429
Anderson, Charles, and J. Oliver, assignors to South Bend Iron Works, South Bend, Ind. Plow	275,972	Apr. 17	1425	393	23	1487
Anderson, Charles, and J. Oliver, assignors to South Bend Iron Works, South Bend, Ind. Plow	280,777	July 10	556	155 156	24	105
Anderson, Charles, Ludlow, Ky., assignor to Post & Co., Cincinnati, Ohio. Signal for locomotive head-lights	287,079	Oct. 23	1646	452	25	318
Anderson, Charles G., Columbus, assignor to N. Joseph, Zanesville, and J. McVay, Columbus, Ohio. Chain	271,186	Jan. 23	1682	485	23	336
Anderson, Charles G., Columbus, Ohio, assignor to N. Josephs and J. McVay. Chain	280,832	Dec. 25	1863	514	25	1236
Anderson, David H., Butte City, Mont. Ter. Machine for concentrating and amalgamating ores	272,614	Feb. 20	1301	362 363	23	682
Anderson, David H., assignor of one-half to W. H. Young and H. Rondebush, Butte City, Mont. Ter. Concentrator	285,098	Sept. 18	1160	324 325	24	1117
Anderson, E. W., *et al.* (See Brust, Albert G., assignor.)						
Anderson, Eli, Carpentersville, Ind. Straw-stacker	275,453	Apr. 10	773	207	23	1366
Anderson, Eliza M. C., New York, N. Y. Green-corn cutter	287,060	Oct. 23	1647	452	25	318
Anderson, Euclid, Peekskill, N. Y. Mechanical movement	271,395	Jan. 30	1914	526	23	367
Anderson, Frederick L. C., New York, N. Y. Cooking stove or range	273,004	Feb. 27	1802	504	23	776
Anderson, Henry B., St. Louis, Mo. Bottle-stopper	279,210	June 12	863	240	23	2280
Anderson, Homer, Peekskill, N. Y. Telegraph-key	288,609	Nov. 20	1033	285	25	703
Anderson, Homer B. (See Dutot and Anderson.)						
Anderson, James. (See Jowott, Thomas L., assignor.)						
Anderson, James C. (See Meagher and Anderson.)						
Anderson, James C., Highland Park, Ill. Ornamentation of brick, tile, &c	271,587	Feb. 6	4	.....	23	441
Anderson, James C., Highland Park, Ill. Clay reducer and disintegrator	271,588	Feb. 6	5	2	23	441
Anderson, James C., Highland Park, Ill. Clay reducer and disintegrator	271,589	Feb. 6	6	2	23	441
Anderson, James C., Highland Park, Ill. Ornamentation of brick, tile, &c	271,590	Feb. 6	7	.....	23	442
Anderson, James C., Highland Park, Ill. Preventing saltpeter-exudations upon facing-brick	271,591	Feb. 6	8	2	23	442
Anderson, James C., Highland Park, Ill. Brick and tile machine	276,749	May 1	5	2	23	1627
Anderson, James C., Highland Park, Ill. Brick-machine	276,991	May 8	599	157	23	1735
Anderson, James C., Highland Park, Ill. Brick-machine	276,992	May 8	602	158	23	1735

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Anderson, James C., Highland Park, Ill. Brick-machine	283,366	Aug. 21	1091	307	24	709
Anderson, John P., Philadelphia, Pa. Cocoanut sheller	286,368	Oct. 9	744	199	25	145
Anderson, John W., South Bend, Ind. Vehicle-seat	288,610	Nov. 20	1035	285	25	703
Anderson, John W., South Bend, Ind. Axle-skein	290,511	Dec. 18	1444	399	25	1156
Anderson, Milton W. (See Snapp, James W., assignor.)						
Anderson, Nils P., Moline, Ill. Road-cart	288,965	Nov. 27	1476	409	25	789
Anderson, Robert C., Bayonne, N. J. Machine for forming the joints between the heads and bodies of cans	269,908	Jan. 2	101	30	23	21
Anderson, Robert C., Bayonne, N. J. Box-trimming machine	277,100	May 8	743	196	23	1759
Anderson, Robert C., London, England. Galvanic battery	289,795	Dec. 11	528	.....	25	985
Anderson, Rufus, Peekskill, N. Y. Automatic telegraph	289,205	Nov. 27	1769	490	25	841
Anderson, Samuel J., Cazenovia, N. Y. Fire-escape	270,628	June 19	1266	351	23	2353
Anderson, Sven, Humboldt, Nebr. Harrow	282,092	Aug. 7	262	75	24	544
Anderson, Thomas B., Allegheny, Pa. Brick-kiln	290,512	Dec. 18	1444	399	25	1156
Anderson, Thomas N. (See Moore and Anderson.)						
Anderson, William G., Boston, Mass. Making window-screens	279,851	June 19	1524	426	23	2398
Anderson, William G., Boston, Mass. Window-screen	284,588	Sept. 11	526	149	24	999
Anderson, William H., assignor of one-half to I. C. Lindley, Elizabethtown, Ind. Straw-stacker	285,339	Sept. 18	1436	406	24	1167
Anderson, William S., Duncansby, Miss. Cotton-gin rib	278,073	May 22	1897	520	23	1972
Anderson, William T., Rock Hill, S. C. Vise	287,993	Nov. 6	261	74	25	553
Anderson, William W., New York, N. Y. Pivot-pin for clasps	287,605	Oct. 30	2330	629	25	452
Anderton, Adaline W. (See Whitcomb, Aaron J., assignor.)						
André, Alexandre, Fils, Paris, France. Purification of mineral oils	284,589	Sept. 11	527	149	24	999
Andreae, John M., Brockton, Mass. Device for frying cakes	280,778	July 10	558	156	24	105
Andrew, Charles, Cincinnati, Ohio. Automatic crayon-holder	276,128	Apr. 17	1621	446	23	1520
Andrew, Henry H., Sheffield, county of York, England. Reheating and reducing rods of metal	276,743	May 1	277	70	23	1672
Andrew, Richard E., Shepherdstown, W. Va. Fire-escape	285,542	Sept. 25	1689	476	24	1218
Andrews, Abiel W. K., Binghamton, and C. R. Teed, Syracuse, N. Y. Electro-therapeutic apparatus	282,431	July 31	2659	729, 730	24	484
Andrews, Caleb M., Providence, R. I. Horse-blanket	277,867	May 22	1660	453	23	1931
Andrews, Edward W., assignor to G. M. Ingalls, Detroit, Mich. Mechanism for reefing sails	282,599	Aug. 7	150	45	24	527
Andrews, Emanuel, Williamsport, Pa. Bevel attachment for handsaws	283,319	Aug. 14	1015	284	24	689
Andrews, Emanuel, Williamsport, Pa. Apparatus for tempering and flattening sheet-metal plates	284,938	Sept. 11	954	268	24	1074
Andrews, Emery, Kennebunk, Me. Heel-stiffener for boots or shoes	276,550	May 1	7	3	23	1628
Andrews, George, Bellows Falls, Vt. Device for roughening grindstones	272,615	Feb. 20	1304	363	23	682
Andrews, Ichabod, Dundee, N. Y. Car-coupling	273,700	Mar. 13	593	159	23	943
Andrews, James S., Kalamazoo, Mich. Wheel-cultivator	280,436	July 3	125	33	24	23
Andrews, Joseph H., *et al.* (See Andrews, Oscar, assignor.)						
Andrews, Oscar, assignor of two-thirds to J. H. Andrews, Gloucester, and G. Tucker, Rockport, Mass. Preparing salt fish for market	275,973	Apr. 17	1427	394	23	1488
Andrews, Wallace C., *et al.* (See Rumble, William, assignor.)						
Andrews, William H., assignor to Mallory, Wheeler & Co., New Haven, Conn. Sliding-door pull	276,325	Apr. 24	1880	522	23	1571
Andrus, George S., Columbia, Colo. Sampling apparatus	280,994	July 10	807	225	24	149
Andrus, William, Keokuk, Iowa. Machine for pulverizing clay for making brick	276,147	Apr. 24	1647	455	23	1533
Andrus, William, Keokuk, Iowa. Clay-pulverizer	286,520	Oct. 9	924	249	25	178
Andrus, William, Keokuk, Iowa. Brick-machine	286,892	Oct. 16	1399	384, 385	25	267
Andrus, William W. (See St. John, George H., assignor.)						
Angel, Joseph R., assignor to L. F. and E. E. Camp, Camptown, Pa. Wagon-jack	279,903	June 26	1594	447	23	2417
Angell, Albert, East Orange, N. J., assignor to C. F. A. Hinrichs, Brooklyn, N. Y. Student's lamp	270,719	Jan. 16	1109	317	23	232
Angell, Edward F., and A. Spear, Chicago, Ill. Clamp for sewing-machine attachments	279,516	June 19	1138	315	23	2331
Angell, Horace B., San Francisco, Cal. Dredger-chain	278,482	May 29	2448	668	23	2076
Angell, Lucius C. (See Weaver, Albert S., assignor.)						
Angell, Ransom S., Moorhead, Minn. Traction-engine	282,944	Aug. 14	559	159	24	607
Angell, Russell R., assignor of two-thirds to C. J. Blakely and L. N. Williamson, Janesville, Wis. Eccentric	272,511	Feb. 20	1170	327	23	659
Anger & Brother, John A. (See Anger, Louis J., assignor.)						
Anger, Louis J., assignor to J. A. Anger & Brother, New York, N. Y. Dough-cutting machine	274,892	Apr. 3	3	1	23	1227
Angevine, William, *et al.* (See Blass, Talmadge, assignor.)						
Angier, Albert W., San Francisco, Cal. Device for fastening paper bags	286,758	Oct. 16	1232	333	25	238
Angular Steel Nail Company. (See Taylor, William, assignor.)						
Angus, Robert B., Pottsville, assignor of one-half to C. W. Brower, Tremont, Pa. Steam-actuated valve	275,746	Apr. 10	1142	313	23	1429
Ankelen, Gustav, St. Louis, Mo. Index-tab for books, &c	274,248	Mar. 20	1293	356	23	1072
Ankrom, James A., *et al.* (See Kennedy, Thomas H., assignor.)						
Annan, Charles F., Boston, Mass. Paper-bag machine	276,744	May 1	278	70, 71	23	1672
Annan, Charles F., Boston, Mass. Railway-car	279,311	June 12	864	241	23	2280
Annan, Charles F., Boston, Mass. Method of making envelopes and mechanism therefor	283,945	Aug. 28	1787	505, 506	24	848
Annibale, Allevi, Chicago, Ill. Force-pump	272,616	Feb. 20	1305	364	23	683
Annin, Joseph. (See Moore, John R., assignor.)						
Ansley, Alanson, Geneva, N. Y. Potato-digger	272,845	Feb. 27	1613	451	23	745
Anson, Silas, Bellevue, Mich. Barrel-heater	271,763	Feb. 6	214	59	23	477
Ansonia Brass and Copper Company. (See Cowles, Alfred A., assignor.)						
Ansonia Brass and Copper Company. (See Gilpin, Joseph F., assignor.)						
Ansonia Brass and Copper Company. (See Hull and Hoadley, assignors.)						
Ansonia Brass and Copper Company. (See Hull and Truesdell, assignors.)						
Ansonia Rubber Company. (See Smith, John J. C., assignor.)						
Ansorge, Wenzel R., Texarkana, Ark. Obstruction-indicator for boats	275,974	Apr. 17	1428	394	23	1488
Ansot, Henry, New York, N. Y. Electric-arc lamp	279,517	June 19	1139	315	23	2331
Anthony & Co., E. & H. T. (See Anthony, Henry T., assignor.)						
Anthony & Co., E. & H. T. (See Barker, Erastus B., assignor.)						
Anthony & Co., E. & H. T. (See Lewis, William H., assignor.)						
Anthony & Co., E. & H. T. (See Schmid, William, assignor.)						
Anthony, Edgar W., Boston, Mass. Stove	271,013	Jan. 23	1471	423	23	301
Anthony, Edwyn, New York, N. Y. Printing-press	273,430	Mar. 6	243	66	23	876
Anthony, Edwyn, New York, N. Y. Printing	273,431	Mar. 6	247	67	23	876

INDEX OF PATENTS ISSUED FROM THE

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Anthony, Edwyn, New York, N. Y. Printing-machine	275,113	Apr. 3	302	83, 84	23	1278
Anthony, Frank H., Brooklyn, assignor to W. M. Ducker, New York, N. Y. Fire-escape ladder	288,756	Nov. 20	1224	334	25	735
Anthony, Henry T., assignor to E. & H. T. Anthony & Co., New York, N. Y. Case for transporting photographic plates	283,455	Aug. 21	1195	336	24	728
Anthony, James Y. (See Evans, William K., assignor.)						
Anthony, John R., Sherman City, Kans. Fertilizer-distributer	278,483	May 29	2449	668	23	2077
Anthony, Orren A., Mayfield, N. Y. Stump-pulling machine	287,606	Oct. 30	2331	629	25	452
Anthony, Wendell P. (See Handy and Anthony.)						
Anthony, Wendell P., Providence, R. I. Gearing for velocipedes	277,974	May 22	1781	486	23	1951
Antrim, B. Jay, Philadelphia, Pa. Fire and burglar alarm	278,386	May 29	2333	638	23	2056
Anunsen, Kittil, Winchester, Wis. Harrow	274,249	Mar. 20	1294	356	23	1072
Anunsen, Kittil, Winchester, Wis. Harvester-reel	276,148	Apr. 24	1648	455	23	1533
Anunsen, Kittil, Winchester, Wis. Pitman for harvesters	276,149	Apr. 24	1648	455	23	1533
Appel, Daniel, and R. G. McAuley, Cleveland, Ohio. Lubricator	290,728	Dec. 25	1730	478	25	1213
Appell, Charles E., Harrisburg, Tex. Car-coupling	279,312	June 12	866	241	23	2281
Appelquist, Frederick. (See Hanson, Charles, assignor.)						
Apple, G. W., *et al.* (See Cochran, William J., assignor.)						
Apple, J. Bernard. (See Clay, Henry, assignor.)						
Apple, Titus H., Evansburg, Pa. Scraper and elevator	289,331	Nov. 27	1918	533	25	870
Appleberg, John T., Baltimore, Md. Advertising match-box	283,741	Aug. 28	1539	435	24	803
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Grain-binder	275,114	Apr. 3	304	85, 86	23	1278
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Grain-binder	276,519	Apr. 24	2114	587, 588	23	1612
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Twine-box for grain-binders	290,658	Dec. 25	1632	449	25	1195
Applegate, Benjamin F., assignor to himself and B. F. Lagel, New Albany, Ind. Thrashing-machine	282,693	Aug. 7	263	70	24	545
Applegate, Daniel H. (See Pintard, William, assignor.)						
Applegate, Daniel H., Red Bank, N. J. Automatic electrical railway-signal	285,944	Oct. 2	213	60	25	41
Applegate, Eugene W., Washington, D. C. District signal and messenger call-box	279,629	June 19	1266	351, 352	23	2353
Appleget, William S., Cranbury, N. J. Platform-gear for wagons	277,186	May 8	853	226	23	1778
Appleton, Robert M. (See Baldwin, Nathan H., assignor.)						
Appleton, William, Jr. (See Shepard, Charles T., assignor.)						
Appley, Harrison V., Upper Lisle, N. Y. Axle-box	271,764	Feb. 6	215	60	23	477
Aram, Jonathan G., assignor of one-half to R. Ellis, Moline, Ill. Wagon-brake lever	282,432	July 31	2662	730	24	485
Arbogast, George, assignor to A. Shoeninger, Chicago, Ill. Locomotive-chair	287,789	Nov. 6	2	1	25	507
Archbold, George, Oswego, N. Y. Manufacture of paper-pulp	274,250	Mar. 20	1294	.....	23	1072
Archbold, George, Oswego, N. Y. Manufacture of paper-pulp. (Reissue)	10,328	May 22	2217	.....	23	2027
Archer Automatic Car Coupler Company. (See Archer, Samuel B., assignor.)						
Archer, Charles W. (See Fosdick, Jesse T., assignor.)						
Archer, John B., Washington, D. C. Hydrocarbon-furnace	279,904	June 26	1595	447	23	2417
Archer, Samuel B., Pittsburg, Pa., assignor to Archer Automatic Car Coupler Company, Saratoga Springs, N. Y. Car-coupling	283,845	Aug. 28	1664	470	24	825
Archer, Thomas, New York, N. Y. Machine for grinding, smoothing, and polishing glass	286,672	Oct. 16	1124	302	25	220
Archer, William S., New York, N.Y. Process of and machine for separating fiber, wool, &c	283,846	Aug. 28	1666	470	24	826
Archibald, Andrew, assignor to M. H. Archibald, Yonkers, N. Y. Automatic safety-cock for gas-burners	277,975	May 22	1782	486	23	1952
Archibald, Mary H. (See Archibald, Andrew, assignor.)						
Ardrey, Robert, assignor of one-half to W. Talbot, Philadelphia, Pa. Paper-roll cutter or edge-trimmer	273,244	Mar. 6	2	1	23	835
Arend, John J., assignor of one-half to G. E. Robinson and A. A. Halter, Akron, Ohio. Key-fastener	290,623	Dec. 18	1584	436	25	1180
Arendt, Martin E., Buffalo, N. Y., and A. L. Weil, Bradford, Pa. Obtaining lubricating-oil from crude petroleum	278,844	June 5	233	68	23	2163
Arens, August, assignor to P. & F. Corbin, New Britain, Conn. Reversible store-door latch	286,250	Oct. 9	578	159	25	116
Arff, Hans F., and D. Bornholdt, Arcadia, Iowa. Game-table	279,313	June 12	866	241, 242	23	2281
Argerbright, Daniel, Troy, Ohio. Vehicle-spring	279,686	June 19	1338	372	23	2365
Argerbright, Daniel, Troy, Ohio. Two-wheeled vehicle	285,202	Sept. 18	1284	361	24	1139
Armant, Edmond. (See Salomon, Etienne, assignor.)						
Armington, William W., Providence, R. I. Slate and blackboard cleaner	282,148	July 31	2298	631	24	492
Armistead, Thomas J., Lancaster, assignor of one-half to S. A. Middleton and C. C. McClure, Crab Orchard, Ky. Time-shell	289,492	Dec. 4	153	42	25	913
Armour, James H., and J. Schott, Kansas City, Mo. Fastening for adjustable head-rests	289,596	Dec. 4	282	79	25	937
Armour, Lawrence H., Gateshead-on-Tyne, county of Durham, England. Method of and apparatus for the treatment of spoil-heaps of collieries	285,945	Oct. 2	215	60	25	41
Armour, Michael C., Chicago, Ill. Stove	273,005	Feb. 27	1803	504, 505	23	777
Armour, Michael C., Chicago, Ill. Stove	284,112	Aug. 28	2012	560	24	886
Armour, Michael C., Chicago, Ill. Stove	284,113	Aug. 28	2014	560	24	887
Armstrong, Alexander. (See Bronson and Armstrong.)						
Armstrong, Alexander F., Edinburg, and M. K. Waite, Northville; said Waite assignor to L. Balch, Albany, N. Y. Horse-blanket fastener	290,198	Dec. 18	1020	287	25	1083
Armstrong, Arthur H., Plainville, Conn. Car-coupling	274,893	Apr. 3	4	1	23	1227
Armstrong, Benjamin A. (See MacKay and Armstrong.)						
Armstrong, Charles, and G. Abbott, Galveston, Tex. Chair for railway-rails	272,617	Feb. 20	1306	364	23	683
Armstrong, Charles T., Corunna, Mich. Carboy-stand	272,512	Feb. 20	1171	327	23	659
Armstrong, Christian D., St. Bernard, La. Cane-mill	273,432	Mar. 6	249	67	23	876
Armstrong, Edwin A., Detroit, Mich. Rock-drill	290,309	Dec. 18	1164	326	25	1107
Armstrong, Frank. (See Chase, George S., assignor.)						
Armstrong, Frank. (See Stever, Jeremiah, assignor.)						
Armstrong, Frank, Bridgeport, Conn. Wrench	274,544	Mar. 27	1697	471	23	1148
Armstrong, Frank, Bridgeport, Conn. Stock and die	286,673	Oct. 16	1125	303	25	220
Armstrong, Frank, Bridgeport, Conn. Buckle	287,081	Oct. 23	1648	452	25	318
Armstrong, Frank, and J. H. Hine, Bridgeport, Conn.; said Hine assignor to said Armstrong. Wrench	274,545	Mar. 27	1698	471	23	1148
Armstrong, Frank L., Philadelphia, Pa. Combination-tool	280,995	July 10	808	225	24	149
Armstrong, Frederick W., New York, N. Y. Composition for restoring paints	286,167	Oct. 9	474	.....	25	99
Armstrong, Harry C., Detroit, Mich. Liquid-measure	269,909	Jan. 2	102	30	23	22
Armstrong, Harry W., Verona, assignor to Metcalf, Paul & Co., Pittsburg, Pa. Machine for making nut-locks, &c	274,251	Mar. 20	1295	357	23	1072

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Armstrong, Harry W., assignor to Metcalf, Paul & Co., Pittsburg, Pa. Machine for making washers	284,707	Sept. 11	676	190	24	1024
Armstrong, Henry, Darlington, county of Durham, and J. A. Loudon, Exeter, county of Devon, England. Boiler-covering	287,994	Nov. 6	262	.....	25	553
Armstrong, Jacob S., Republic, Ohio. Truck for handling brick	277,187	May 8	853	227	23	1778
Armstrong, James, assignor to J. C. Armstrong, Bridgewater, N. Y. Feed-water heater and smoke-stack combined	276,150	Apr. 24	1649	455, 456	23	1533
Armstrong, James H., Pinconning, Mich. Chain-fastener	290,833	Dec. 25	1863	515	25	1236
Armstrong, Jane C. (See Armstrong, James, assignor.)						
Armstrong, John, Cleveland, Ohio., assignor to B. Gloekler, Pittsburg, Pa. Machine for stuffing sausages	288,540	Nov. 13	946	259	25	680
Armstrong, John B., Guelph, Ontario, Canada. Bearing-plate	289,597	Dec. 4	284	79	25	937
Armstrong, Ransom H., Hudson, Mich. Halter	281,952	July 24	2034	556	24	373
Armstrong, Robert C., Alexandria, Va., assignor of one-half to W. Small, Washington, D. C. Filtering apparatus	271,396	Jan. 30	1946	563	23	391
Armstrong, Robert W., Belleek, county of Fermanagh, Ireland. Trap	277,656	May 15	1408	379	23	1879
Armstrong, Samuel, Newark, N. J. Metal packing for piston-rods	274,165	Mar. 20	1186	327	23	1053
Armstrong, Samuel, Newark, N. J. Metallic wire packing	287,751	Oct. 30	2519	679	25	488
Armstrong, Walter T., Andes, N. Y. Machine for notching sheet metal	280,996	July 10	809	225	24	150
Armstrong, William, Martinsburg, W. Va., assignor of one-half to D. M. Newbold, Baltimore, Md. Signal head-light	279,072	June 5	562	154, 155	23	2220
Armstrong, William T., Soledad, assignor to Baker & Hamilton, San Francisco, Cal. Seed-sower attachment	280,437	July 3	126	34	24	23
Arnaud, Pierre, and L. Gaytté, La Ciotat, France. Steelyard	280,779	July 10	559	156	24	105
Arnd, Henry. (See Kukkuck and Arnd.)						
Arnd Manufacturing Company. (See Kukkuck and Arnd, assignors.)						
Arndt, Theophilus, Florin, assignor of one-half to H. H. Heise, Columbia, Pa. Automatic railway-signal	289,953	Dec. 11	719	203	25	1019
Arndt, William J., Detroit, Mich. Grain-car door	271,677	Feb. 6	109	29	23	459
Arner, Irving E., Halloway, Mich. Attachment for harvesters	272,016	Feb. 13	539	146	23	546
Arner, Irving E., Holloway, Mich. Self-binding harvester	281,227	July 17	1108	305	24	209
Arnett, John. (See Bodifield and Arnett.)						
Arnheim, Marks, New York, N. Y. Supporting-cable used in propelling cars	283,058	Aug. 14	698	196	24	631
Arnn, Crispin D. (See Parker and Arnn.)						
Arno, Oliver H., Wilmington, assignor to American Automatic Organ Company, Boston, Mass. Mechanical musical instrument. (Reissue)	10,279	Jan. 30	2186	628, 629	23	433
Arnold, Abbott, Houston, Tex. Bale-tie	281,821	July 24	1877	513	24	346
Arnold, Albert F., Providence, R. I. Ear-ring	276,993	May 8	605	158	23	1736
Arnold, Amos W. C., Providence, R. I., and C. Morrill, New York, N. Y. Metal-shearing machine	279,314	June 12	867	242	23	2281
Arnold, Anna M. (See Arnold, Satterlee, assignor.)						
Arnold, Craig R. (See Simmons, John B., assignor.)						
Arnold, Craig R., Philadelphia, Pa. Current-regulator for electric-light circuits	288,393	Nov. 13	770	208	25	648
Arnold, Don Juan, Brownville, Nebr. End-gate	279,687	June 19	1339	372	23	2365
Arnold, Fred E. (See Arnold, Georg W. and F. E.)						
Arnold, Georg W. and F. E., Ionia, Mich. Harrow-tooth fastening	276,209	Apr. 24	1721	476	23	1545
Arnold, George W., Knoxville, Ill. Sash-balance	283,946	Aug. 28	1791	507	24	849
Arnold, John P., Philadelphia, Pa. Whip	284,351	Sept. 4	234	66	24	944
Arnold, Nathaniel W. (See Packard and Arnold.)						
Arnold, Noah S., San Francisco, Cal., assignor to Dighton Furnace Company, Dighton, Mass. Cooking stove and range	284,795	Sept. 11	789	220	24	1043
Arnold, Oliver, assignor to T. K. Earle Manufacturing Company, Worcester, Mass. Oscillating cutter for card-setting machines	284,161	Sept. 4	1	1	24	905
Arnold, Oliver, assignor of one-half to J. L. Truax, Worcester, Mass. Roller-skate	287,007	Oct. 30	2331	630	25	452
Arnold, Satterlee, assignor to A. M. Arnold, Troy, N. Y. Uniting fabrics	278,484	May 29	2449	668	23	2077
Arnold, Satterlee, assignor to A. M. Arnold, New York, N. Y. Manufacture of knit goods	278,486	May 29	2454	669	23	2077
Arnold, Satterlee, Troy, assignor to A. M. Arnold, New York, N. Y. Method of and apparatus for trimming and sewing fabrics	278,485	May 29	2451	668, 669	23	2077
Arnold & Wendt. (See Brock, William E., assignor.)						
Arnold, William J., Providence, R. I. Music-leaf turner	288,966	Nov. 27	1477	409	25	789
Aron, Joseph. (See Rosenfield, William W., assignor.)						
Aronson, Albert, New York, N. Y. Fabric	281,172	July 10	1024	286	24	188
Aronson, Joseph N., London, England. Electric brush	279,315	June 12	871	242, 243	23	2281
Arras, John D., Findlay, assignor of one-half to P. D. Arras, Cannonsburg, Ohio. Corn-drill	282,433	July 31	2663	730	24	485
Arras, Peter D. (See Arras, John D., assignor.)						
Arter, Alpheus, New Lisbon, Ohio. Hame-tug	284,590	Sept. 11	528	150	24	999
Arthur, Alexander A., E. F. Spaulding, Boston, Mass., and W. Davison, Hoboken, N. J. Fence-post	277,657	May 15	1409	380	23	1880
Arthur, Alexander A., E. F. Spaulding, Boston, Mass., and W. Davison, Hoboken, N. J. Fence-post	277,658	May 15	1410	380	23	1880
Arthur, Joseph A., Logan County, W. Va. Reciprocating propeller	274,693	Mar. 27	1875	522	23	1180
Arthur, Joseph A., Catlettsburg, Ky., assignor of one-third to E. Robinson, Kanawha Station, W. Va. Sewing-machine motor	283,742	Aug. 28	1540	436	24	804
Arthur, Lee Roy, assignor of one-half to J. Fowler, Glens Falls, N. Y. Sack-turner	287,214	Oct. 23	1820	499	25	349
Artmann, Richard. (See Fechteler, Henry, assignor.)						
Artz, George L., Columbus, Ohio. Top-prop for carriages	283,553	Aug. 21	1306	366	24	748
Arzt, Frederick, New York, N. Y. Candle-holder for Christmas-trees	286,572	Oct. 16	995	269	25	197
Asbury, Henry B., Germantown, F. A. Neider and G. Grosamann, Augusta, Ky. Culinary vessel	282,252	July 31	2427	667	24	444
Asbury, William, Boston, Mass. Tricycle	285,946	Oct. 2	216	61	25	41
Ash, Charles W., Boston, Mass., assignor of one-half to J. N. Lander, Concord, N. H. Lewis	277,532	May 15	1261	338	23	1855
Ash, Joseph, and J. Fisk, assignors to American Fence Machine Company, Quincy, Ill. Wire-fence machine	288,913	Nov. 20	1408	388	25	769
Ash, William F., Walnut, Kans. Fence	279,073	June 5	564	155	23	2220
Ashbury, Thomas, *et al.* (See Sumner, Herbert, assignor.)						
Ashbury, Thomas, H. Sumner, W. Lees, and R. W. B. Sanderson, Manchester, county of Lancaster, England. Gas-motor engine	282,832	Aug. 7	426	121	24	576
Ashby, William W., Boreman, W. Va. Potato-planter	283,059	Aug. 14	699	196	24	631
Ashcroft Manufacturing Company. (See See, James W., assignor.)						
Ashcroft, William F., Lovely Dale, Ind. Carpet-stretcher	270,720	Jan. 16	1110	317	23	232
Asher, Morris, and G. Minck, assignors to said Morris Asher and S. Ashner, New York, N. Y. Cigar	288,151	Nov. 6	440	124	25	584

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Ashley, James R., Joliet, Ill. Wire bale-tie	285,947	Oct. 2	217	61	25	41
Ashley, William E. (See Bodenhamer and Ashley.)						
Ashman, George, Cincinnati, Ohio. Aquatic glove	286,106	Oct. 2	401	110	25	74
Ashner, Sigmund. (See Asher and Minck, assignors.)						
Ashtabula Bolt and Shaft Company. (See Castle, William H., assignor.)						
Ashtabula Carriage Bow Company. (See Castle, Samuel N., assignor.)						
Ashton, William H., Seward, Nebr. Paper-bag holder	288,967	Nov. 27	1478	409, 410	25	789
Ashworth, Edmund, Bolton le Moors, county of Lancaster, England. Machine for winding yarn, thread, &c	285,203	Sept. 18	1285	361, 362	24	1139
Asimont, Henry H., assignor of one-half to A. H. Harston, Duluth, Minn. Sash-holder	288,611	Nov. 20	1035	285	25	703
Asire, George H., South Bend, Ind. Steam-boiler	289,796	Dec. 11	529	147, 148	25	985
Askrens, Joseph H. (See Howe, Albert D., assignor.)						
Asper, Benjamin F., Pittsburg, Pa. Coal-mining machine	289,745	Dec. 4	469	132, 133	25	968
Aspin, Robert. (See Porter, Bloom, and Aspin.)						
Aspinwall, L. Augustus, Trenton, N. J. Potato-planter	276,994	May 8	606	159	23	1736
Asselstine, Elnathan M., East Saginaw, Mich. Recording device	275,454	Apr. 10	775	207	23	1367
Assmann, Franz A., assignor of one-half to J. H. Seheel, New York, N. Y. Can for oil, &c.	273,794	Mar. 13	720	195	23	966
Assmus, Adolph, Chicago, Ill. Drive-chain	280,760	July 10	559	157	24	106
Athearn, William E., Philadelphia, Pa. Telegraphic repeater	286,107	Oct. 2	401	110	25	74
Atherton, Abel T. (See Potter, James, assignor.)						
Atherton, Abel T. (See Walker, George P., assignor.)						
Atherton, Abel T., Lowell, Mass. Seed-cotton cleaner	288,152	Nov. 6	440	124	25	584
Atherton, Abel T., assignor to Phenix Machine Company, Lowell, Mass. Bobbin-holder for spooling-machines	270,721	Jan. 16	1111	317, 318	23	232
Atherton, Robert, and J. Newby, Paterson, N. J. Thread-guide for spooling-machines	278,487	May 29	2455	669	23	2078
Athey, Isaac H., Paola, Kans. Corn-dropping attachment	276,151	Apr. 24	1651	456	23	1534
Athol Machine Company. (See Hickok, Samuel, assignor.)						
Atkins, Callahill, Pikeville, assignor of one-half to S. M. Ferguson, Floyd County, Ky. Medicine for scrofula	280,281	June 26	2044	.....	23	2496
Atkins, Elias C. (See Hood, Harrison P., assignor.)						
Atkins, Elias C., Indianapolis, Ind. Auxiliary saw-handle	287,790	Nov. 6	4	2	25	507
Atkins, Elias C., Indianapolis, Ind. Furnace for heating saws	288,968	Nov. 27	1478	410	25	789
Atkins, James I. (See Powell and Atkins.)						
Atkins, Sophronia, River Falls, Wis. Cordage to be used for bale bands or ties	279,852	June 19	1525	.....	23	2398
Atkins, Sullivan H., *et al* (See Carter, Alba B., assignor.)						
Atkinson, Claude M., Milwaukee, Wis. Glue compound	282,034	July 31	2134	.....	24	396
Atkinson, Henry C., Franklin, Ky. Lamp	284,796	Sept. 11	790	220	24	1043
Atkinson, Henry C., Franklin, Ky., assignor of part to T. B. McKenzie & Harris, J. Black, J. G. Harris, R. B. Phillips, G. S. Black, L. J. Jones, and I. H. & T. M. Goodknight. Car-axle	277,825	May 15	1599	437	23	1914
Atkinson, Philip, Chicago, Ill. Frictional electrical machine	275,347	Apr. 10	627	168, 169	23	1342
Atkinson, William B., assignor of one-half to J. H. Foster, Franklin, Ky. Combination-lock	277,188	May 8	854	227	23	1778
Atkinson, William H., assignor to Somers Brothers, Brooklyn, N. Y. Box	277,401	May 8	1095	294	23	1821
Atkinson, William H., assignor to Somers Brothers, Brooklyn, N. Y. Machine for seaming irregular-shaped cans	279,853	June 19	1526	427	23	2398
Atkiss, James, Brooklyn, N. Y. Machine for plotting soap	276,326	Apr. 24	1881	522	23	1571
Atlantic and Pacific Electric Manufacturing Company. (See Rabl, Franz, assignor.)						
Atlas Engine Works. (See Moore, Matthew R., assignor.)						
Atlas Manufacturing Company. (See McCollum, Matthew C., assignor.)						
Atterbury, Thomas B., Pittsburg, Pa. Mold for forming glass articles	275,562	Apr. 10	910	247	23	1390
Atterbury, Thomas B., Pittsburg, Pa. Mold for manufacturing glass lamps and other articles	275,563	Apr. 10	912	247	23	1390
Atterbury, Thomas B., Pittsburg, Pa. Manufacture of glass articles	275,564	Apr. 10	913	247	23	1390
Atterbury, Thomas B., Pittsburg, Pa. Glass-mold and the manufacture of glass articles	276,327	Apr. 24	1882	522, 523	23	1571
Attock, Frederick, Newton Heath, near Manchester, county of Lancaster, England. Car-coupling	287,082	Oct. 23	1649	453	25	318
Atwater, Henry W., Orange, N. J. Wrench	284,162	Sept. 4	2	1	24	905
Atwater, John B., Chicago, Ill. Electric motor	274,101	Mar. 20	1098	303, 304	23	1037
Atwater, John B., Chicago, Ill. Rotary electro-magnetic motor	278,760	June 5	103	29, 30	23	2141
Atwater, Richard M., Millville, N. J., assignor of one-half to Whitall, Tatum & Co., Philadelphia, Pa. Apparatus for cutting the scales on glass measuring-vessels	273,795	Mar. 13	721	196	23	966
Atwater, Richard M., Millville, N. J., assignor of one-half to Whitall, Tatum & Co., Philadelphia, Pa. Apparatus for determining the scale of glass measuring-vessels	278,845	June 5	234	69	23	2163
Atwell, Richard H., Baltimore, Md. Relief-valve for steam fire-engines	277,189	May 8	856	228	23	1778
Atwood, Adelbert A., Shenandoah, Iowa. Drag sawing machine	287,695	Nov. 6	133	39	25	531
Atwood, Adelbert A., Shenandoah, Iowa. Wire-tightener	290,384	Dec. 18	1258	353	25	1124
Atwood, Adelbert A., Shenandoah, Iowa. Seed-planter	290,385	Dec. 18	1259	353	25	1125
Atwood, Adison, D. and C. M., East Portland, Oreg. Car-coupling	284,797	Sept. 11	791	220	24	1044
Atwood, Charlie M. (See Atwood, Adison D. and C. M.)						
Atwood, George F., Swanton, Vt. Suspender-loop	275,975	Apr. 17	1429	394	23	1488
Atwood, George F., Swanton, Vt. Suspenders	290,958	Dec. 25	2020	557	25	1262
Atwood, James E., Troy, N. Y., assignor to T. Mace, Plainfield, N. J. Carbon electrode for electric lamps	272,017	Feb. 13	541	146	23	546
Atwood, James F., Boston, Mass. Attaching buttons, &c	285,781	Oct. 2	4	1	25	3
Atwood, James F., Boston, Mass. Button-setting instrument	285,782	Oct. 2	5	2	25	4
Atwood, James F., Boston, Mass. Cuff-holder	289,057	Nov. 27	1590	440	25	808
Atwood, James L. (See Hungerford, Arthur E., assignor.)						
Atwood, Leonard, New York, N. Y. Safety hod-elevator	271,678	Feb. 6	109	30	23	459
Atwood, Leonard, New York, N. Y. Safety hod-elevator	273,006	Feb. 27	1805	505	23	777
Atwood, Leonard, New York, N. Y. Endless hod-elevator	275,455	Apr. 10	776	207	23	1367
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Lamp-burner	270,722	Jan. 16	1112	318	23	232
Atwood, Osmyn H., and H. P. Lester, North Attleborough, Mass. Bracelet	279,518	June 19	1141	315	23	2331
Aubin, Auguste H., New York, N. Y. Chewing-gum and manufacturing the same	280,115	June 26	1851	.....	23	2462
Auble, William A., assignor to L. H. Thomas, Chicago, Ill. Can for ink	286,193	Oct. 16	1403	385	25	268
Auburndale Watch Company. (See Wales, William A., assignor.)						
Auchincloss, William S., Philadelphia, Pa. Averaging-machine	281,953	July 24	2034	556, 557	24	373

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Auer, Albert B., assignor of one-half to S. P. Rounds, Chicago, Ill. Type-form furniture, &c	278,211	May 22	2080	573	23	2004
Auerbach, Altschul & Brannon. (See Brannon, Patrick P., assignor.)						
Augir, Viola J., Spencer, Iowa. Album for photographs, &c	271,765	Feb. 6	216	60	23	478
Augspath, Louis, Little Rock, Ark. Railway-car	283,947	Aug. 28	1792	507	24	849
Auld, Joseph, Burlington, Vt. Tricycle	289,746	Dec. 4	472	133	25	969
Aull, William F., *et al.* (See Gartside, Joseph H., assignor.)						
Aumock, Charles D., Owasco Lake, N. Y. Force-feed fertilizer-distributer	270,198	Jan. 9	438	129	23	97
Aurand, Balera J., Mansfield, assignor to H. H. Rudd, Cleveland, Ohio. Thill-tug	269,989	Jan. 2	196	57	23	41
Austin, Dinsmore, assignor of one-third to H. C. Laub, Denison, Iowa. Attachment to windmills, &c	272,618	Feb. 20	1307	364	23	683
Austin, Dinsmore, assignor of one-third to J. Knight, Denison, Iowa. Mechanical power for windmills	273,796	Mar. 13	722	196	23	966
Austin, Edward R. (See Jackson and Austin.)						
Austin, Frederick. (See Berlin, Henry, assignor.)						
Austin, George W., *et al.* (See Carleton, Monroe G., assignor.)						
Austin, Henry R., Norwood, N. Y. Turbine water-wheel	287,403	Oct. 30	2059	559	25	399
Austin, James, Brooklyn, N. Y. Traction-wheel	269,990	Jan. 2	197	57	23	41
Austin, Joseph G., Camden, N. J. Wood-working machine	271,014	Jan. 23	1472	423, 424	23	302
Austin, Josiah, and R. Chamberlain, East Liberty, Ohio. Automatic double gate	272,619	Feb. 20	1308	365	23	683
Austin, Matthew J., Danville, Ill. Ditching-machine	283,948	Aug. 28	1793	507	24	849
Austin, Samuel. (See Stites, Steel, and Austin.)						
Austin, William, Philadelphia, Pa. Sheet-metal pipe	290,659	Dec. 25	1633	449	25	1195
Austin, William F., Greenbush, N. Y. Potato-digger	271,015	Jan. 23	1473	424	23	302
Austrian, Raphael, Reading, Pa. Apparatus for cleaning and polishing boots and shoes	290,386	Dec. 18	1260	353	25	1125
Automatic Centering Chuck Company. (See Peer, John A., assignor.)						
Automatic Current Protector and Electric Manufacturing Company. (See Dyer, Josiah W., assignor.)						
Automatic Fire Alarm Association. (See Prentiss and Tilden, assignors.)						
Automatic Fire Extinguisher Company. (See Brown, Joseph R., assignor.)						
Automatic Gas Machine Company. (See Cottrell, Herbert, assignor.)						
Automatic Parcel Delivery Company. (See Hayden, Harris H., assignor.)						
Automatic Safety Boiler and Engine Company. (See Mather, Thomas W., assignor.)						
Automatic Safety Boiler and Engine Company. (See Nunns and Smith, assignors.)						
Averell, Ellicot D., Brooklyn, N. Y. File for invoices, letters, bonds, &c	273,797	Mar. 13	724	196	23	967
Avery, Asher W., assignor of one-half to E. L. Ingalls, Verndale, Minn. Car-coupling	283,743	Aug. 28	1541	436	24	804
Avery, Cyrus M. (See Avery, Robert H., assignor.)						
Avery, Elroy M., Cleveland, Ohio. Electric cut-out	276,328	Apr. 24	1884	523	23	1572
Avery, George C., Louisville, Ky. Plumb-bob	279,316	June 12	872	243	23	2282
Avery, George C., Louisville, Ky. Double shovel plow	285,723	Sept. 25	1912	542	24	1258
Avery, George C., assignor to B. F. Avery & Sons, Louisville, Ky. Plow	290,950	Dec. 25	2021	558	25	1202
Avery, John A., Boston, Mass. Mast-shield	288,153	Nov. 6	442	124	25	585
Avery, John G., Spencer, Mass. Anti-friction bearing	287,215	Oct. 23	1620	499	25	349
Avery Lactate Company. (See Marsh, George A., assignor.)						
Avery Lactate Company. (See Thompson, Charles O., assignor.)						
Avery Lactate Company. (See Waite, Charles N., assignor.)						
Avery, Orlando M. (See Young, James E., assignor.)						
Avery, Robert H., assignor of one-half to C. M. Avery, Galesburg, Ill. Corn-planter	276,745	May 1	279	71	23	1672
Avery, Samuel, Phœnix, N. Y. Box-nailing machine	270,364	Jan. 9	641	189	23	135
Avery & Sons, B F. (See Avery, George C., assignor.)						
Avery, William G., Cleveland, Ohio. Saw-set and punch	282,600	Aug. 7	151	45	24	527
Avery, William O., Washington, D. C. Fire-escape	284,994	Sept. 18	1032	289	24	1095
Axtell, Spencer T. (See Henley and Axtell.)						
Aydelott, Jacob S., Xenia, Ind. Cog-link for chains	270,723	Jan. 16	1113	318	23	233
Aydelott, Jacob S., Xenia, Ind. Lock	281,822	July 24	1878	513	24	346
Ayer, Frank C., Columbus, Ohio. Rein and whip holder	271,016	Jan. 23	1474	425	23	302
Ayer, Frank C., Columbus, Ohio. Vehicle-dash fastening	271,017	Jan. 23	1475	425	23	302
Ayer, Frank C., Columbus, Ohio. Combined whip and rein holder	287,493	Oct. 30	2170	589	25	421
Ayers, Alexander, San José, Cal. Saddle-girth	289,598	Dec. 4	294	79	25	937
Ayers, George A., Holyoke, Mass. Hygrometer	277,533	May 15	1262	339	23	1855
Ayers, George A., Holyoke, Mass. Hygrometric governor for railway-heads	278,488	May 29	2456	669, 670	23	2078
Ayling, Arthur P. (See Semple and Ayling.)						
Aylsworth, William P., Council Bluffs, Iowa. House-moving truck	290,513	Dec. 18	1446	399	25	1156
Ayo, Joseph O., near Houma, La. Dredging-bucket	277,868	May 22	1660	453	23	1931
Ayres, Abraham, New York, N. Y. Railway-switch	275,115	Apr. 3	309	86	23	1279
Ayres, Franklin C., Deadwood, Dak. Ter. Snap-hook	274,694	Mar. 27	1876	523	23	1181
Ayres, Henry, Philadelphia, Pa. Gripper for printing-presses	274,546	Mar. 27	1699	471	23	1148
Ayres, James, *et al.* (See Decker, Alexander C., assignor.)						
Ayres, Jared A., assignor to Pneumatic Engine Company, Mystic River, Conn. Boiler-feed apparatus for engines	274,102	Mar. 20	1101	304	23	1037
Ayres, Jared A., assignor to Pneumatic Engine Company, Mystic River, Conn. Boiler feed-water apparatus	274,103	Mar. 20	1103	305	23	1038
Ayres, Jared A., assignor to Pneumatic Engine Company, Mystic River, Conn. Boiler-feeding apparatus	274,104	Mar. 20	1105	305	23	1038
Ayres, Peter, *et al.* (See Decker, Alexander C., assignor.)						
Ayres, Samuel, assignor to S. Ayres & Son, Worcester, Mass. Animal-trap	282,482	Aug. 7	5	2	24	501
Ayres & Son, S. (See Ayres, Samuel, assignor.)						
Ayres, Tyler F., Yuba, Wis. Churn	274,252	Mar. 20	1298	357	23	1073
Babb, William J., assignor to himself and W. T. Mason, Troy, N. Y. Fire-kindler	277,190	May 8	857	.....	23	1779
Babb, William J., assignor to himself and W. T. Mason, Troy, N. Y. Fire-kindler. (Reissue)	10,352	July 10	1100	.....	24	201
Babbit, Joseph W., Hiawatha, Kans. Skimmer for evaporating-pans	278,074	May 22	1898	520	23	1972
Babbitt, Benjamin T., New York, N. Y. Rotary engine	269,991	Jan. 2	199	57	23	41
Babbitt, Benjamin T., New York, N. Y. Balanced rotary valve	269,992	Jan. 2	200	58	23	42
Babbitt, Benjamin T., New York, N. Y. Boiler-feeder	269,993	Jan. 2	201	58	23	42
Babbitt, Benjamin T., New York, N. Y. Steam-generator	271,397	Jan. 30	1947	563, 564	23	392
Babbitt, Benjamin T., New York, N. Y. Blast apparatus for forges	273,433	Mar. 6	250	68	23	876
Babbitt, Benjamin T., New York, N. Y. Extracting glycerine	275,976	Apr. 17	1429	394	23	1488
Babbitt, Benjamin T., New York, N. Y. Bleaching palm-oil, &c	281,823	July 24	1879	513	24	346
Babbitt, Benjamin T., New York, N. Y. Evaporating apparatus	286,369	Oct. 9	745	200	25	145
Babbitt, S. William, Meriden, Conn. Combined sink trap and safety-pocket	286,759	Oct. 16	1232	313	25	228
Babcock, Amos M., Nora Springs, Iowa. Device for converting motion	285,372	Sept. 25	1486	419	24	1161

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Babcock, Barber, Busti, N. Y. Cotton and hay press	277,101	May 8	745	196	23	1759
Babcock, Cyrus M., *et al.* (See Healy, Michael L., assignor.)						
Babcock, Erskine L., Cuyahoga Falls, Ohio, assignor to Indianapolis Machine and Bolt Works, Indianapolis, Ind. Pulley-wheel	285,869	Oct. 2	111	33	25	22
Babcock, George H., Plainfield, N. J. Luminous sign	284,163	Sept. 4	3	1	24	905
Babcock, Simeon, Manistee, Mich. Machine for sawing clapboards or rift siding	273,701	Mar. 13	594	159	23	943
Babcock, Sylvester P., Adrian, Mich. Hand-planter cut-off	276,995	May 8	608	159	23	1736
Babcock, Sylvester P., Adrian, Mich. Spring-metal cut-off for hand-planters	276,996	May 8	608	160	23	1736
Babcock & Wilcox Company. (See Higgins, Campbell P., assignor.)						
Babcock & Wilcox Company. (See Pratt, Nathaniel W., assignor.)						
Babcock, William A., South Coventry, Conn. Air-compressor	280,997	July 10	810	226	24	150
Babcock, William A., South Coventry, Conn., assignor to Bishop & Babcock, Cleveland, Ohio. Faucet	287,357	Oct. 23	1993	543	25	381
Babcock, William A., South Coventry, Conn., assignor to Bishop & Babcock, Cleveland, Ohio. Hydraulic air-compressor	287,358	Oct. 23	1995	544	25	381
Babcock, William H. (See Aldrich, James T., assignor.)						
Babcox, Hiram M. D. L., Modesto, Cal. Sulky dirt-scraper	277,826	May 15	1600	437	23	1914
Babcox, Hiram M. D. L., San Francisco, Cal. Pump	284,708	Sept. 11	678	191	24	1025
Bach, Eduard, Richfield, Wis. Churn	275,747	Apr. 10	1145	314	23	1429
Bach, John C., Hillsdale, Mich. Shaft-press	290,834	Dec. 25	1864	515	25	1236
Bach, John C., assignor to himself and H. Alles, Hillsdale, Mich. Two-wheeled vehicle	288,757	Nov. 20	1925	335	25	735
Bach, Thomas C. (See Moore, Ira, assignor.)						
Bach, Thomas C. (See Moore, Ira W., assignor.)						
Bachelder, John, Napa, Cal. Agricultural machine	278,675	June 5	1	1	23	2125
Bacher, Gottfried, Kladno, Austria-Hungary. Apparatus for depositing and collecting sediments or precipitates	277,191	May 8	858	228	23	1779
Bachman, Albert, Shelburne, Nova Scotia, Canada, assignor of one-third to J. W. Young, Boston, Mass. Pulley-block	272,186	Feb. 13	745	206	23	581
Bachman, Jacob, Stony Run, Pa. Fan for grain-separators, &c	270,882	Jan 23	1305	377	23	275
Bachmann, Emil, New York, N. Y. Elevator	284,352	Sept. 4	235	66	24	944
Bachmann, Emil, New York, N. Y. Coin-detector	285,204	Sept. 18	1286	362	24	1139
Bachmann, Emil, New York, N. Y. Elevator	286,760	Oct. 16	1234	333	25	239
Bachmann, Johann, Nuremberg, Bavaria, Germany, assignor to Link-Belt Machinery Company, Chicago, Ill. Belt-fastener	285,543	Sept. 25	1090	476	24	1218
Backus, Augustus. (See Watrous, James A., assignor.)						
Backus, Quimby S., Winchendon, Mass. Combined bathing apparatus and commode	275,011	Apr. 3	168	45	23	1254
Backus, Quimby S., Winchendon, Mass. Boiler	279,905	June 26	1596	447	23	2417
Backus, Thadeus J. (See Walker and Backus.)						
Backus, Victor M., Indianapolis, Ind. Vehicle-spring	274,547	Mar. 27	1700	472	23	1148
Backus, Victor M., Indianapolis, Ind. Vehicle-spring	287,404	Oct. 30	2059	559	25	400
Bacon, Charles H., Boston, assignor of one-half to A. Fuller, E. Newhall, Lynn, and J. H. Sturgis, Brookline, Mass. Rotary engine	280,438	July 3	126	34	24	24
Bacon, Charles H., assignor of one-half to A. Fuller, Boston, E. Newhall, Lynn, and J. H. Sturgis, Brookline, Mass. Apparatus for measuring fluids	289,058	Nov. 27	1591	440	25	808
Bacon, Edward H., La Prairie, Ill. Ribbon box and reel	283,949	Aug. 28	1794	506	24	849
Bacon, George C., Lynn, Mass. Clamp	282,945	Aug. 14	561	159	24	607
Bacon, Henry S. (See Bate, Wallace H., assignor.)						
Bacon, Henry S. (See Cushman, Henry S., assignor.)						
Bacon, Henry S., Milford, Mass., assignor to Union Fastening Company, Jersey City, N. J. Tube-forming and cord-covering machine	273,217	Feb. 27	2068	581	23	824
Bacon, J. Francis, *et al.* (See Pfautz, Daniel M., assignor.)						
Bacon, John L. (See Preston and Bacon.)						
Bacon, Joseph H., Charlotte, Mich. Signal	273,218	Feb. 27	2069	581	23	824
Bacon, Joseph H., and W. H. Paige, Detroit, Mich. Straight-way valve	281,228	July 17	1109	306	24	209
Bacon, Nathaniel T. (See Cowles, William, assignor.)						
Bacon, Orin F., assignor to Reed & Barton, Taunton, Mass. Table-caster frame	285,544	Sept. 25	1691	477	24	1218
Bacon, Reuben S., assignor of one-half to E. J. Pelton, Springfield, Ohio. Roller for endless belts	280,282	June 26	2045	575	23	2497
Bacon, William. (See Walker and Bacon.)						
Bacon, William L., Philadelphia, Pa. Strap-hinge	289,599	Dec. 4	285	80	25	937
Badcock, Henry. (See Richards, James F., assignor.)						
Baden, Thomas E., assignor to M. J. Wine, Washington, D. C. Package-holder	290,514	Dec. 18	1447	400	25	1157
Badger, George A., Quincy, Mass. Cash-carrier	279,688	June 19	1340	372	23	2366
Badger, Jonathan, New York, N. Y. Spoon and sugar-tongs combined	274,695	Mar. 27	1877	523	23	1181
Badger, Jonathan, New York, N. Y. Window-ventilator	287,791	Nov. 6	4	2	25	507
Badger, Walter A., *et al.* (See Reynolds, David R., assignor.)						
Badger, William E., Quincy, Mass. Ball-governor for steam-engines	278,387	May 29	2334	638	23	2056
Badger, William E., Quincy, Mass. Governor-valve	289,954	Dec. 11	720	203	25	1020
Badger, William P., Muscotah, Kans. Windmill	285,948	Oct. 2	218	61	25	42
Badgley Charles C., Neelysville, Mo Steam logging-crab	270,873	Jan. 16	1287	371	23	266
Badgley, Josephus H., Clayton, Mich. Baling-press	286,168	Oct. 9	474	131	25	99
Badgley, Oliver B., *et al.* (See Miller, David W., assignor.)						
Badische Anilin and Soda Fabrik. (See Bernthsen, August, assignor.)						
Badische Anilin and Soda Fabrik. (See Brunck, Heinrich, assignor.)						
Badische Anilin and Soda Fabrik. (See Caro and Kern, assignors.)						
Badische Anilin and Soda Fabrik. (See Kern, Alfred, assignor.)						
Baechler, Charles, Portland, Oreg. Casting stereotype-plates	278,652	May 29	2655	726	23	2112
Baer, Henry C., Massillon, Ohio. Pneumatic shavings and dust feeder	277,192	May 8	859	228	23	1779
Baer, Leopold, T. F. Miner, and T. Taylor, La Grande, Oreg. Non-explosive lamp	284,353	Sept. 4	238	66	24	944
Baese, C. Otto. (See Gärtner, Adolph, assignor.)						
Baggott, James E., assignor of one-half to C. R. Combs, Memphis, Mo. Cream and milk transporter	285,724	Sept. 25	1914	543	24	1258
Bagge, Andrew H., deceased, Labelle Glass Company, legatee, Bridgeport, Ohio. Glass-lamp mold	277,402	May 8	1096	294	23	1821
Bagley, Perkins H. (See Slater, Richard L., assignor.)						
Bagot, Joseph, Brooklyn, N. Y. Combined perch and parasite-trap	273,434	Mar. 6	251	68	23	877
Bahret, Jacob F., Fort Wayne, Ind. Toy trundle or hoop	276,746	May 1	281	71	23	1673
Baier, Franz, Chicago, Ill. Oil-stove stand	272,620	Feb. 20	1309	365	23	684
Baier, Franz A., New York, N. Y. Bottle-packing box	278,761	June 5	105	30	23	2141
Baile, Charles P., New Windsor, Md. Green corn silker	287,083	Oct. 23	1650	453	25	318
Bailey, Benjamin F., Manchester, N. H., and G. H. Griffen, Wareham, Mass. Portable soda-water apparatus	283,060	Aug. 14	700	196 197	24	631
Bailey, Charles A., trustee. (See Cayce, John M., assignor.)						
Bailey, Charles A., Middletown, Conn. Mechanical toy	281,427	July 17	1358	375	24	252

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bailey, Charles A., Middletown, Conn. Trundle toy	281,428	July 17	1359	375	24	252
Bailey, Charles E., and W. R. Talbot, Providence, R. I. Manufacture of shoe-buttons	273,932	Mar. 13	893	244	23	995
Bailey, Daniel, Buckeye City, Ohio. Bee-hive	283,554	Aug. 21	1307	366	24	748
Bailey, Ezra H., assignor to Canvas Slide Fire Escape Company, Washington, D. C. Incline-plane fire-escape	288,394	Nov. 13	771	206, 209	25	649
Bailey, Fortune L., Freeport, Ind. Plane	286,894	Oct. 16	1404	385	25	268
Bailey, Frank W. (See Webb, Morell A., assignor.)						
Bailey, Henry, New York, N. Y. Pulverizer	275,566	Apr. 10	915	248	23	1390
Bailey, Henry C. (See Bennett, John M., assignor.)						
Bailey, Henry D. W., Canton, Ohio. Grain-binder	283,456	Aug. 21	1196	336	24	728
Bailey, Henry D. W., Canton, Ohio. Grain-binder	283,457	Aug. 21	1198	336	24	728
Bailey, Henry L., Brooklyn, N. Y. Circuit for secondary electric clocks	284,355	Sept. 4	241	67	24	945
Bailey, Henry L., Brooklyn, assignor to Time Telegraph Company, New York, N. Y. Electric circuit and apparatus for synchronizing clock-pendulums	278,846	June 5	235	69	23	2163
Bailey, Henry L., Brooklyn, assignor to Time Telegraph Company, New York, N. Y. Electric-spark arresting circuit and device	284,354	Sept. 4	239	67	24	944
Bailey, Henry P., Boston, Mass., and A. A. Hurd, Northwood, N. H. Sewing-machine	286,988	Oct. 23	1527	421	25	295
Bailey, James G., Patterson, Ontario, assignor of one-half to R. Thorne, Toronto, Ontario, Canada. Tricycle	285,205	Sept. 18	1288	362	24	1139
Bailey, Jefferson, Providence, R. I., assignor to McTammany Organette Company, Worcester, Mass. Music-sheet for mechanical musical instruments	286,108	Oct. 2	405	111	25	75
Bailey, Joseph R., Woonsocket, R. I. Hatchet	270,883	Jan. 23	1308	378	23	275
Bailey, Leonard, Hartford, Conn. Bench-plane	285,546	Sept. 25	1694	478	24	1219
Bailey, Leonard C., Washington, D. C. Combined truss and bandage	285,545	Sept. 25	1692	477	24	1218
Bailey, Michael, Windham, Ohio. Fence	273,435	Mar. 6	252	68	23	877
Bailey, Samuel R., Boston, Mass. Wood-dressing machine	277,827	May 15	1601	438	23	1915
Bailey, Selden A., assignor to Lark Manufacturing Company, New York, N. Y. Vehicle-spring	271,187	Jan. 23	1683	485	23	336
Bailey, Walter M., New York, N. Y. Elevator	269,994	Jan. 2	202	58	23	42
Bailey, Walter M., New York, N. Y. Apparatus for making varnish, &c	277,534	May 15	1263	339	23	1655
Bailey, William F., St. Paul, Minn. Sash-fastener	280,892	July 10	684	193	24	128
Bailey, William H., Minneapolis, Minn. Spike	285,373	Sept. 25	1487	419	24	1181
Baillie, William L. (See Wood and Baillie.)						
Baillie-Hamilton, Charles R., Greenwich, county of Kent, England. Velocipede	270,896	Jan. 23	1322	381, 382	23	278
Baily, Jesse, Spiceland, Ind. Washing-machine	276,329	Apr. 24	1885	523	23	1572
Bain Electric Company. (See Bain, Forée, assignor.)						
Bain, Forée, Minneapolis, Minn., assignor to T. G. Springer, Chicago, Ill. Dynamo-electric machine	280,708	July 3	443	126	24	79
Bain, Forée, Minneapolis, Minn., assignor to T. G. Springer, Chicago, Ill. Electric-arc lamp	280,709	July 3	444	127	24	79
Bain, Forée, assignor to Fisher Electric Company, Union City, Ind. Electric lamp	283,186	Aug. 14	852	238	24	658
Bain, Forée, Minneapolis, Minn., assignor to Bain Electric Company, Chicago, Ill. Carbon for arc-lamps	284,939	Sept. 11	956	268	24	1074
Bain, Forée, assignor to Bain Electric Company, Chicago, Ill. Dynamo or magneto electric generator	287,608	Oct. 30	2332	630	25	452
Bain, Forée, assignor to Bain Electric Company, Chicago, Ill. Dynamo-electric machine	287,609	Oct. 30	2334	630	25	453
Bain, Forée, assignor to Bain Electric Company, Chicago, Ill. Dynamo-electric machine	287,610	Oct. 30	2337	631	25	453
Bain, Forée, assignor to Bain Electric Company, Chicago, Ill. Dynamo or magneto electric machine	287,611	Oct. 30	2338	631	25	453
Bain, Forée, assignor to Bain Electric Company, Chicago, Ill. Method of and apparatus for cutting and shaping objects	288,395	Nov. 13	774	209	25	650
Bain, George M., *et al.* (See Bnie, Duncan M., assignor.) (Reissue.)						
Bain, Robert E. W. (See Bain, William B., assignor.)						
Bain, William B., assignor of one-half to R. E. W. Bain, St. Louis, Mo. Carriage-wheel lock	288,154	Nov. 6	443	124	25	585
Bainbridge, David, Philadelphia, Pa. Hull of vessels	272,621	Feb. 20	1309	365	23	684
Bair, G. Milton. (See Raffensparger, Christian M., assignor.)						
Bair & Gazzam. (See Killip, John, assignor.)						
Bair, Ishmael, South Bend, Ind. Spring bed-bottom	289,493	Dec. 4	155	42	25	913
Baird, James, Allegheny, assignor to Reiter & Co., Pittsburg, Pa. Link-bending machine	287,359	Oct. 23	1997	544	25	381
Baird, Robert, assignor to Boult Brothers & Co., Glasgow, Scotland. Valve attachment for gravity-lubricators	274,894	Apr. 3	5	1	23	1227
Bairstow, William H., assignor to Horner Brothers, Philadelphia, Pa. Loom for weaving carpets	289,955	Dec. 11	721	204	25	1020
Baker, A. L., *et al.* (See Schermerhorn, Herschel A., assignor.)						
Baker, Alfred. (See Ferguson and Baker.)						
Baker, Augustus H. (See Pinney, Henry L., assignor.)						
Baker, Augustus H., Hartford, assignor of one-half to H. L. Pinney, South Windsor, Conn. Railway-signal	271,296	Jan. 30	1815	526, 527	23	368
Baker, Bernard N. (See Price, George W., assignor.)						
Baker, Charles A., Boulder, Colo. Combined sofa and bath-tub	277,438	May 15	1151	309	23	1837
Baker, Charles A., New York, N. Y. Filtering compound	286,370	Oct. 9	746	200	25	146
Baker, Charles F. (See Clapp and Baker.)						
Baker, Charles J., Topeka, Kans. Aligner for type-writers	282,253	July 31	2428	668	24	444
Baker, Christian E., Chicago, Ill., assignor of one-half to C. A. Eggert, Muskegon, Mich. Fire-escape	278,847	June 5	239	69	23	2164
Baker, Cyrus M., West Waterville, Me., assignor of one-half to J. H. Mandeville, Washington, D. C. Turbine water-wheel	277,535	May 15	1265	339	23	1856
Baker, Daniel and D. C., Stephens City, Va. Gate	276,330	Apr. 24	1887	523, 524	23	1572
Baker, Daniel C. (See Baker, Daniel and D. C.)						
Baker, Edgar, assignor to himself and S. W. Curriden, Washington, D. C. Stopping and starting mechanism for intermittent machines	275,116	Apr. 3	310	86	23	1279
Baker, Frank E. (See Hitchcock, Arthur C., assignor.)						
Baker, Frank P., *et al.* (See Baker, Loring J., assignor.)						
Baker, George A., Boston, Mass. Spring coupling-link	271,592	Feb. 6	9	3	23	442
Baker, George C. (See Likes, Hedge, and Baker.)						
Baker, George C., assignor to H. B. Hedge and T. A. Noble, Des Moines, Iowa. Fence-barb and barbed wire	273,219	Feb. 27	2070	582	23	824
Baker, George M., and W. Abbott, Espy, Pa. Step-ladder	284,356	Sept. 4	242	67	24	945
Baker, George M., and W. Abbott, Espy, Pa. Step-ladder	285,949	Oct. 2	220	62	25	42
Baker, George W., Aberdeen, Md. Canning green corn	273,436	Mar. 6	252	.....	23	877
Baker, George W., assignor to White Sewing Machine Company, Cleveland, Ohio. Sewing-machine ruffler	271,679	Feb. 6	110	30	23	459

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Baker, George W., assignor to White Sewing Machine Company, Cleveland, Ohio. Embroidering attachment for sewing-machines	274,548	Mar. 27	1701	472	23	1149
Baker, George W., assignor to White Sewing Machine Company, Cleveland, Ohio. Friction-clutch	285,725	Sept. 25	1915	543	24	1259
Baker, Gilbert, Boston, Mass. Dress and skirt protector	282,254	July 31	2429	668	24	444
Baker & Hamilton. (See Armstrong, William T., assignor.)						
Baker & Hamilton. (See Laufenburg, Michael N., assignor.)						
Baker & Hamilton. (See Winn, James H., assignor.)						
Baker, Henry D. (See Sullivan and Baker.)						
Baker, Herbert. (See Colburn, Henry J., assignor.)						
Baker, Hudson A., Bay City, Mich. Cash-carrier	280,603	June 26	1715	480	23	2438
Baker, Hudson A., Bay City, Mich. Box	282,483	Aug. 7	5	2	24	502
Baker, Hudson A., Bay City, Mich. Cash and parcel carrying railway	285,374	Sept. 25	1488	419	24	1181
Baker, Hudson A., Bay City, Mich. Cash-carrier	285,375	Sept. 25	1489	420	24	1182
Baker, Isaac. (See Price, William, assignor.)						
Baker, Jackson R., Jersey City, N. J. Lid for car-axle boxes	283,691	Aug. 21	1470	414	24	780
Baker, Jackson R., Jersey City, N. J., assignor to National Safety Car Bearing Company, of New York. Car-axle box	269,995	Jan. 2	205	58	23	42
Baker, Jackson R., Jersey City, N. J., assignor to National Safety Car Bearing Company, of New York. Car-axle-box lid	270,172	Jan. 2	406	118	23	82
Baker, James, St. Louis, Mo. Velocipede	273,007	Feb. 27	1805	505, 506	23	777
Baker, James, St. Louis, Mo. Washing-machine	286,109	Oct. 2	405	111	25	75
Baker, James E., Madison, Wis. Balanced slide-valve	286,573	Oct. 16	996	269	25	197
Baker, James E., Chicago, Ill. Device for promoting combustion in furnaces	284,035	July 31	2135	586	24	396
Baker, James H., Westville, Ohio. Die and die-block for forge-hammers	280,998	July 10	813	226	24	150
Baker, John C., *et al.* (See Packham, Frank R., assignor.)						
Baker, John G., assignor to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Mechanism for cutting up plastic or yielding substances	271,398	Jan. 30	1949	564	23	392
Baker, John G., assignor to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Cutting up plastic or yielding substances	271,399	Jan. 30	1952	565	23	392
Baker, John G., assignor to Enterprise Manufacturing Company, Philadelphia, Pa. Lard-press and sausage-stuffer	275,567	Apr. 10	916	248	23	1391
Baker, John G., assignor to Enterprise Manufacturing Company, Philadelphia, Pa. Cherry-stoner	276,331	Apr. 24	1888	524	23	1572
Baker, John J. (See Meltzer and Baker.)						
Baker, John S., *et al.* (See Burns and Buckman, assignors.) (Reissue.)						
Baker, John W., Baltimore, Md. Gas-burning stove	285,376	Sept. 25	1492	420	24	1182
Baker, Loring J., Boston, Mass. Roller-skate	280,338	July 3	1	1	24	3
Baker, Loring J., assignor of one-half to F. P. Baker and J. W. Clark, Boston, Mass. Boat-plug	277,102	May 8	746	196	23	1759
Baker, M. R. (See Hedge and Noble, assignors.)						
Baker Manufacturing Company, Seth W. (See Mason, Lowell C., assignor.)						
Baker, Pratt & Co. (See Munger, George, assignor.)						
Baker, Ransom R., Buffalo, N. Y. Album and book clasp	278,762	June 5	106	30	23	2141
Baker, Samuel, Buffalo, N. Y. Whip-holder	284,995	Sept. 18	1033	289	24	1095
Baker, Sanford J., Oakland, Me. Hay-knife	288,198	Nov. 13	508	141	25	605
Baker, Sanford J., West Waterville, Me., assignor of one-third to J. H. Mandeville, Washington, D. C. Hay-knife	276,951	May 1	545	142	23	1719
Baker, Theodore P. (See Park, Aaron, assignor.)						
Baker, Thomas, Aston, near Birmingham, and W. M. Scott, Birmingham, county of Warwick, England; said Baker assignor to said Scott. Cartridge	271,565	Jan. 30	2163	623	23	429
Baker, Walter. (See Thomas and Baker.)						
Baker, William D., Rockland, Mass. Projectile for carrying and discharging oil	272,400	Feb. 20	1026	287	23	635
Baker, William H. (See Knight and Baker.)						
Baker, William H., assignor of six-tenths to A. Lent, D. C. Barber, and T. H. Rice, Oxford, Mich. Draft-equalizer	275,321	Apr. 3	560	153	23	1321
Baker, William H., assignor of six-tenths to A. Lent, D. C. Barber, and T. H. Rice, Oxford, Mich. Draft-equalizer	275,322	Apr. 3	561	153	23	1321
Baker, William H. H., Freeport, Ill. Snow-plow	281,954	July 24	2036	557	24	374
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Grain-binder	283,744	Aug. 28	1542	436, 437	24	804
Baker, William R., and H. E. Pridmore, assignors to McCormick Harvesting Machine Company, Chicago, Ill. Harvester	275,977	Apr. 17	1430	395	23	1488
Baker, William S. G., Baltimore, Md. Car-axle box	276,210	Apr. 24	1721	476	23	1545
Baker, William S. G., Baltimore, Md. Car-axle box	282,149	July 31	2299	631	24	422
Baker, William T., assignor of two-thirds to R. Marvin and J. Shull, Findlay, Ohio. Steam-engine	280,710	July 3	445	127	24	80
Baker, Wilson M. (See Packard, Wales A., assignor.)						
Baker, Wilson M., Urbana, Ohio. Reshipping packing-box	272,513	Feb. 20	1172	327, 328	23	659
Bakewell, Thomas, trustee. (See Bissell, Simeon, assignor.)						
Bakewell, William H., Allegheny City, Pa. Camp-chair and cot	280,004	June 26	1717	481	23	2438
Balch, Alfred. (See Tomlinson and Balch.)						
Balch, Lewis. (See Armstrong and Waite, assignors.)						
Balderston, C. Canby, Westtown, and C. Balderston, Philadelphia, Pa. Car coupling and buffer	287,084	Oct. 23	1652	453	25	319
Balderston, Charles. (See Balderston, C. Canby and C.)						
Baldridge, Herman, Los Angeles, Cal. Churn	277,103	May 8	747	196	23	1760
Baldwin, A. C. (See Clemons, Thomas F., assignor.)						
Baldwin, A. C. (See Trier, Frank, assignor.)						
Baldwin, Andrew J. (See Baldwin and Geise.)						
Baldwin, Benjamin W., Pittsburg, Pa. Journal-box	283,950	Aug. 28	1795	508	24	850
Baldwin, Byron, New York, N. Y. Corset-lacing	273,798	Mar. 13	724	196	23	967
Baldwin, Charles E. (See Beard and Baldwin.)						
Baldwin, Charles E., New York, N. Y., assignor of one-half to C. Beard. Copying-roller	274,549	Mar. 27	1702	472	23	1149
Baldwin, Charles E., assignor of one-half to C. Beard, New York, N. Y. Lamp-wick cleaner	278,075	May 22	1899	520	23	1972
Baldwin, Charles E., assignor of one-half to C. Beard, New York, N. Y. Apparatus for taking proof	278,848	June 5	240	69	23	2164
Baldwin, Charles S., assignor to Goodyear's Metallic Rubber Shoe Company, Naugatuck, Conn. Overshoe	286,761	Oct. 16	1236	334	25	239
Baldwin, Charles W., assignor to E. F. Allen, Denver, Colo. Hoisting device	277,403	May 8	1098	295	23	1821
Baldwin, Cyrus W., Chicago, Ill. Elevator	276,332	Apr. 24	1889	524	23	1573
Baldwin, Cyrus W., Chicago, Ill. Lubricator	287,085	Oct. 23	1653	454	25	319

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Baldwin, Cyrus W., Chicago, Ill. Gas-engine	287,897	Nov. 6	135	40	25	531
Baldwin, Cyrus W., assignor to W. E. Hale, Chicago, Ill. Gas-engine	276,747	May 1	282	72	23	1673
Baldwin, Cyrus W., assignor to W. E. Hale, Chicago, Ill. Gas-engine	276,748	May 1	284	72, 73	23	1674
Baldwin, Cyrus W., assignor to W. E. Hale, Chicago, Ill. Gas-engine	276,749	May 1	285	73	23	1674
Baldwin, Cyrus W., assignor to W. E. Hale, Chicago, Ill. Gas-engine	276,750	May 1	288	74	23	1674
Baldwin, Cyrus W., assignor to W. E. Hale, Chicago, Ill. Gas-engine	276,751	May 1	291	74, 75	23	1075
Baldwin, Cyrus W., assignor to W. E. Hale, Chicago, Ill. Gas-engine	288,396	Nov. 13	776	209, 210	25	650
Baldwin, Cyrus W., assignor to W. E. Hale, Chicago, Ill. Gas-engine	290,310	Dec. 18	1166	326, 327	25	1108
Baldwin, Dewitt C., Onondaga, Mich. Excavator	283,951	Aug. 28	1796	508	24	850
Baldwin, Eben A., North Andover, Mass. Self-acting mule	272,401	Feb. 20	1027	287, 288	23	635
Baldwin, Elizabeth P. (See Bate, William A., assignor.)						
Baldwin, Frank S., and P. A. Migasi, St. Louis, Mo. Rein-holder	276,655	May 1	143	36	23	1651
Baldwin, George H., Hollidaysburg, Pa. Gas-furnace. (Reissue)	10,329	May 22	2219	608	23	2027
Baldwin, James M., New York, N. Y. Fabric for furniture and wall coverings	288,294	Nov. 13	623	171	25	624
Baldwin, James S., assignor to H. C. McDougall, Newark, N. J. Toy mortar	283,847	Aug. 28	1667	470	24	826
Baldwin, John B. (See Magreevy, William P., assignor.)						
Baldwin, John M., Sidney, N. J. Sash-holder	275,456	Apr. 10	777	208	23	1367
Baldwin, John W., A. J., and M. H., Jr., and G. A. Geise, Dawson, Ga. Gin-house	283,187	Aug. 14	853	238, 239	24	658
Baldwin, Joseph J., Baltimore, Md. Step-ladder	283,555	Aug. 21	1308	366	24	749
Baldwin, Joseph J., Baltimore, Md. Step-ladder	289,059	Nov. 27	1592	440	25	808
Baldwin, Judson A., Shelburne, Vt. Door-latch	276,333	Apr. 24	1891	525	23	1573
Baldwin, Judson A., Shelburne, Vt. Refrigerator	276,752	May 1	293	75	23	1676
Baldwin, Marcellus O., Kansas City, Mo. Reclining-chair	270,724	Jan. 16	.1114	318, 319	23	233
Baldwin, Marcellus O., Kansas City, Mo. Car-wheel	276,211	Apr. 24	1723	477	23	1546
Baldwin, Marcellus O., assignor of one-half to H. A. Dorr, Kansas City, Mo. Chair-support and footstool	274,877	Mar. 27	2094	581	23	1217
Baldwin, Marcellus O., assignor of one-half to H. A. Dorr, Kansas City, Mo. Car-axle	275,323	Apr. 3	562	153	23	1321
Baldwin, Moses H., Jr. (See Baldwin and Geise.)						
Baldwin, Nathan H., Laconia, assignor of one-half to R. M. Appleton, Lake Village, N. H. Necktie-fastener	270,173	Jan. 2	407	118	23	83
Baldwin, Otis M. (See West, John C., assignor.)						
Baldwin, Ozro J., North Clarendon, Pa. Sleigh-shoe	286,371	Oct. 9	747	200	25	146
Baldwin, Ransom G., Oskaloosa, Iowa. Washing-machine	285,550	Sept. 25	1697	479	24	1219
Baldwin, Ruel S., Sparta, Wis. Machine for forming wire springs	273,933	Mar. 13	894	244	23	995
Baldwin, Sidney M. (See Higgins, Walter B., assignor.)						
Baldwin, William, Marion, Ind. Plashed fence	274,895	Apr. 3	6	2	23	1228
Baldwin, William F., Grayville, Ill. Plow-point	271,593	Feb. 6	10	3	23	442
Bales, Thomas M., and J. A. Jackson; said Bales assignor to W. Hemphill, Des Moines, Iowa. Cockle-machine and grain-separator	282,036	July 31	2136	586	24	396
Ball, Albert. (See Cartmell and Ball.)						
Ball, Albert, Claremont, N. H. Emery-wheel	277,659	May 15	1410	380	23	1880
Ball, Albert, Canton, Ohio. Plow-point	289,797	Dec. 11	530	148	25	985
Ball, Albert, Canton, Ohio. Sulky-plow	289,798	Dec 11	531	148	25	985
Ball, Alonzo C., and B. H. Tripp, Gallatin, Mo. Churn	271,566	Jan. 30	2164	623	23	429
Ball, Charles A. (See Groesbeck, Sterling, Ball, and Wright.)						
Ball, Charles E., Philadelphia, Pa. Electric gas-generator	272,187	Feb. 13	746	206	23	581
Ball, Charles E., Philadelphia, Pa. Dynamo-electric machine	278,076	May 22	1900	520	23	1973
Ball, Charles E., Philadelphia, Pa. Dynamo-electric machine	284,357	Sept. 4	243	67, 68	24	945
Ball, Charles E., Philadelphia, Pa. Armature for electric motors	285,547	Sept. 25	1695	478	24	1219
Ball, Charles E., Philadelphia, Pa. Dynamo-electric machine	285,548	Sept. 25	1696	478	24	1219
Ball, Charles E., Philadelphia, Pa. Dynamo-electric machine	285,549	Sept. 25	1696	478	24	1219
Ball, Charles H., Toledo, Ohio. Box-fastener	290,729	Dec. 25	1732	478	25	1214
Ball, Charles O., Lowell, Mass. Station-indicator	278,469	May 29	2458	670	23	2078
Ball, Clinton M., assignor to himself and J. B. Tibbits, Troy, N. Y. Electric lamp	281,229	July 17	1110	306	24	210
Ball, Clinton M., Troy, assignor to himself and J. B. Tibbits, Hoosic, N. Y. Magneto-electric machine	290,199	Dec. 18	1021	288	25	1063
Ball, Cortland, Indianapolis, Ind. Polishing-iron	277,193	May 8	860	228	23	1779
Ball, Flamen, Jr., Cincinnati, Ohio. Electric head-light for locomotives, &c	277,536	May 15	1266	339	23	1856
Ball, Frank H., Erie, Pa. Steam-engine governor	284,164	Sept. 4	4	2	24	905
Ball, George F. (See Higinbotham and Ball.)						
Ball, Jacob, Waterloo, Ontario, Canada, assignor of two-thirds to J. S. Chase and C. M. Martin, Greenville, Mich. Grub-pulling machine	274,550	Mar. 27	1703	473	23	1149
Ball, Jacob, assignor of one-half to J. S. Chase, Greenville, Mich. Feed-water regulator	278,077	May 22	1901	521	23	1973
Ball, James A. (See Moore, Jonathan J., assignor.)						
Ball, John A., Oakland, Cal. Trunk	281,955	July 24	2038	557	24	374
Ball, John A., Oakland, Cal. Disintegrating-hopper for dredgers and excavators	285,340	Sept. 18	1437	406	24	1167
Ball, John W., and H. Clark, Baltimore, Md. Machinery for breasting the heels of boots and shoes	282,255	July 31	2430	668	24	444
Ball, R. Edward, New York, N. Y. Dynamo-electric machine	279,476	June 12	1065	300	23	2315
Ball, R. Edward, New York, N. Y. Dynamo-electric machine	280,439	July 3	128	34	24	24
Ball, Richard, Boston, Mass. Trunk-carrier	286,372	Oct. 9	748	200	25	146
Ball, Thomas H., *et al.* (See Gardner, Marshall, assignor.)						
Ball, Warren J., Canton, Ohio. Car-axle-box lid	281,173	July 10	1026	287	24	188
Ball, Wilber W., assignor of one-half to J. B. Carter and O. L. Moulder, Kokomo, Ind. Mower	279,074	June 5	565	155	23	2220
Ballagh, Andrew H., assignor of one-third to J. W. Dunnaway, Macon, Mo. Baling-press	277,439	May 15	1151	309	23	1837
Ballard, Dewitt C., Centreville, Mont. Ter. Tongue-support	283,188	Aug. 14	855	239	24	658
Ballard, George W., Hunter's Springs, W. Va. Seeding-machine	281,331	July 17	1242	344	24	232
Ballard, Ira L., and J. W. Craig, Mechum's River, Va. Railway-gate	285,951	Oct. 2	221	62	25	42
Ballard, Martin L., Georgetown, Ky. Bottle-stopper	283,692	Aug. 21	1471	414	24	780
Ballard & Son, J. A. (See Harris, James W. and S., assignors.)						
Ballatschano, Constantin, *et al.* (See Trenk, Heinrich, assignor.)						
Ballatschano, Jean, *et al.* (See Trenk, Heinrich, assignor.)						
Ballou, Barton A., Providence, R. I. Pin	267,086	Oct. 23	1654	454	25	319
Ballou, Edward F., Marlborough, Mass. Roller for skates	285,783	Oct. 2	6	2	25	4
Ballou, George F., Waltham, Mass. Electric device for winding clocks	277,104	May 8	748	197	23	1760
Ballou, Hiram P., Needham, Mass., assignor, by mesne assignments, to himself, G. E. Nye, Bristol, Pa., and M. H. A. Evans, Graniteville, Mass. Circular-rib knitting-machine	284,591	Sept. 11	529	150	24	999
Ballou, John, Somerville, Mass. Grate	286,574	Oct. 16	996	270	25	197

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Ballou, Walter, North Attleborough, Mass. Roller-chain	277,194	May 8	861	229	23	1779
Baltzell, Charles, Cumberland, Md. Corn-harvester	277,660	May 15	1411	380 381	23	1880
Baltzell, Frank. (See Burdine, William B., assignor.)						
Baltzell, Frank, Troy, Ala. Cotton cleaner and condenser	271,297	Jan. 30	1816	527	23	368
Balzer, John C., Southington, Conn. Method of and die for forging cutting-pliers	283,458	Aug. 21	1199	337	24	728
Bambach, Charles H., assignor of one-half to T. Bambach, Baltimore, Md. Neck-yoke	274,696	Mar. 27	1877	523	23	1181
Bambach, Thomas. (See Bambach, Charles H., assignor.)						
Bancroft, George D., Springfield, assignor to T. Merrick, Holyoke, Mass. Apparatus for moistening air in buildings	287,898	Nov. 6	138	40	25	532
Bancroft, J. Sellers, and W. H. Thorne, assignors to W. Sellers, Philadelphia, Pa. Machine for sharpening drills	270,365	Jan. 9	642	190	23	136
Bancroft, J. Sellers, and W. H. Thorne, assignors to W. Sellers, Philadelphia, Pa. Drill	270,366	Jan. 9	648	190 191	23	136
Bancroft, William, Wilmington, Del. Blotter-tablet	272,188	Feb. 13	747	206	23	581
Bandelier, Louis E., New Haven, Ind. Traction-engine	280,999	July 10	814	226 227	24	151
Bandman, Charles J., assignor of one-half to R. Deeves, New York, N. Y. Fire-proof ceiling	270,623	Jan. 16	992	284	23	209
Bane, James R., Gilroy, Cal. Rotary harrow	272,112	Feb. 13	665	181	23	566
Bane, James R., Gilroy, Cal. Combined harrow, roller, and seeder	284,709	Sept. 11	679	191 192	24	1025
Bane, James R., Gilroy, Cal. Horse hay-rake	284,996	Sept. 18	1034	289 290	24	1095
Banes, Howard. (See McGrory, Thomas, assignor.)						
Bang, Ivar A., and C. A. Sanguinetti, Marseilles, France. Decolorizing vegetable oils	287,216	Oct. 23	1822	.....	25	349
Bang, Ivar A. F., and J. De Castro, Paris, France. Treating acid or partly acid fatty bodies	290,835	Dec. 25	1865	.....	25	1237
Bangert, John D., Baltimore, Md. Machine for mixing and aerating flour	274,697	Mar. 27	1878	523 524	23	1181
Bangs, David E., Medford, Mass. Valve for vapor-burners	277,661	May 15	1413	382	23	1880
Banister, James A. (See Denny, John W., assignor.)						
Banks Button Hole Machine Company. (See Banks, Charles M., assignor.)						
Banks, Charles E., and J. W. Chestnut, New Castle, Pa. Dinner-pail	284,592	Sept. 11	530	150	24	1000
Banks, Charles M., assignor to Banks Button Hole Machine Company, (limited,) Philadelphia, Pa. Button-hole attachment for sewing-machines	286,989	Oct. 23	1530	421 422	25	295
Banks, Charles M., assignor to Banks Button Hole Machine Company, (limited,) Philadelphia, Pa. Button-hole sewing-machine	287,217	Oct. 23	1823	499 500	25	349
Banks, George, Oakfield, Mich. Hame-fastener	280,554	July 3	260	70	24	47
Banks, John, New York, N. Y. Bread-cutter	284,798	Sept. 11	791	221	24	1044
Banks, John M., Birmingham, county of Warwick, England. Fastening for bracelets and necklets	277,537	May 15	1267	340	23	1856
Banks, Joseph H., New York, N. Y. Steam-trap	271,400	Jan. 30	1953	565	23	392
Banks, William H., assignor of one-half to F. W. Schultz, Baltimore, Md. Roach-trap	272,372	Feb. 13	973	271	23	621
Bannigan, Augustus. (See Seymour and Bannigan.)						
Banning, Carina B., assignor, by mesne assignments, to herself and R. A. Murray, Boston, Mass. Dust-pan	275,012	Apr. 3	170	46	23	1255
Banning, Hubert A., New York, N. Y. Brake-shoe	271,207	Jan. 30	1707	495	23	349
Banning, Hubert A., New York, N. Y. Car-brake shoe	274,896	Apr. 3	7	2	23	1228
Bannister, Henry D., Chicago, Ill., assignor of one-half to R. H. Smith, Pittsburg, Pa. Draft-regulator	288,914	Nov. 20	1410	388	25	770
Bannister, Lemuel, Philadelphia, Pa. Grate	272,514	Feb. 20	1173	328	23	660
Bannister, Lemuel, Philadelphia, Pa. Grate	272,515	Feb. 20	1174	328	23	660
Bannister, Lemuel, Philadelphia, Pa. Grate	272,937	Feb. 27	1727	482	23	763
Bannister, Lemuel, Philadelphia, Pa. Grate	273,437	Mar. 6	254	68, 69	23	877
Bannister, Lemuel, Philadelphia, Pa. Conduit for electric conductors	282,833	Aug. 7	427	121	24	576
Bannwart, Alex. (See Egli, Rudolf, assignor.)						
Bapple, James W., Sedalia, assignor of one-half to J. Englaender, St. Louis, Mo. Combined self-dropping corn-planter and check-rower	283,459	Aug. 21	1200	337	24	729
Barbé, J. Emile, Paris, France. Toy pistol with numerical combination	285,099	Sept. 18	1162	325	24	1117
Barbe, Paul, Paris, France, assignor to Dynamite Nobel Société, Anonyme, Isleten, Uri, Switzerland. Water-proof cartridge	273,934	Mar. 13	895	245	23	995
Barber, Charles E., Syracuse, N. Y. Pump	274,551	Mar. 27	1704	473	23	1149
Barber, D. Fletcher, Newton, assignor of one-half to A. M. Gardner, Boston, Mass. Hand-drill	284,799	Sept. 11	793	221	24	1044
Barber, Daniel C., *et al.* (See Baker, William H., assignor.)						
Barber, Edward. (See Barber, Thomas T. and E.)						
Barber, Emmet N., Kent, Ohio. Lumber-measure	287,995	Nov. 6	263	75	25	553
Barber, Harvey P., Malden, Ill. Butter-package	285,950	Oct. 2	221	62	25	42
Barber, Henry A., Watertown, N. Y. Exhausting the air, gases, and water from suction-boxes for paper-making machines	280,555	July 3	260	70	24	47
Barber, J. B., *et al.* (See Charboneau, Pascal B., assignor.)						
Barber, James R. (See Abel, William G., assignor.)						
Barber, Quincy. (See Wakefield, Nathan S., assignor.)						
Barber, Robert T., and J. Raker, Mifflinburg, Pa. Composition for preserving leather	289,880	Dec. 11	636	.....	25	1004
Barber, Thomas T. and E., Hopkinton, R. I. Wagon-jack	270,924	Jan. 23	1357	391	23	284
Barber, Wanton C., assignor to himself and J. S. Green, Villisco, Iowa. Car-coupling	273,438	Mar. 6	255	69	23	877
Barbour, Charles, Tarentum, Pa. Glass-smoothing machine	289,747	Dec. 4	473	134	25	969
Barbour, E. Russell, Portland, Me., assignor to C. S. Knowles, Boston, and F. F. Raymond, 2d, trustee, Newton, Mass. Hose-strap and means of attachment	289,600	Dec. 4	286	80	25	938
Barclay, John, Providence, R. I. Band-bracelet	289,371	Dec. 4	2	1	25	887
Barclay, William P., Chicago, Ill. Car-wheel boring and truing machine	271,680	Feb. 6	112	31	23	459
Barclay, William P., Chicago, Ill. Chilled car-wheel boring and truing machine	283,367	Aug. 21	1093	307 308	24	709
Barcus, Willard E., Vineland, N. J. Molasses-measure	274,698	Mar. 27	1880	524	23	1181
Bardeen, Amy, Blackstone, Mass. Grain-elevator	283,189	Aug. 14	855	239	24	659
Bardez, Frank, San Francisco, Cal. Molding-machine for foundry use	287,996	Nov. 6	265	75	25	553
Barditzky, Hermann. (See Brandenburger, Tirre, and Barditzky.)						
Barditzky, Hermann, assignor of two-thirds to A. Brandenburger and W. Tirre, St. Louis, Mo. Mining-machine	280,781	July 10	560	157	24	156
Bardo, Peter N., and T. Ford, Newport, Ky., assignors to Bourbon Copper and Brass Works, Cincinnati, Ohio. Cooler for mash and other liquids	270,367	Jan. 9	652	191	23	137
Bardwell, Carlos. (See Nolan, Patrick W., assignor.)						
Bardwell, Horatio C., New York, N. Y. Folding bedstead	276,212	Apr. 24	1724	477	23	1546

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bardwell, Lucian P., Marion, Iowa. Printer's roller	271,567	Jan. 30	2165	624	23	429
Barff, Frederick S., Kilburn, county of Middlesex, G. and A. S. Bower, St. Neots, county of Huntingdon, England, said Barff assignor to said G. and A. S. Bower. Furnace for effecting the protection of iron and steel surfaces	273,799	Mar. 13	725	197	23	967
Barff, Frederick S., Kilburn, county of Middlesex, and A. P. Wire, Leytonstone, county of Essex, England. Preparation of extracts of meat	273,800	Mar. 13	727	.....	23	967
Barker, David N., Broadalbin, N. Y. Draft-bar for sleighs	285,377	Sept. 25	1494	420	24	1182
Barker, Erastus B., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic camera-box	272,622	Feb. 20	1310	365 366	23	684
Barker, Erastus B., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic shield	273,008	Feb. 27	1807	506	23	777
Barker, Erastus B., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic camera-box	283,952	Aug. 28	1797	508	24	850
Barker, Frank W., Chelsea, Mass. Cradle	274,454	Mar. 27	1567	429	23	1127
Barker, George F., assignor to W. J. Philips, Philadelphia, Pa. Electrical conductor	274,699	Mar. 27	1881	524	23	1182
Barker, Henry C., Sedalia, Mo. Brick-machine	274,700	Mar. 27	1883	524 525	23	1182
Barker, James, Emory, Tex. Combined rotary harrow and stalk-cutter or roller	273,009	Feb. 27	1808	506	23	778
Barker, Jared P., Le Roy, N. Y. Stove-pipe elbow	287,494	Oct. 30	2170	589	25	421
Barker, John, assignor of one-half to A. C. Brown, Philadelphia, Pa. Ferrule for handles	277,404	May 8	1099	295	23	1821
Barker, John L., assignor to S. Freeman & Sons, Racine, Wis. Brake-lever	270,174	Jan. 2	407	118	23	83
Barker, Joseph R., Summerfield, Ala. Machine for hulling and cleaning peas	273,010	Feb. 27	1809	506 507	23	778
Barker, Richard, London, county of Middlesex, England. Apparatus for extracting gold and silver from their ores	273,011	Feb. 27	1810	507	23	778
Barker, Richard, London, county of Middlesex, England. Apparatus for extracting gold and silver from their ores	276,997	May 8	609	160	23	1736
Barker, Robert F., Boston, Mass. Carding-machine	287,405	Oct. 30	2060	560	25	400
Barker, Tom B. (See Ewins, James A., assignor.)						
Barker, Volney, Portland, Me. Can-washing machine	282,434	July 31	2664	730 731	24	485
Barker, William C., Philadelphia, Pa. Packing-case, box, &c	279,689	June 19	1341	373	23	2366
Barkow, Herman, Milwaukee, Wis. Truck	288,687	Nov. 20	1135	312	25	719
Barley, James H., Sedalia, Mo. Harrow	270,536	Jan. 9	871	253	23	180
Barlow, Solomon Q., Petaluma, Cal. Farm-gate	289,800	Dec. 11	533	149	25	986
Barlow, Warren S., Paterson, N. J. Door-spring	270,368	Jan. 9	653	192	23	137
Barlow, Warren S., Paterson, N. J. Door-brake	284,358	Sept. 4	244	68	24	946
Barna, Thomas M., Atlanta, Ga. Cotton-planter	270,369	Jan. 9	654	192	23	137
Barnaby, Charles W., assignor of one-half to Buckeye Engine Company, Salem, Ohio. Eccentric	287,406	Oct. 30	2061	560	25	400
Barnard, Charles S., assignor of one-half to J. Preston and A. Jones, New York, N. Y. Toy bank	272,189	Feb. 13	748	206	23	581
Barnard, Daniel G., Winslow, N. J. Adjustable double telephone-receiver	280,116	June 26	1851	522	23	2462
Barnard, Daniel G., Winslow, N. J. Glass-annealing furnace	285,551	Sept. 25	1698	479	24	1220
Barnard, Edward, Rome, N. Y. Horse-boot	285,552	Sept. 25	1700	479	24	1220
Barnard, George D. (See Welch, Reuel H., assignor.)						
Barnard, Heman A., assignor to Barnard & Leas Manufacturing Company, Moline, Ill. Flour-packer	274,878	Mar. 27	2095	582	23	1217
Barnard, Henry H., assignor to M. B. Alling, Rochester, N. Y. Chuck	271,208	Jan. 30	1708	495	23	349
Barnard, Henry L., Greenfield, Mass. Fire-escape	278,763	June 5	106	30	23	2142
Barnard & Leas Manufacturing Company. (See Barnard, Heman A., assignor.)						
Barnard & Leas Manufacturing Company. (See Cornwall, John B., assignor.)						
Barnard & Leas Manufacturing Company. (See Hanson and Leas, assignors.)						
Barnard, William G., Bellaire, Ohio. Apparatus for loading coal	285,952	Oct. 2	222	62	25	43
Barnes, Abram. (See Dale and Barnes.)						
Barnes, Alden, Bloomington, Ill. Anchor for corn-planter check-row lines	272,402	Feb. 20	1031	289	23	635
Barnes, Avon. (See Cunningham, Peter B., assignor.)						
Barnes, Benjamin F. (See Barnes, John and B. F.)						
Barnes, Charles, Dayton, Ky. Shaft-coupling	275,877	Apr. 17	1323	364	23	1468
Barnes, Charles A., West Liberty, Iowa. Tile-laying machine	285,206	Sept. 18	1289	363	24	1139
Barnes, Charles E., Melrose, and A. C. Winn, Somerville; said Barnes assignor to J. H. Winn, Winchester, Mass. Cord-braiding machine	290,624	Dec. 18	1585	436	25	1180
Barnes, Charles T., Chicago, Ill. Grate and lining	281,658	July 24	1655	451	24	307
Barnes, Elbridge F., New Haven, Conn. Combined pipe-tongs and wrench	282,256	July 31	2431	669	24	445
Barnes, Elbridge F., New Haven, Conn. Pipe-cutter	282,435	July 31	2669	731	24	486
Barnes, Elbridge F., New Haven, Conn. Pipe-cutter	287,899	Nov. 6	139	41	25	532
Barnes, Elmore A., Pittsburg, Pa. Making shovels	284,710	Sept. 11	681	192	24	1026
Barnes, George L., North Haven, Conn. Friction-clutch	285,870	Oct. 2	111	33	25	22
Barnes, George R., Boaz, Wis. Churn	272,516	Feb. 20	1175	328	23	660
Barnes, Harry W., Bristol, Conn. Gong-bell	286,169	Oct. 9	476	131	25	99
Barnes, Henry C., Swanton, Vt. Barrel-cover	289,206	Nov. 27	1770	491	25	841
Barnes, Howard C. (See Randall, William W., assignor.)						
Barnes, J. L., *et al.* (See Henry, John C., assignor.)						
Barnes, Jackson. (See Johnson and Barnes.)						
Barnes, John. (See Barnes, William F. and J.)						
Barnes, John and B. F., assignors to W. F. & J. Barnes, Rockford, Ill. Feed mechanism for drills	270,537	Jan. 9	872	254	23	180
Barnes, John C., *et al.* (See Miller, Charles C., assignor.)						
Barnes, John H., assignor to Barnes Manufacturing Company, New Haven, Conn. Cylinder-lock	285,207	Sept. 18	1290	363	24	1140
Barnes, John L., Hecla, Ind. Cider-press	277,195	May 8	861	229	23	1779
Barnes, Joseph C., Albany, N. Y. Cooking-range	280,782	July 10	563	157	24	106
Barnes, Joshua B., Fort Wayne, Ind. Two-wheeled vehicle	283,061	Aug. 14	701	197	24	632
Barnes Manufacturing Company. (See Barnes, John H., assignor.)						
Barnes Manufacturing Company. (See Priddy, Thomas B., assignor.)						
Barnes, Mary K., Chicago, Ill. Show-stand	289,799	Dec. 11	532	149	25	986
Barnes, Merrick M., Boston, Mass. Micrometer indicating-gage	271,401	Jan. 30	1954	565	23	393
Barnes, Merrick M., Boston, Mass. Micrometer-calipers	280,339	July 3	2	1	24	3
Barnes, Monroe, Bloomington, Ill. Corn-planter check-rower	279,119	June 12	647	177	23	2244
Barnes, Monroe, Bloomington, Ill. Two-wheeled vehicle	281,429	July 17	1360	375	24	252
Barnes, Monroe, Bloomington, Ill. Anchor for check-row lines	289,372	Dec. 4	3	1	25	887
Barnes, N. A., *et al.* (See Pearce, William, assignor.)						
Barnes, Thomas C., Logansport, Ind. Diamond millstone-dressing machine	286,251	Oct. 9	579	159	25	116

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Barnes, W. F. & John. (See Barnes, John and B. F., assignors.)						
Barnes, William C., Southbridge, Mass. Eyeglasses	282,946	Aug. 14	562	159	24	607
Barnes, William F. and J., Rockford, Ill. Drilling-machine	285,726	Sept. 25	1915	543, 544	24	1259
Barnes, William H., Independence, Kans. Live-stock loader	286,575	Oct. 16	997	270	25	197
Barnes, William H., Independence, Kans. Fire-escape	288,155	Nov. 6	444	125	25	585
Barnes, Willis A. (See McDougall, Samuel T., assignor.)						
Barnes, Wilson, Maquoketa, Iowa. Windmill	275,457	Apr. 10	778	208	23	1367
Barnett, John, New York, N. Y. Plate-holder for photographic cameras	271,402	Jan. 30	1956	565	23	393
Barnett, Samuel W., Greenfield, Ind. Broom-support	270,624	Jan. 16	982	284	23	209
Barney Dumping Boat Company. (See Barney, Nathan, assignor.)						
Barney, Everett H., *et al.* (See Hunter, Alpheus S., assignor.) (Reissue.)						
Barney, Everett H., Springfield, Mass. Skate	274,253	Mar. 20	1299	357	23	1073
Barney, Everett H., Springfield, Mass. Skate	274,254	Mar. 20	1300	358	23	1073
Barney, Frank P., Norton, Mass. Machine for making chain-links from coiled wire	283,556	Aug. 21	1309	366, 367	24	749
Barney, Frank P., Norton, Mass. Process of and apparatus for manufacturing continuous lengths of coiled wire	283,557	Aug. 21	1312	367	24	749
Barney, Nathan, assignor to Barney Dumping Boat Company, Bergen Point, N. J. Dumping-scow	271,298	Jan. 30	1817	527	23	368
Barnhard, Elias, and A. F. Thomas, Troy, Ohio. Grain-divider for harvesters	282,947	Aug. 14	563	159	24	607
Barnhart, Cornelius, Walker Valley, N. Y. Turbine water-wheel	279,519	June 19	1142	316	23	2331
Barnhart, Daniel K., Gaines, Pa. Saw-table gage	271,018	Jan. 23	1476	425	23	302
Barnhart, Harvey P. (See Thatcher and Barnhart.)						
Barnhart, Henry M., and E. Huber, Marion, Ohio. Traveling crane	285,100	Sept. 18	1163	325, 326	24	1117
Barnhart, John H. (See Furey, Cyrus R., assignor.)						
Barnhurst, Henry R., Erie, Pa. Lumber-edging machine	272,190	Feb. 13	749	207	23	581
Barnhurst, Henry R., Erie, Pa. Saw-mill head-block	281,750	July 24	1777	484	24	327
Barnhurst, Henry R., and L. Skinner, Erie, Pa. Steam-engine governor	289,801	Dec. 11	534	149	25	986
Barnstead, Robert P., Boston, Mass. Coupling for faucets	289,601	Dec. 4	286	80	25	938
Barnum, Joseph I., New York, N. Y. Music-leaf turner	272,938	Feb. 27	1728	482, 483	23	763
Baron, Eugène, Paris, France. Decorative fabric	287,495	Oct. 30	2171	.....	25	421
Barr, Alexander T., Louisville, Ky. Coupling-gear for wagons	284,593	Sept. 11	531	151	24	1000
Barr, Charles H., Pittsburg, Pa. Combination-tool	288,397	Nov. 13	778	210	25	650
Barr, Charles H., assignor to T. B. Kerr, Pittsburg, Pa. Wire fence	289,207	Nov. 27	1771	491	25	841
Barr, Charles H., assignor of one-half to H. P. Pears, Pittsburg, Pa. Shoe-fastening	290,625	Dec. 18	1589	437	25	1180
Barr, George D., Greenville, S. C. Pepper cruet and mill	274,255	Mar. 20	1302	358	23	1073
Barr, Jacob N., Altoona, Pa. Car-wheel chill	279,520	June 19	1143	316	23	2332
Barr, Jacob N., Milwaukee, Wis. Contracting car-wheel chill	288,969	Nov. 27	1479	410	25	789
Barr, James S., Wheeling, W. Va. Compression-cock	285,953	Oct. 2	223	63	25	43
Barr, Nicholas, Cayuta, N. Y. Car-coupling	277,828	May 15	1603	438	23	1915
Barr, Samuel, Providence, R. I. Compound for coating gas-tubing, &c	276,998	May 8	610	.....	23	1737
Barr, William J., and J. L. Nelson, Chicago, Ill. Faucet	289,373	Dec. 4	4	2	25	887
Barratt, Henry, assignor of one-third to J. O. Miller, York, Pa. Fluid-pressure car-brake	283,368	Aug. 21	1095	308	24	709
Barratt, Henry, assignor of one-half to J. O. Miller, York, Pa. Car-brake	288,398	Nov. 13	778	210	25	650
Barrett, Charles F., New York, N. Y. Valve	285,871	Oct. 2	112	33	25	22
Barrett, Charles F., Valley Mills, Ind. Animal-trap	286,252	Oct. 9	581	159	25	116
Barrett, Cornelius S. (See Kimball and Barrett.)						
Barrett, Henry, London, England. Manufacture of stoppers for bottles, jars, &c	281,332	July 17	1243	344	24	232
Barrett, Henry, London, England. Manufacture of stoppers for bottles, jars, &c	281,333	July 17	1244	345	24	232
Barrett, Henry, London, England. Stopper for bottles, jars, &c	281,334	July 17	1245	345	24	232
Barrett, James, Boston, Mass. Soil and waste pipe	277,196	May 8	863	229	23	1779
Barrett, James, assignor of part to B. Dennie, Beallsville, Ohio. Car-coupling	279,317	June 12	875	243	23	2282
Barrett, James O., Erie, Pa. Vise	284,997	Sept. 18	1035	290	24	1096
Barrett, James O., Erie, Pa. Vise	286,990	Oct. 23	1532	422	25	295
Barrett, John A., assignor to Western Electric Company, Chicago, Ill. Galvanic battery	271,299	Jan. 30	1819	527	23	368
Barrett, John P. (See Wilkie, John E., assignor.)						
Barrett, John P., Chicago, Ill. Telephonic system	284,594	Sept. 11	532	151	24	1000
Barrett, John P., Chicago, Ill. Telephonic and telegraphic system	284,595	Sept. 11	533	151	24	1001
Barrett Machine Company. (See Clayton, George W., assignor.)						
Barrett, Robert, assignor of one-half to P. A. Fusz, St. Louis, Mo. Lift for plate-rolling mills	271,766	Feb. 6	217	60, 61	23	478
Barrett, William H., Chicago, Ill. Wagon-shaft	277,440	May 15	1152	309	23	1837
Barrick, Joshua, *et al.* (See Hill, Andrew L., assignor.)						
Barrick, Joshua, *et al.* (See Koehler, Charles A., assignor.)						
Barricklo, Andrew, Jersey City, N. J. Window-shade	276,152	Apr. 24	1653	456	23	1534
Barrie, Robert C., Philadelphia, Pa. Music-stand	274,166	Mar. 20	1188	327	23	1053
Barrington, George F., San Francisco, Cal. Strainer for water-faucets	275,978	Apr. 17	1432	395	23	1489
Barritt, William A. (See Steelman, Sophia, assignor.)						
Barron, Martin V. B., Eau Claire, Wis. Power-jack	287,792	Nov. 6	5	2	25	508
Barrows, Henry F., Attleborough, Mass. Roller-chain	277,976	May 22	1784	487	23	1952
Barrows, Hiram J., Armada, Mich. Cloth-measuring machine	289,602	Dec. 4	287	80, 81	25	938
Barrows, Howard A., Rochester, N. Y., and R. F. Cummings, Landrus, Pa. Oiler for car-wheels	286,762	Oct. 16	1236	334	25	239
Barrows, Martin T., Dundee, Ill. Can	279,521	June 19	1144	317	23	2332
Barry, Charlotte M. A., Boston, Mass. Corset	281,659	July 24	1657	451, 452	24	307
Barry, James A., Baltimore, Md., assignor of one-fourth to T. B. Harrison, Washington, D. C. Attachment for tobacco-smoking devices	281,430	July 17	1361	375	24	252
Barry, Joseph E., assignor of one-half to C. C. Marrin, New York, N. Y. Means or apparatus for obtaining motive power	274,256	Mar. 20	1303	358, 359	23	1074
Barry, Thomas P., Stillwater, N. Y. Paper-machine	285,954	Oct. 2	224	63	25	43
Barry, Thomas P., Stillwater, N. Y. Steam-valve	285,955	Oct. 2	226	63	25	43
Barse, Mills W. (See Miller and Howarth, assignors.)						
Barstow, George E., *et al.* (See Ingalls, William A., assignor.)						
Bartelous, Jacques V. M., Brussels, Belgium. Switching apparatus for telephone-lines	290,730	Dec. 25	1733	479	25	1214
Barter, Charles F., Mount Vernon, Ind. Fruit-can	289,374	Dec. 4	5	2	25	888
Barter, Thomas D., Boston, Mass. Circular outer garment	279,211	June 12	746	205	23	2261
Barth, Adam, *et al.* (See Showalter, Jeremiah, assignor.)						
Barth, Denton, *et al.* (See Showalter, Jeremiah, assignor.)						
Barth, Henry, Cincinnati, Ohio. Measuring device for paper-making machines	288,395	Nov. 13	624	171, 172	25	625
Barthel, Albrecht E., New York, N. Y. Lubricator	287,900	Nov. 6	140	41	25	532

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bartholomay, William. (See White, Van Rensselear G., assignor.)						
Bartholomew, Abram L. (See Sweet, William F., assignor.)						
Bartholomew, Samuel B., Springfield, Mass. Sewing-machine shuttle	269,998	Jan. 2	206	59	23	43
Bartholomew, Sidney W., Castalia, N. C. Cotton elevator and distributer	284,359	Sept. 4	245	68	24	946
Bartholomew, Thomas W., Danville, Pa. Revolving air-toy	272,846	Feb. 27	1614	451	23	745
Bartholomew, Thomas W., Danville, Pa. Revolving air toy	279,630	June 19	1269	352, 353	23	2354
Bartholomew, William, Doulton's Sanitary Engineering Works, Albert Embankment, county of Surrey, England. Water-waste preventer	288,758	Nov. 20	1226	335	25	735
Bartholomew, William N., Newton, Mass. Pencil-pointer	288,156	Nov. 6	444	125	25	585
Bartine, Joseph H., Etna, Mo. Combined table and cupboard	285,208	Sept. 18	1291	363	24	1140
Bartine, Stephen B., assignor of one-fourth to W. T. Brown, Tottenville, N. Y. Sunshade-hat	276,753	May 1	294	75	23	1676
Bartlett, Charles, Providence, assignor of one-half to F. J. Spencer, Pawtucket, R. I. Circuit-closer	281,603	July 17	1579	431, 432	24	288
Bartlett, Edward L. (See Laubach, Henry C., assignor.)						
Bartlett, F., *et al.* (See Held, August S., assignor.)						
Bartlett, Frederic, *et al.* (See Hazlett, Frederic B., assignor.)						
Bartlett, Frederic W., Buffalo, N. Y. Composite building material and the method of preparing the same	271,209	Jan. 30	1710	495	23	349
Bartlett, Frederick W., Buffalo, N. Y. Stone pavement	283,369	Aug. 21	1096	308	24	709
Bartlett, Frederick W., Buffalo, N. Y. Pavement	288,970	Nov. 27	1481	411	25	790
Bartlett, George P., Woburn, Mass. Globe for incandescent electric lamps	285,784	Oct. 2	6	2	25	4
Bartlett, James F., Cleveland, Ohio. Brush	269,910	Jan. 2	103	31	23	22
Bartlett, John W., Moline, Ill. Machine for shrinking tires on wheels	285,553	Sept. 25	1701	479, 480	24	1220
Bartlett, La Roy, assignor of one-half to H. H. Wellman, St. Louis, Mo. Nut-tapping machine	283,745	Aug. 28	1545	437	24	805
Bartlett, Samuel H. (See Waite and Bartlett.)						
Bartlett, Samuel H., and H. E. Waite, assignors to C. F. Livermore, New York, N. Y. Receiver for telephones	271,188	Jan. 23	1684	486	23	336
Bartlett, Samuel H., and H. E. Waite, assignors to Molecular Telephone Company, New York, N. Y. Telephone-receiver	287,896	Nov. 6	134	39	25	531
Bartlett, William D., Amesbury, Mass. Chimney cap or ventilator	272,517	Feb. 20	1176	329	23	660
Bartlett, William D., Amesbury, Mass. Vehicle-spring	280,117	June 26	1852	522	23	2463
Bartol, Henry W., Philadelphia, Pa. Manufacture of glucose or grape-sugar	276,334	Apr. 24	1892	.....	23	1573
Barton, Alexander M., Strickling, and P. Z. Davis, South Gabriel, Tex. Steam-engine, &c.	290,167	Dec. 11	977	276	25	1067
Barton, Charles C., Brooklyn, and J. A. Milliken, New York, N. Y. Piston fluid-meter	274,879	Mar. 27	2097	582, 583	23	1218
Barton, Charles C., New York, and J. Thomson, Brooklyn, assignors to M. T. Barton, New York, N. Y. Piston fluid-meter	285,209	Sept. 18	1292	363, 364	24	1140
Barton, Charles S., assignor to Rice, Barton & Fales Machine and Iron Company, Worcester, Mass. Paper-pulp-engine roll	273,801	Mar. 13	728	197	23	967
Barton, Edwin, assignor to C. Lambert, Paterson, N. J. Quilling-machine	271,403	Jan. 30	1957	566	23	393
Barton, Edwin, assignor to C. Lambert, Paterson, N. J. Machine for winding cops, quills, bobbins, &c.	272,623	Feb. 20	1312	366	23	685
Barton, John W., Emporia, Kans. Fence-post	270,370	Jan. 9	655	192	23	137
Barton, Maria T. (See Barton and Thomson, assignors.)						
Barton, Maria T. (See Thomson, John, assignor.)						
Barton, Robert. (See Searle, Thomas A., assignor.)						
Barton, William C., *et al.* (See Kennedy, Thomas H., assignor.)						
Barton, William H. H., Brockton, Mass. Self-registering thermometer	289,603	Dec. 4	289	81	25	938
Bartram, Charles E., Fredonia, N. Y. Knockdown fruit-barrel	281,230	July 17	1111	306	24	210
Basch, Frank, Columbus, Ohio. Machine for cutting and ripping seams	271,019	Jan. 23	1477	426	23	303
Basch, Frank, Columbus, Ohio. Shears for deseaming cloth and for other purposes	276,754	May 1	295	75	23	1676
Bascom, H. Clay, assignor to N. S. Vedder Pattern Works, Bascom, Galbraith & Co., Troy, N. Y. Heating-stove	283,953	Aug. 28	1798	509	24	850
Basford, Charles B., Malden, Mass., assignor of two-thirds to J. W. Dunham, Livermore Falls, Me., and C. H. Dunham, Boston, Mass. Commode attachment for wash-stands	290,168	Dec. 11	977	276	25	1067
Basford, Sumner, Bangor, Me. Tire-tightener	274,701	Mar. 27	1884	525	23	1182
Bashare, Milo. (See Nichols, Charles H., assignor.)						
Basinger, James M., assignor of one-fourth to Pratt & Letchworth, Buffalo, N. Y. Trace-coupling	272,624	Feb. 20	1314	366	23	685
Basinger, James M., assignor of one-fourth to Pratt & Letchworth, Buffalo, N. Y. Trace-coupling	283,320	Aug. 14	1016	285	24	689
Basinger, James M., assignor of one-fourth to Pratt & Letchworth, Buffalo, N. Y. Hame-tug	288,759	Nov. 20	1228	335	25	735
Bass, S. D., *et al.* (See Gossett, William J., assignor.)						
Bass, William E. (See Freese, Francis J., assignor.)						
Bassemir, John, Brooklyn, N. Y. Spittoon	272,518	Feb. 20	1177	329	23	660
Bassemir, John, Brooklyn, and L. R. Walker, New York, N. Y.; said Walker assignor to said Bassemir. Ornamental shaft for the ends of curtain-poles	286,521	Oct. 9	925	249	25	178
Bassett, Charles W. (See Kelly, Frank M., assignor.)						
Bassett, Edgar. (See Mount and Bassett.)						
Bassett, Franklin H. (See Bassett and Hutchins.)						
Bassett, George P., Cincinnati, Ohio. Bath-tub attachment	285,378	Sept. 25	1495	421	24	1182
Bassett, Judson L. and F. W., and A. E. Hutchins, Coldwater, Mich. Picture-exhibitor	280,556	July 3	262	71	24	47
Bassett, Norman C., Philadelphia, Pa. Metallic packing for piston-rods	271,300	Jan. 30	1820	528	23	369
Bassett, Norman C., Chicago, Ill. Hydraulic elevator	290,660	Dec. 25	1635	450	25	1195
Bassett, Royal M. (See Magowan and Bassett.)						
Bassett & Sherman. (See Snow, Azariah, assignor.)						
Bassford, Isaac F., Helena, assignor of one-half to P. A. Largey and L. Mantle, Butte City, Mont. Ter. Harvester-cutter	281,956	July 24	2039	558	24	374
Bassford, Isaac F., and M. Mahan, Butte City, Mont. Ter. Snap-hook	285,956	Oct. 2	227	64	25	43
Bassler, Joseph, San José, Cal. Riding-saddle	286,674	Oct. 16	1126	303	25	220
Bast, Theodor. (See Trerwiler and Bast.)						
Bastam, Fredric, Freeport, Ill., assignor of two-thirds to J. Maurer and J. Kralowetz. Plow-clevis	274,897	Apr. 3	8	2	23	1228
Bastnagel, Henry, *et al.* (See Muller, Antone, assignor.)						
Batchelder, Fred B., East Boston, Mass., assignor to Batchelder Machine Company, Portland, Me. Leather blacking, dressing, and finishing apparatus	271,971	Feb. 6	467	128	23	522
Batchelder, George G. (See Prior, Gilbert S., assignor.)						
Batchelder, James H., Chicago, Ill. Egg-carrier	283,954	Aug. 28	1799	509	24	850
Batchelder Machine Company. (See Batchelder, Fred B., assignor.)						
Batcheller, Alfred H. (See Fifield, John W. D., assignor.)						
Batcheller, Lucien B., assignor of one-half to M. A. Gokey, Rutland, Vt. Machine for sawing stone	288,296	Nov. 13	627	172	25	625

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Batchelor, Joseph F., Baltimore, Md. Telephone-receiver	281,000	July 10	815	227	24	151
Bate, Wallace H., assignor to W. E. Pierce, trustee, Boston, Mass. Bottle stopper and fastening	273,935	Mar. 13	896	245	23	995
Bate, Wallace H., Boston, assignor to himself and H. S. Bacon, Milford, Mass. Spring-seat	288,608	Nov. 13	1031	283	25	696
Bate, William A., assignor, by mesne assignments, of one-third to E. P. Baldwin, Yonkers, N. Y. Machine for flanging hats	284,711	Sept. 11	682	193	24	1026
Bate, William S., Boston, Mass. Barbed fence material	273,245	Mar. 6	3	1	23	835
Bateman, Daniel, Philadelphia, Pa. Card-grinding roll	269,821	Jan. 2	2	1	23	3
Bates, Edward M. (See Williams and Bates.)						
Bates, Edward P., Syracuse, N. Y. Fire-pot for boilers	273,012	Feb. 27	1811	507	23	778
Bates, Francis G., *et al.* (See Haskin, Uri, assignor.)						
Bates, Franklin P., Ansonia, Conn. Fifth-wheel	285,554	Sept. 25	1702	480	24	1220
Bates, Franklin P., Ansonia, Conn. Die and blank for the manufacture of fifth-wheels	287,407	Oct. 30	2062	560	25	400
Bates, Fred W., Adel, Iowa. Wire-fence nail	280,118	June 26	1853	522	23	2463
Bates, Hiram W., Boston, Mass. Carpet-beating machine	276,656	May 1	144	37	23	1651
Bates, Jasper, Thornbury, Ontario, Canada. Manual power	278,306	May 29	2227	611	23	2037
Bates, Joseph H., Walton, N. Y. Spreading-stick for hammocks	271,767	Feb. 6	218	61	23	478
Bates, John O. (See Cooley, Duane B., assignor.)						
Bates, Samuel D., Lewisburg, Pa. Harvester-rake	278,850	June 5	242	70	23	2164
Bates, Theodore C. (See Williams, Charles H., assignor.)						
Bates, Theodore C., North Brookfield, Mass. Corset-clasp fastening and protector	287,997	Nov. 6	267	75	25	553
Bates, Willard A., Princeton, Me. Necktie-fastener	275,878	Apr. 17	1324	364	23	1468
Bates, William H., *et al.* (See Lattimer, Francis, assignor.)						
Bates, William S., Chicago, Ill. Lumber-drier	280,440	July 3	130	34, 35	24	24
Batonnier, Eugène A., Vitry-le-François, France. Dyeing wood, cloth, &c., to imitate marble	270,371	Jan. 9	656	.....	23	137
Batson, Alonzo B., New Castle, Ind. Vegetable-slicer	279,212	June 12	747	205	23	2261
Batt, Charles F., Schuylkill, Chester county, Pa. Hoisting-pulley	278,078	May 22	1902	521	23	1973
Battershall, Jesse P., New York, N. Y. Extracting glycerine from the waste soap-liquor of soap-manufacture	276,551	May 1	8	.....	23	1628
Battin, Joseph M., Jr., assignor of one-half to W. A. Huff, Newark, N. J. Lubricator	279,120	June 12	648	177	23	2244
Battle, Daniel. (See Breanahan, Cornelius, assignor.)						
Battle, James. (See Tucker, Gaylon L., assignor.)						
Battle, Lucius L., Withe, Tenn. Corn-planter	288,399	Nov. 13	780	210	25	651
Battle, Marcus L., Bainbridge, Ga. Plow	282,694	Aug. 7	264	76	24	545
Battson, Arthur L., Morrisburg, Ontario, Canada. Press for sacking bran, sawdust, &c.	290,515	Dec. 18	1448	400	25	1157
Batty, Lindley M., Canton, Ohio. Fodder-cutter	272,403	Feb. 20	1032	289	23	636
Batty, William, assignor of one-half to G. H. Perkins, Philadelphia, Pa. Fire-brick	270,175	Jan. 2	408	.....	23	83
Bauder, George E., and A. M. Pease, Sanborn, Dak. Ter. Harness-pad block	278,079	May 22	1903	521	23	1973
Bauer, Cornelius, assignor of one-half to T. T. Haydock, Cincinnati, Ohio. Vehicle jump-seat	283,370	Aug. 21	1097	308	24	710
Bauer, Elkan, Vienna, Austria-Hungary. Process of and composition for the manufacture of substitutes for leather, horn, tortoise-shell, &c.	277,977	May 22	1784	.....	23	1952
Bauer, Ernst, Brooklyn, N. Y. Life-preserver	281,824	July 24	1880	513	24	346
Bauer, Ernst, assignor, by mesne assignments, to F. Cappel, Brooklyn, N. Y. Clothes-line fastener	282,601	Aug. 7	152	46	24	527
Bauer, Francis, and D. F. Kenney, Baltimore, Md. Privy and its attachments	273,439	Mar. 6	256	69	23	877
Bauer, Frederick E., Danbury, Conn. Fire-escape	284,360	Sept. 4	246	68	24	946
Bauer, Hermann, Schwaebisch-Gmünd, Germany, assignor to W. C. Edge, Newark, N. J. Ornamenting metals	289,956	Dec. 11	723	.....	25	1020
Bauer, Jacob. (See Colvin, Orson, assignor.)						
Bauer, Jacob C., Philadelphia, Pa. Paper-lining machine	276,335	Apr. 24	1892	525	23	1573
Bauer, Jacob C., Philadelphia, Pa. Paper box	278,851	June 5	245	70	23	2165
Bauer, Paul. (See Watson, Hall, and Bauer.)						
Bauer, Zachaeus, St. Louis, Mo. Shirt	273,802	Mar. 13	729	197	23	967
Bauermeister, Hermann E. L., Hamburg, Germany. Flour-sifting machine	278,852	June 5	246	71	23	2165
Baugh, Daniel, *et al.* (See Terne, Bruno, assignor.)						
Baugh, Edwin P., *et al.* (See Terne, Bruno, assignor.)						
Baughart, Andrew B., and C. H. Treat, Frankford, Del. Making inlaid frames	274,898	Apr. 3	9	2	23	1228
Baughman, David C., Albion, Ind. Lighting and extinguishing gas-lights	287,218	Oct. 23	1825	500	25	350
Baughman, George T., *et al.* (See Clark, Levi S., assignor.)						
Baujard, Edmund O., Aubervilliers, France, assignor to J. W. Mackay, Virginia City, Nev. Extracting glycerine	278,849	June 5	241	.....	23	2164
Baujard, Edmond O., Aubervilliers, France, assignor to J. W. Mackay, Virginia City, Nev. Extracting glycerine	280,894	July 10	686	193	24	128
Baujard, Edmund, Aubervilliers, France, assignor to J. W. Mackay, Virginia City, Nev. Treating waters containing glycerine obtained by the decomposition of fatty matters	280,893	July 10	685	.....	24	128
Baum, Andrew F., Allentown, Pa. Shirt	283,190	Aug. 14	856	239	24	659
Baum, Chester C., Dover, Del. Spark conductor for locomotives	282,484	Aug. 7	6	2	24	502
Baumann, Frederick, Chicago, Ill. Pipe-coupling	272,191	Feb. 13	750	207	23	582
Baumann, Louis, Offenburg, Germany. Rag-cutting machine	286,373	Oct. 9	748	201	25	146
Baumeister & Co., L. (See Baumeister, Leopold, assignor.)						
Baumeister, Hermann. (See Lüdeke, Waldemar, assignor.)						
Baumeister, Leopold, Bridgeport, Conn. Fire-escape	274,080	Mar. 13	1069	295	23	1025
Baumeister, Leopold, Bridgeport, Conn. Portable bracket	276,336	Apr. 24	1893	525	23	1574
Baumeister, Leopold, assignor to L. Baumeister & Co., Bridgeport, Conn. Gas-regulator	282,150	July 31	2300	632	24	422
Baumgardner, Emet. (See Laughlin and Baumgardner.)						
Baumgarten, Carl, Berlin, Germany. Steam-engine	283,558	Aug. 21	1317	368	24	750
Baumgartner, Frederick, Brooklyn, N. Y. Whip-socket	277,197	May 8	864	230	23	1780
Baumgartner, Rudolph, New Orleans, La. Truck for portable tracks	271,020	Jan. 23	1478	426	23	303
Baumotte, Hermann, Vossnaiken, near Kupferdreh, Prussia, Germany, assignor to himself and R. Nöggerath, St. Johann-on-the-Saar. Hydraulic motor	286,374	Oct. 9	749	201	25	146
Baur, John, Chicago, Ill. Feather-renovator	287,496	Oct. 30	2172	569	25	421
Bausch, Edward, Rochester, N. Y. Microscopic illuminator	277,869	May 22	1661	454	23	1931
Bausch, Henry, Rochester, N. Y. Sash-fastener	277,441	May 15	1153	310	23	1837
Baush, Christian H., Holyoke, Mass. Furnace-grate	277,538	May 15	1268	340	23	1856
Bausmith, William T., assignor of one-half to M. H. Bentley, Ludlow, Ky. Core compound	270,625	Jan. 16	983	.....	23	209
Bavier, John, Newark, N. J. Sash-balance	279,631	June 19	1272	353	23	2354
Bawden, John H., Freehold, N. J. Molding-flask	280,557	July 3	262	71	24	47
Bawsel, Edward E., assignor of one-third to J. A. Beaver, Washington, D. C. Safety device for elevator-shafts	274,257	Mar. 20	1305	359	23	1074
Bawsel, Edward E., assignor to W. Choate, Washington, D. C. Pole-changer for telephone call-circuits	274,552	Mar. 27	1705	473	23	1149

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Baxter, Charles W. (See Baxter, James M., assignor.)						
Baxter, Hartley C., and H. R. Stickney, 2d, Portland, Me. Machine for filling cans	284,998	Sept. 18	1036	291	24	1096
Baxter, James M., Philadelphia, Pa., assignor of one-half to C. W. Baxter, Camden, N. J. Making hair-waves	289,957	Dec. 11	724	204	25	1020
Baxter, Jean. (See Baxter, William, Jr., assignor.)						
Baxter, John L. (See Snell, Luther C., assignor.)						
Baxter, Myron L., Aurora, Ill., assignor, by mesne assignments, to Overland Telephone Company. Transmitting-telephone	277,198	May 8	865	230	23	1780
Baxter, Myron L., Aurora, Ill., assignor, by mesne assignments, to Overland Telephone Company. Receiving-telephone	277,199	May 8	867	230	23	1780
Baxter, Thomas W., *et al.* (See Pattillo, Robert M., assignor.)						
Baxter, William, Jersey City, N. J., assignor to J. A. Greene, Brooklyn, N. Y. Wrench	281,431	July 17	1362	376	24	252
Baxter, William, Jersey City, N. J., assignor to J. A. Greene, Brooklyn, N. Y. Wrench	281,432	July 17	1363	376	24	252
Baxter, William, Jr., Jersey City, N. J. Voltaic-arc light	288,157	Nov. 6	445	125	25	585
Baxter, William, Jr., assignor to J. Baxter, Jersey City, N. J. Dynamo-electric machine	271,972	Feb. 6	468	128	23	522
Bayles, Thomas S., Toronto, Ontario, Canada. Machine for forming staples	287,087	Oct. 23	1655	454	25	319
Bayles, William H., Montclair, N. J. Sash-fastener	285,210	Sept. 18	1295	364	24	1140
Bayles, William H., Montclair, N. J. Sash-fastener	285,211	Sept. 18	1295	365	24	1141
Bayless, Albert J. (See Lancaster, James H., assignor.)						
Bayley, Alfred, Newark, N. J. Combined coal-scuttle and ash-sifter	283,848	Aug. 28	1668	471	24	826
Bayley, Charles H., Boston, Mass. Trimming mechanism for sewing-machines	272,519	Feb. 20	1178	329	23	660
Bayley, Charles H., Boston, Mass. Trimming attachment for sewing-machines	273,936	Mar. 13	898	245	23	995
Bayley, Charles H., Boston, Mass. Sewing-machine	275,117	Apr. 3	311	87	23	1279
Bayley, James S., York, Pa. Car-coupling	278,764	June 5	107	31	23	2142
Bayley, John C., assignor of one-half to A. Davis, Battle Creek, Mich. Sulky-cultivator	281,957	July 24	2040	558	24	374
Bayley, Samuel K. (See Myer and Bayley.)						
Bayley, Samuel K., Boston, Mass. Refrigerator-car	276,952	May 1	545	142, 143	23	1719
Bayley, Samuel K., Boston, Mass. Heat insulation of refrigerator cars and buildings	284,361	Sept. 4	247	69	24	946
Bayley, Samuel K., Boston, Mass. Railway-car	284,362	Sept. 4	248	69	24	946
Bayley, William. (See Whiteley and Bayley.)						
Bayley, William. (See Whiteley, Bayley, and Lee.)						
Baylis, Frank, Amenia, N. Y. Hay-distributer for barns	283,191	Aug. 14	858	240	24	659
Baynes, John, Bronxdale, assignor to J. Matthews, New York, N. Y. Preparing glass, metal, &c., for erosion	282,485	Aug. 7	7	.....	24	502
Bayrer, William J., Southington, Conn. Bit-stock	277,105	May 8	752	197	23	1760
Bazzett, Charles T. (See Sliter and Bazzett.)						
Be Vier, Edwin W., Chandlerville, Ill. Hog-cholera remedy	282,949	Aug. 14	565	.....	24	608
Bea, John H., Jr., assignor to E. R. Cahoone, Newark, N. J. Sewing-machine guide	272,847	Feb. 27	1615	451, 452	23	745
Beach, Alexander H. and R. H., Flint, Mich. Wagon-reach	281,335	July 17	1245	345	24	232
Beach, Alexander H. and R. H., Flint, Mich. Running-gear for wagons	282,486	Aug. 7	8	3	24	502
Beach, Allen J., Flint, Mich. Running-gear for vehicles	279,213	June 12	748	205	23	2261
Beach, Allen J., Flint, Mich. Running-gear	280,895	July 10	687	193	24	128
Beach, Allen J., Flint, Mich. Tongue-support	280,896	July 10	688	193	24	128
Beach, Edgar B., Stony Creek, Conn. Oar-lock	277,662	May 15	1414	382	23	1881
Beach, Henry B., *et al.* (See Rust, Solon R. and A. E., assignors.)						
Beach, Henry B., Meriden, Conn. Plane	287,612	Oct. 30	2341	632	25	454
Beach, Henry B., assignor to Meriden Malleable Iron Company, Meriden, Conn. Joiner's plane	289,332	Nov. 27	1920	533	25	871
Beach, Henry H., Rome, N. Y. Coffee-pot	284,363	Sept. 4	249	69	24	946
Beach, John C., *et al.* (See Rust, Solon R. and A. E., assignors.)						
Beach, John S., Zanesville, assignor, by mesne assignments, of one-half to J. B. Cochran, McConnelsville, Ohio. Tobacco-cutter	271,768	Feb. 6	219	61	23	478
Beach, Millard E., and A. Burch, Cadillac, Mich. Saw setting and jointing device	272,625	Feb. 20	1315	366	23	685
Beach, Ralph H. (See Beach, Alexander H. and R. H.)						
Beach, William L., Webster City, Iowa. Trace-fastener	289,375	Dec. 4	6	2	25	868
Beach, Willis P., Ovid, Mich. Hitching-post	271,769	Feb. 6	220	62	23	478
Beadle, George, assignor to Wales Manufacturing Company, Syracuse, N. Y. Change-gate for public conveyances	273,337	Mar. 6	125	35	23	855
Beal, David, Doylestown, Ohio. Combined shutter-worker and blind-slat operator	277,663	May 15	1415	382	23	1881
Beal, Ezra F., assignor, by mesne assignments, to himself and S. Snow, Everett, Mass. Lasting-machine	277,664	May 15	1416	382, 383	23	1881
Beal, William R., New York, N. Y. Apparatus for scrubbing or washing gas	283,192	Aug. 14	859	240, 241	24	659
Beale, F. W. (See Cowles, Harley D., assignor.)						
Beale, John, East Greenwich, county of Kent, England. Bicycle	280,558	July 3	263	71	24	48
Beale, John B., Rush Centre, Kans. Cutting and preparing broom-corn	274,702	Mar. 27	1885	.....	23	1182
Beale, Joseph G., Leechburg, Pa. Gas-burner	280,170	Oct. 9	476	131	25	99
Beale, Oscar J., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Rotary cutter	277,405	May 8	1100	295	23	1822
Beall, John, Decatur, Ill. Grinding-mill	274,703	Mar. 27	1885	525	23	1182
Beals, Ebenezer, assignor to J. M. Guernsey, Norwich, N. Y. Locomotive-brake	271,189	Jan. 23	1685	486	23	336
Beam, Joshua F., Buffalo, N. Y., and S. Brillinger, Sherkston, Ontario, Canada. Washing-machine	279,522	June 19	1145	317	23	2332
Beaman, Charles F., and W. P. Cragin, assignors to Cragin Bros. & Co., Chicago, Ill. Oil-stove	272,018	Feb. 13	542	146	23	546
Bean, Albert B., New Haven, Conn. Metal-planing machine	272,192	Feb. 13	750	207	23	582
Bean, Edward D., Chelsea, Mass. Policeman's hook	284,165	Sept. 4	6	2	24	906
Bean, John and R., Springfield, Ohio. Hobby-horse	284,940	Sept. 11	957	268, 269	24	1074
Bean, Joseph H., Cincinnati, Ohio. Vapor-stove	282,037	July 31	2137	587	24	396
Bean, Robert T., Mount Sterling, Ky. Hatchway-protector for elevators	287,219	Oct. 23	1826	500	25	350
Bean, Roscoe. (See Bean, John and R.)						
Bean, Rufus E. (See Poor, John O., assignor.)						
Bean, Samuel L., Washington, D. C. Roller grinding-mill	275,568	Apr. 10	917	248	23	1201
Bean, William Z., Boston, Mass. Nailing-machine	282,602	Aug. 7	152	46, 47	24	527
Bean, William Z., Boston, Mass. Nail	282,603	Aug. 7	154	47	24	528
Bear, Josiah, and H. Whitenbarger, Fredonia, Pa. Eaves-trough hanger	290,731	Dec. 25	1737	480	25	1214
Beard, Alfred, Danville, Ill. Pipe-vise	272,193	Feb. 13	753	208	23	582
Beard, Alvah P., Horseheads, N. Y. Sliding door	281,433	July 17	1364	376	24	253
Beard, Cornelius. (See Baldwin, Charles E., assignor.)						
Beard, Cornelius. (See Sontheimer, Engelbert, assignor.)						
Beard, Cornelius. (See Turner, William B., assignor.)						
Beard, Cornelius, and C. E. Baldwin, assignors to I. B. Kleinert, New York, N. Y. Ear-protector	280,005	June 26	1718	481	23	2439

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Beard, Cornelius, and C. E. Baldwin, New York, N. Y. Frame for purses	284,364	Sept. 4	250	69	24	946
Beard, Edward J., and H. V. Hinckley, Topeka, Kans. Revolving switch-stand for railways	276,552	May 1	10	3	23	1028
Beard, Edward J., and H. V. Hinckley, Topeka, Kans. Switch-stand for railways	277,539	May 15	1269	340	23	1856
Beard, Frederick C., Aurora, Ill. Driver for lathes	280,119	June 26	1854	522	23	2463
Beard, Frederick C., Aurora, Ill. Face-plate for lathes, &c	282,038	July 31	2139	587	24	396
Beard, Philo D., Buffalo, N. Y. Overshoe	273,803	Mar. 13	730	198	23	968
Beardslee, George W., Brooklyn, N. Y., assignor to W. F. Jobbins, East Orange, N. J. Electric-arc lamp	270,725	Jan. 16	1115	319, 320	23	233
Beardslee, William F., Boston, Mass. Hat-sewing machine	279,523	June 19	1146	317, 318	23	2332
Beardsley & Co., L. C. (See Draper, Charles T., assignor.)						
Beardsley, Hiram C., and J. M. Hopson, New Haven, Conn. Grate-cleaner	272,194	Feb. 13	754	208	23	582
Bearse, Nelson H., Osterville, Mass. Spirit-level	284,712	Sept. 11	684	193	24	1026
Beath, David. (See Kay, Joshua A., assignor.)						
Beath, Schiess & Co. (See Dredge, Edgar, assignor.)						
Beatley, William H., Humansville, Mo. Adding-machine	272,626	Feb. 20	1316	367	23	685
Beattie, Frank H., Soho, near Birmingham, county of Warwick, England. Braced frame	272,627	Feb. 20	1318	367, 368, 369, 370	23	686
Beattie, George D. (See Kuhns and Beattie.)						
Beattie, William, Portage, Wis. Foot and leg protector	283,193	Aug. 14	861	241	24	660
Beatty, Claudius F., Brooklyn, N. Y. Hat-band	274,704	Mar. 27	1886	525	23	1182
Beatty, Daniel F. (See Davis, Charles H., assignor.)						
Beatty, John P., assignor to himself and S. Beatty, Norwalk, Conn. Hat	279,690	June 19	1342	373	23	2366
Beatty, John P., assignor to himself and S. Beatty, Norwalk, Conn. Machine for pressing hats	286,576	Oct. 16	998	270	25	198
Beatty, Robert P., Norwalk, Conn. Refrigerator	290,387	Dec. 18	1961	354	25	1125
Beatty, Samuel. (See Beatty, John P., assignor.)						
Beaty, James E., Summerville, Ga. Quilting-frame for sewing-machines	276,337	Apr. 24	1894	525	23	1574
Beaty, Marshal, Cincinnati, Ohio. Thimble	279,524	June 19	1152	319	23	2333
Beaty, William W. (See Reeves, Abbott M., assignor.)						
Beauchemin, Joseph E., Sorel, Quebec, Canada. Horse hay-rake	284,166	Sept. 4	7	2, 3	24	906
Beaudreau, Joseph, Ludington, Mich. Rowlock	271,021	Jan. 23	1479	426	23	303
Beaudreau, Mathias I., Fond du Lac, Wis. Governor for steam-engines	274,553	Mar. 27	1706	474	23	1150
Beaudry, Alexander, Boston, Mass. Power-hammer	281,001	July 10	816	227, 228	24	151
Beaudry, Zotique, Lynn, assignor to Universal Heel Burnishing Machine Company, Boston, Mass. Heel-burnisher for boots and shoes	284,167	Sept. 4	8	3	24	906
Beaumont, Henry F., Whitley Beaumont, near Huddersfield, county of York, England. Shooting-seat	272,019	Feb. 13	543	147	23	546
Beaumont, Richard, Kankakee, Ill. Stop-valve	275,798	Apr. 17	1226	335	23	1451
Beaumont, William W., Camberwell, county of Surrey, and J. Welman, Poole, county of Dorset, England. Apparatus for cutting stone	270,925	Jan. 23	1357	391	23	284
Beauregard, Napoleon. (See Wheelock, George J., assignor.)						
Beaver, John A. (See Bawsel, Edward E., assignor.)						
Beazle, Frank N., Pittsburg, Pa. Steel-ingot mold	290,696	Dec. 18	1589	437	25	1181
Bebro, Marcus, Canfield House, Priory Road, Kilburn, county of Middlesex, England. Apparatus for punching and registering tickets	269,911	Jan. 2	103	31	23	22
Beche, Peter, Wilkes-Barré, Pa. Horse-power	278,853	June 5	247	71	23	2165
Bechtel, Albert, E. J. Wunderlich, and D. P. Stetzelberger, Cleveland, Ohio. Lamp-extinguisher and wick-trimmer combined	281,232	July 17	1117	308	24	211
Bechtel, George M., Reading, Pa. Carriage-top standard	278,676	June 5	2	1	23	2125
Bechter, Joseph M. (See Wright and Bechter.)						
Beck, August, New York, N. Y. Quilting-machine	276,657	May 1	145	77	23	1651
Beck, August, New York, N. Y. Quilting-machine	279,632	June 19	1272	353	23	2355
Beck, August, and G. Creter, New York, N. Y. Mechanical movement	289,881	Dec. 11	637	177	25	1004
Beck & Co., A. (See Brenzinger, Adam, assignor.)						
Beck, Daniel, Chicago, Ill. Fire-extinguishing apparatus	278,307	May 29	2227	611	23	2037
Beck, Harrison W., *et al.* (See Beck, Marshall, assignor.)						
Beck, Harry E., *et al.* (See Beck, Marshall, assignor.)						
Beck, John B., Pittsburg, assignor to himself, A. Haller, and A. Munsch, Allegheny city, Pa. Fertilizer	285,555	Sept. 25	1703	.....	24	1220
Beck, Lewis I., *et al.* (See Beck, Marshall, assignor.)						
Beck, Marshall, assignor of two-thirds to E. Hopkins, Jr., G. W. Le Vin, Chicago, L. I. and H. E. Beck, Clear Creek, Ill., and H. W. Beck, Indianola, Kans. Hay raking and loading machine	283,746	Aug. 28	1547	437, 438	24	805
Becker, Francis L., New York, N. Y. Pivot-joint for piano-actions	285,785	Oct. 2	7	3	25	4
Becker, Franck, assignor to R. F. Simmons, E. L. Hixon, and J. L. Sweet, Attleborough Falls, Mass. Ornamental chain	276,338	Apr. 24	1895	526	23	1574
Becker, John, Boston, Mass. Embroidering-machine	281,231	July 17	1112	307	24	210
Becker, John F., Ward, Minn. Hame and collar fastener	290,661	Dec. 25	1638	450	25	1196
Becker, Kiel W. (See Lewis, Francis M., assignor.)						
Beckers, Alexander, Hoboken, N. J. Boat-rowing apparatus	287,088	Oct. 23	1655	454, 455	25	319
Beckert, Andrew, and W. E. Ludlow, Sandusky, Ohio. Dumping-car	288,760	Nov. 20	1928	335, 336	25	735
Beckett, Albert A., assignor of one-half to J. Kelly, Chicago, Ill. Fire-escape	290,311	Dec. 18	1168	327	25	1108
Beckey, Silas, Cascade, Mich. Portable fence	286,522	Oct. 9	926	250	25	178
Beckhardt, Louis, *et al.* (See Knoepflin, John B., assignor.)						
Beckley, Philip G., Newark, N. J. Lamp-wick trimmer	271,022	Jan. 23	1480	426	23	303
Beckman, C. C. (See Huffer, John H., assignor.)						
Beckwith, Charles T., *et al.* (See Tripp, James, assignor.)						
Beckwith, Ellen F., *et al.* (See Tripp, James, assignor.)						
Beckwith, John. (See Clow, Lewis E., assignor.)						
Beckwith, John H. (See Galloway and Beckwith.)						
Beckwith, Leonard F., *et al.*, trustees. (See Marchand, Charles, assignor.)						
Beckwith, Philo D., Dowagiac, Mich. Heating-stove	289,802	Dec. 11	536	149, 150	25	986
Beckwith, Samuel, Mount Pleasant, Iowa. Fence-post	282,039	July 31	2140	587	24	397
Beckwith, Samuel H., assignor to F. J. Callanen, Utica, N. Y. Electro-magnetic locomotive	280,559	July 3	264	72, 73	24	48
Beckwith, Walter C., Norwalk, Ohio. Railway-signal	277,200	May 8	868	230	23	1780
Beckwith, Walter C., Allegheny, Pa. Carbon	290,836	Dec. 25	1866	515	25	1237
Beckwith, Warren, Genova Lake, Wis. Wagon end-gate	286,675	Oct. 16	1127	303	25	220

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Beckwith, William H., Latrobe, Pa. Coke-oven door	288,761	Nov. 20	1230	337	25	735
Becsey, Joseph A., *et al.* (See Rudolph, Alexander, assignor.)						
Bedbury, George W., assignor of one-half to A. E. Borthwick, Portland, Oreg. Car-coupling	269,999	Jan. 2	206	59	23	43
Bedbury, George W., assignor of one-third to E. J. Haight and L. M. Cox, Portland, Oreg. Car-axle	275,324	Apr. 3	563	153	23	1322
Bedbury, George W., assignor of one-half to L. M. Cox and J. E. McLaughlin, Portland, Oreg. Car-axle	284,800	Sept. 11	793	221	24	1044
Beddow, George, assignor of one-half to J. P. Rose, Detroit, Mich. Leather-skiving machine	275,458	Apr. 10	779	208	23	1367
Bedell, George E., Herkimer, N. Y. Folding cot	274,455	Mar. 27	1567	429	23	1127
Bedell, Lucius M., Chetopa, Kans. Barrel-truck	274,258	Mar. 20	1306	360	23	1074
Bedell, Lucius M., Chetopa, Kans. Shot-case	285,454	Sept. 25	1588	446	24	1198
Bedell, William, New York, N. Y. Car-ventilation	280,783	July 10	563	158	24	106
Bedford, Joseph T., New York, N. Y. Waxing paper	273,013	Feb. 27	1812	508	23	779
Bedford, Joseph F., Cincinnati, Ohio. Clasp	286,991	Oct. 23	1533	422	25	296
Bedinger, George M., Jr., Erlanger, Ky. Electric signaling apparatus for railway-trains	275,879	Apr. 17	1325	365	23	1469
Beebe, Charles S., Racine, Wis. Fanning-mill	280,897	July 10	688	194	24	128
Beebe, Charles S., Racine, Wis. Fanning-mill	280,898	July 10	689	194	24	128
Beebe, Charles S., Racine, Wis. Two-wheeled vehicle	281,434	July 17	1365	377	24	253
Beebe, Edgar G., Wiota, Wis. Vehicle-brake	278,765	June 5	108	31	23	2142
Beebe, Gaylord W., Swanton, Vt. Thill-coupling	272,628	Feb. 20	1320	370	23	686
Beebe, George F., Hornellsville, N. Y. Pump	279,214	June 12	748	206	23	2261
Beebe, Hiram F. (See Hubbard, Frederick H., assignor.)						
Beebe, Lyman C., Villisca, assignor of one-half to R. Truman, Afton, Iowa. Gas-generating lamp	290,200	Dec. 18	1025	288	25	1084
Beebe, Lyman C., Villisca, assignor of one-half to R. Truman, Afton, Iowa. Gas-generator	290,627	Dec. 18	1590	437	25	1181
Beebe, Winsor, Buffalo, N. Y. Grain drier and cooler	284,366	Sept. 4	135	38	24	927
Beecher, Ebenezer B., Westville, Conn., and R. T. Elliott, assignors to Diamond Match Company, Wilmington, Del. Machine for making match-boxes	281,958	July 24	2040	558, 559, 560	24	374
Beecher, Henry W. (See Woodruff, Owen, and Beecher.)						
Beecher, Thomas, assignor to W. & E. T. Fitch, New Haven, Conn. Snap-hook	292,257	July 31	2433	669	24	445
Beecher, William F. (See Clark and Beecher.)						
Beecher, William F., and R. S. West, Cleveland, Ohio. Portable coffee-roaster	271,770	Feb 6	221	62	23	479
Beecher, William S., Westville, Conn. Match-box	284,596	Sept. 11	536	151	24	1001
Beechey, Charles G., assignor to W. T. Mann, J. G. and A. Chapman, and H. Shield, Liverpool, England. Gas-motor engine	280,006	June 26	1719	481, 482	23	2439
Beeching, David G., New York, N. Y. Illuminating-tile	272,629	Feb. 20	1321	370	23	686
Beckman, C. C. (See Huffer, John H., assignor.)						
Beeler, W. R. (See Park and Hackett, assignors.)						
Beeman, Joseph S., London, England. Magneto-electric machine	288,915	Nov. 20	1411	388, 389	25	770
Beeman, Joseph S., W. Taylor, and F. King, London, England. Regulator for dynamo-electric machines	288,963	Nov. 20	1468	406	25	781
Beeman, Marcus M., Syracuse, N. Y. Nut-lock	270,372	Jan. 9	657	193	23	138
Beer, John S., Buffalo, N. Y. Fire-proof material	290,837	Dec. 25	1866	515	25	1237
Beer, Peter Detroit, Mich. Match-machine	272,113	Feb. 13	666	181	23	567
Beers, Charles F., Newark, N. J. Spectacles and eyeglasses	271,771	Feb. 6	222	62	23	479
Beers, Philo M., Bridgeport, Conn. Machine for polishing the eyes of needles	278,854	June 5	248	72	23	2165
Beers, Thomas W., and J. W. Craig, Kirkwood, Ill. Rein-holder	279,906	June 26	1597	448	23	2418
Beery, David A., and N. B. Sprague, Springfield, Ohio. Apparatus for making fire-kindlers	284,597	Sept. 11	536	152	24	1001
Beery, Samuel M., assignor to himself and I. M. Smith, Omaha, Nebr. Platform for railway-cars	290,516	Dec. 18	1451	401	25	1157
Beesley, Frederick, Queen Street, Edgware Road, assignor to J. Purdey, Oxford Street, county of Middlesex, England. Breech-loading fire-arm. (Reissue)	10,281	Feb. 6	528	142	23	531
Beesley, Thomas, Muscatine, Iowa. Caloric-engine	270,000	Jan. 2	207	60	23	43
Beggs, Eugene. (See Pennington and Beggs.) (Reissue.)						
Beggs, William. (See McDonald and Beggs.)						
Beha, John, Louisville, Ky. Harness	285,379	Sept. 25	1496	421	24	1182
Behr, Herman. (See Coffin, George W., assignor.)						
Behrens, Hermann L., Holyoke, Mass. Self-oiling calender-box	282,151	July 31	2302	632	24	422
Behrens, William H., assignor of one-half to C. M. Theberath, Newark, N. J. Mechanical movement	287,408	Oct. 30	2063	561	25	400
Behrens, William H., assignor of one-half to C. M. Theberath, Newark, N. J. Machine for hardening and sizing hat-bodies	287,752	Oct. 30	2520	679	25	488
Beidler, Charles, assignor of two-thirds to C. S. Ehrig and J. J. Egge, Allentown, Pa. Washing-machine	279,691	June 19	1343	373	23	2366
Beidler, Henry M., Texarkana, Ark. Electro-magnetic car wheel and brake	284,365	Sept. 4	251	70	24	947
Beidler, Jacob H., Mount Pulaski, Ill. Brick-kiln	278,080	May 22	1904	521	23	1974
Beiermeister, Fredrick, Jr., Troy, N. Y. Collar	278,677	June 5	3	1	23	2125
Beiermeister, Fredrick, Jr., Troy, N. Y. Collar	289,604	Dec. 4	290	81	25	939
Beisner, George, Chicago, Ill. Folding step-ladder	276,339	Apr. 24	1896	526	23	1574
Belcher, Frank S. and J. B., Charlotte, Mich. Fruit-drier	285,957	Oct. 2	228	64	25	43
Belcher, John B. (See Belcher, Frank S. and J. B.)						
Belcher, John B. (See File, John C., assignor.)						
Belcher, Walter A., assignor of one-half to F. Taylor, Lowell, Mass. Telephonic apparatus	283,747	Aug. 28	1549	438	24	806
Belden, Henry S., Canton, Ohio. Vapor-burner	271,772	Feb. 6	223	62	23	479
Belden, Henry S., Canton, Ohio. Vapor-burner	272,195	Feb. 13	755	208	23	582
Belden, Henry S., Canton, Ohio. Street-lamp	286,763	Oct. 16	1237	334	25	239
Belden, Preston L. (See Gilmore, Robert J., assignor.)						
Belding, Arthur, Chicago, Ill. Device for hanging seed-corn	276,755	May 1	296	76	23	1676
Belding, Edgar F. (See Knowlton, Albion, assignor.)						
Belknap, Charles, Bridgeport, and J. W. Bradley, Stratford, assignors of one-half to Belknap Manufacturing Company, Bridgeport, Conn. Valve mechanism	286,676	Oct. 16	1128	303, 304	25	220
Belknap, Frank D., Wooster, Ohio. Copying and printing press	286,677	Oct. 16	1129	304, 305	25	220
Belknap Manufacturing Company. (See Belknap and Bradley, assignors.)						
Belknap Manufacturing Company. (See Bradley, John W., assignor.)						
Belknap, Samuel C., and T. H. Fye, Zanesville, Ohio. Boot or shoe	278,308	May 29	2228	611	23	2037
Bell, Albert, Reisterstown, Md. Book-support	290,169	Dec. 11	978	276	25	1068
Bell, Benjamin F., Yates Centre, Kans. Wire-tyer	279,525	June 19	1153	319	23	2133
Bell, Bushrod W., Dallas, Tex. Wood pavement	281,233	July 17	1118	308	24	211
Bell, Franklin N. (See Bell, George S., assignor.)						
Bell, Frederick, Anderson, Ind. Sash-fastener	287,409	Oct. 30	2064	561	25	400
Bell, George A., and W. W. Norman, Morley, Mo. Extension step-ladder	287,793	Nov. 6	7	2	25	508

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bell, George S., South Norwalk, Conn., assignor to F. N. Bell, Flushing, N. Y. Center-board for vessels	277,406	May 8	1101	295	23	1822
Bell, James D., Fremont, Nebr. Portable refrigerator	286,375	Oct. 9	750	201	25	146
Bell, John A. (See Smith, Oscar L., assignor.)						
Bell, John B., Pittsburg, Pa. Clothes-washer	270,726	Jan. 16	1116	320	23	233
Bell, John H., Mount Ephraim, N. J. Riddle for grain-separators	280,007	June 26	1722	482	23	2439
Bell, John W. (See Luse and Bell.)						
Bell, Levi, Orangeburg, N. Y. Sulky-plow	286,678	Oct. 16	1132	305	25	221
Bell, Patrick F. (See Otto and Bell:)						
Bell, Richard, Liverpool, England, and D. Selkirk, Brooklyn, N. Y. Screw-propeller	285,212	Sept. 18	1296	365	24	1141
Bell, Robert, Paterson, assignor to A. Martin, Passaic, N. J. Shell for use in dye-vats	276,340	Apr. 24	1897	526	23	1575
Bell, Samuel H., assignor of one-half to S. L. Griffin, Mexico, Mo. Two-wheeled vehicle	278,855	June 5	251	72, 73	23	2166
Bell, Thomas, Akron, Ohio. Nut-lock	284,366	Sept. 4	252	70	24	947
Bell, Walter T., New Rochelle, N. Y. Measure for grain-spouts	280,120	June 26	1854	523	23	2463
Bell, William. (See Lipsey, Andrew B., assignor.)						
Bell, William G. (See Addie, John, assignor.)						
Bell, William G., Boston, Mass. Meat-cutter	273,220	Feb. 27	2071	582	23	824
Bell, William G., Boston, Mass. Machine for cutting meat	287,360	Oct. 23	1998	{544 / 545}	{25 / 25}	381
Bellah, Thomas S. (See Spencer, John N., assignor.)						
Bellairs, William, Mitchellville, Iowa. Snap-hook	279,477	June 12	1088	300	23	2315
Bellairs, William, Mitchellville, Iowa. Trace-carrier	288,762	Nov. 20	1232	337	25	736
Bellamy, Charles L., Arlington, N. J. Clamp and vise	286,376	Oct. 9	751	202	25	147
Belle Patent Button Fastener Company. (See Alton, George H., assignor.)						
Belle Patent Button Fastening Company. (See Alton, George H., assignor.)						
Bellinger, Earll B., Kalamazoo, assignor to himself and H. F. Bellinger, Barry, Mich. Cultivator	290,960	Dec. 25	2022	558	25	1263
Bellinger, Harvey F. (See Bellinger, Earll B., assignor.)						
Bellingrath, Leonard, Castleberry, Ala. Manufacturing rosin and spirits of turpentine	284,367	Sept. 4	253	.....	24	947
Bellis, William L., Cleveland, Ohio. Rim-plate for horse-collars	287,497	Oct. 30	2173	589	25	492
Belt, Jared E., Minneapolis, Minn. Bran-packer	279,854	June 19	1528	427	23	2399
Belt, William L., Washington, D. C. Shutter-worker	283,194	Aug. 14	862	241	24	660
Belton, John D., New Orleans, La. Grain-screen	279,215	June 12	749	206	23	2261
Bement, Arthur O., Lansing, Mich. Spring-tooth harrow	272,939	Feb. 27	1729	483	23	764
Bemis, Charles, assignor of one-half to W. H. Williams and A. E. Cartier, Ludington, Mich. Fire-escape	286,523	Oct. 9	927	250	25	179
Bemis, Harrison H., Chicago, Ill. Lathe for turning lasts	276,129	Apr. 17	1622	447	23	1520
Bemis, James H., assignor, by mesne assignments, to himself and F. Harrington, Keene, N. H. Button-boot	278,081	May 22	1905	522	23	1974
Bemis, Judson M., *et al.* (See Palmer, Charles H., assignor.)						
Bemis, Stephen A., *et al.* (See Palmer, Charles H., assignor.)						
Bemis, Sumner A., Springfield, Mass. Car-spring	284,713	Sept. 11	685	193	24	1026
Bemis, Winfield S. (See Dayton, William M., assignor.)						
Bender, George, Hoboken, N. J. Zithern	286,524	Oct. 9	928	250	25	179
Bender, Henry C., Montgomeryville, Pa. Nut-lock	289,494	Dec. 4	155	42	25	913
Bender, Louis L., assignor of one-half to J. C. Dingens, Buffalo, N. Y. Printer's correcting-table	285,556	Sept. 25	1703	480	24	1220
Bendix, Josef, assignor to R. Eisenmann, Berlin, Germany. Process of and apparatus for purifying alcohol	287,089	Oct. 23	1657	455	25	320
Bendler, William H., Baltimore, Md. Accordion	282,834	Aug. 7	429	121	24	576
Bendure, John U., Middlebourne, Ohio. Cider mill and press	274,432	Mar. 20	1526	420	23	1112
Benedict, Arthur L., Ocean Grove, N. J. Window and door screen	290,312	Dec. 18	1169	327	25	1108
Benedict & Burnham Manufacturing Company. (See Blackham, Eli J., assignor.)						
Benedict & Burnham Manufacturing Company. (See Hallas, James G., assignor.)						
Benedict & Burnham Manufacturing Company. (See Thompson, Frank H., assignor.)						
Benedict, Hiram, Detroit, Mich. Folding table	285,101	Sept. 18	1165	326	24	1117
Benedict, Richard W., assignor to J. Wyckoff and R. T. Tuttle, Perry, N. Y. Harvester	282,040	July 31	2141	588	24	397
Benedict, William F., New York, N. Y. Basket	278,856	June 5	252	73	23	2166
Benfield, Thomas, Brooklyn, N. Y. Ornamenting watch-cases and other articles of jewelry	275,569	Apr. 10	918	248	23	1391
Benham, Elijah B., Mystic, Conn., and H. B. Richardson, Amherst, assignors to Amherst Hydraulic Motor Company, Boston, Mass. Hydraulic motor	276,520	Apr. 24	2117	{588 / 589}	{23 / 23}	1613
Benham, Ethan S., Attica, N. Y. Gang-plow frame	289,376	Dec. 4	6	2	25	888
Benham, William P., Hartford, Conn., assignor to Pope Manufacturing Company, Boston, Mass. Velocipede	277,870	May 22	1663	454	23	1931
Benjamin, Walter R., Holder, Ill. Device for setting up dead game for decoy purposes	283,195	Aug. 14	863	241	24	660
Benjamin, William C. (See Wren, William C., assignor.)						
Benner, Lorenzo D., assignor to G. C. Alden and A. C. Clay, Galesburg, Ill. Corn-planter check-rower	274,259	Mar. 20	1307	360	23	1074
Benner, Lorenzo D., assignor to A. C. Clay and G. C. Alden, Galesburg, Ill. Corn-planter check-rower	279,692	June 19	1344	374	23	2366
Bennet, Karl W., Manchester, assignor of one-half to F. Nevitt and S. H. Spooner, Sr., Lawrenceburg, Ind. Baling-press	281,959	July 24	2045	560	24	375
Bennett, Anthony A., West Stratford, Conn. Thill-coupling	270,571	Jan. 16	920	265	23	197
Bennett, Benjamin, Hyde Park, Pa. Car-brake	271,773	Feb. 6	225	63	23	479
Bennett, Benjamin F., Lockport, N. Y. Automatic self-setting wrench	287,998	Nov. 6	268	76	25	554
Bennett, Charles A., assignor of one-half to Morris County Machine and Iron Company, Dover, N. J. Device for operating air-compressor valves	283,955	Aug. 28	1799	509	24	851
Bennett, Charles H. (See Bennett, John W., assignor.)						
Bennett, Charles H., Cheltenham township, Montgomery county, Pa. Bottle-stopper	280,784	July 10	565	158	24	106
Bennett, Dwight W., assignor to Craighead & Elwell Manufacturing Company, Bridgeport, Conn. Lamp-fixture	280,441	July 3	131	35	24	24
Bennett, Edward L. (See Stiles, Frederic, assignor.)						
Bennett, Edwin, Baltimore, Md. Earthenware tea-pot	273,221	Feb. 27	2072	582	23	825
Bennett, Edwin W. (See Ferre, William T., assignor.)						
Bennett, Eli J., assignor of one-half to D. A. Gilbert, Bainbridge, N. Y. Baling-press	275,118	Apr. 3	313	87	23	1280
Bennett, George S. (See Dickey, William H., assignor.)						
Bennett, James W. (See Fellows, Charles F., assignor.)						
Bennett, James W. (See Keefe, John C., assignor.)						
Bennett, James W., *et al.* (See Ladd, Austin S., assignor.)						
Bennett, James W., *et al.* (See Thompson, Edward W., assignor.)						
Bennett, James W. (See Thompson and Moore, assignors.)						
Bennett, John F., Pittsburg, Pa. Apparatus for separating nitrogen from atmospheric air	281,002	July 10	818	228	24	151
Bennett, John F., Pittsburg, Pa. Apparatus for compressing liquid steel	282,041	July 31	2143	588	24	397
Bennett, John F., Pittsburg, Pa. Apparatus for the manufacture of bituminous-coal coke	282,604	Aug. 7	155	47, 48	24	528

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bennett, John F., Pittsburg, Pa. Purifying iron with carbonic-acid gas	285,786	Oct. 2	8	.....	25	4
Bennett, John H., assignor of two-thirds to A. T. Matthews and E. Converse, Worcester, Mass. Knob for stove or other doors	274,433	Mar. 20	1527	420	23	1113
Bennett, John M., Green Island, N. Y., assignor to H. C. Bailey, Covington, Ky. Rabbet-plane	284,941	Sept. 11	959	269	24	1075
Bennett, John W., assignor to C. H. Bennett, Halifax, Nova Scotia, Canada. Stencil-holder	277,201	May 8	869	231	23	1781
Bennett, Theodore G., *et al.* (See Desmond, John, assignor.)						
Bennett, Walter, Providence, R. I. Skin-puncturing device or recussitator	273,702	Mar. 13	595	160	23	944
Bennett, Walter A., *et al.* (See Desmond, John, assignor.)						
Bennett, Walter G. (See Stonemetz and Bennett.)						
Bennett, William H. (See Graves, John B., assignor.)						
Bennette, Jacob B., assignor of one-half to S. F. Seager, Lansing, Mich., and H. S. Wade, Boston, Mass. Barrel	284,267	Sept. 4	136	38	24	928
Bennit, William, assignor of one-half to H. N. Knickerbocker, Troy, N. Y. Corkscrew	277,442	May 15	1154	310	23	1837
Bennor, Joseph, Philadelphia, Pa. Trap	272,020	Feb. 13	543	147	23	547
Bennor, Joseph, Philadelphia, Pa. Water-closet and trap	289,495	Dec. 4	156	43	25	913
Bennor, Joseph, Philadelphia, Pa. Wash-basin	289,496	Dec. 4	158	43	25	914
Bennor, Joseph, assignor of two-thirds to W. H. Staake and W. E. Knowles, Philadelphia, Pa. Block or brick pressing machine	289,882	Dec. 11	638	177, 178	25	1005
Benoist, Eugene H., St. Louis, Mo. Window-refrigerator	275,799	Apr. 17	1228	336	23	1451
Benoit, Fredrick, Chicago, Ill., assignor to himself and G. Stone, Beloit, Wis. Stuffing-machine	286,171	Oct. 9	478	132, 133	25	99
Benoit, John P., Detroit, Mich. Cut-off-valve gear	288,297	Nov. 13	629	172	25	625
Benson, August, Worcester, Mass. Screw-driver	277,202	May 8	870	231	23	1781
Benson, Benjamin S., Baltimore, Md. Traction-engine and stubble harvester and consumer	281,604	July 17	1579	432	24	288
Benson, Benjamin S., Baltimore, Md. Combined differential gear and friction-clutch	285,213	Sept. 18	1297	365	24	1141
Benson, Charles, *et al.* (See Swift, Horace E., assignor.)						
Benson, Ezra D. and J. D., Cranberry, W. Va. Animal-shears	287,794	Nov. 6	7	3	25	508
Benson, George T., New York, N. Y., assignor to J. S. Kelso, Jr., Stamford, Conn. Switch for electric lamps	288,971	Nov. 27	1482	411	25	790
Benson, James D. (See Benson, Ezra D. and J. D.)						
Benson, James D., and R. B. Fogle, Cranberry, W. Va. Door	280,785	July 10	566	158	24	107
Benson, Joseph, Boston, Mass. Liquid-filter	277,203	May 8	871	231	23	1781
Benson, Oliver, Brooklyn, N. Y. Snap-hook	286,253	Oct. 9	582	160	25	117
Benson, Richard. (See Coutant and Benson.)						
Benson, Samuel, Evanston, Wyoming Ter. Journal-box	276,756	May 1	297	76	23	1676
Benson, William H., Staunton, Va. Culinary heater	271,774	Feb. 6	226	63	23	479
Bent, William H. (See Haynes, Henry M., assignor.)						
Bentley, Edward M. (See Knight and Bentley.)						
Bentley, Edward M., Washington, D. C. Electric way	276,953	May 1	551	143	23	1790
Bentley, Edward M., Washington, D. C. Electric way	276,954	May 1	552	143	23	1790
Bentley, Edward M., and W. H. Knight, Washington, D. C. Electric way	276,757	May 1	298	76	23	1676
Bentley, Henry. (See Plush, Samuel M., assignor.)						
Bentley, Matthew H. (See Bausmith, William T., assignor.)						
Benton, James R., Oswego, N. Y. Lawn-rake	281,003	July 10	820	228	24	152
Benton, Linn B., Milwaukee, Wis. Printing-type	290,201	Dec. 18	1026	289	25	1084
Benton, Thomas P., La Crosse, Wis. Machinery for separating the ores of the precious metals	273,703	Mar. 13	595	160	23	944
Bentzen, Charles A., Chicago, Ill. Mechanical movement	271,594	Feb. 6	12	3	23	442
Berchtold, Otto C., and E. I. Lauffer; said Lauffer assignor, by mesne assignments, to H. J. Lehman, Cleveland, Ohio. Safety attachment for elevators	290,202	Dec. 18	1028	289	25	1084
Berdohl, Peter J., Dell Rapids, Dak. Ter. Wagon-spring	286,377	Oct. 9	753	202	25	147
Berens, William E., assignor of one-half to C. Mayer, Buffalo, N. Y. Cock-grinding machine	286,525	Oct. 9	929	251	25	179
Beres, Jacob, New York, N. Y. Machine for treating tightly-rolled cigars	274,554	Mar. 27	1707	474	23	1150
Berg, August J., Chicago, Ills. Automatic car-brake	288,298	Nov. 13	629	172, 173	25	625
Berg, Ole. (See Harsha, Mortimer S., assignor.)						
Bergen, Samuel R., Cantril, Iowa. Spring-brace for vehicles	276,213	Apr. 24	1725	477	23	1546
Bergen, William L., Batavia, Ill. Machine for threading bolts	284,168	Sept. 4	10	3	24	906
Berger, Emil. (See Friebel, Richard, assignor.)						
Berger, Lewis W., E. A. Peters, and O. P. Chaney, Groveport, Ohio. Straw-stacker	271,404	Jan. 30	1959	566	23	394
Bergh, Bror F., assignor to E. E. Garvin & Co., New York, N. Y. Gear-wheel	272,940	Feb. 27	1730	483	23	764
Bergman, Ignaz, Fort Madison, Iowa. Device for holding and guiding the fingers in writing	282,948	Aug. 14	564	160	24	608
Bergmann & Co. (See Bergmann, Sigmund, assignor.)						
Bergmann & Co. (See Vail, Jonathan H., assignor.)						
Bergmann, Julius, Hattingen, Germany. Steam-boiler	273,338	Mar. 6	127	36	23	855
Bergmann, Sigmund. (See Greenfield, Edwin T., assignor.)						
Bergmann, Sigmund, assignor of one-half to E. H. Johnson, New York, N. Y. Flexible electric conductor	275,748	Apr. 10	1146	314	23	1430
Bergmann, Sigmund, assignor of one-half to E. H. Johnson, New York, N. Y. Connection for electric-light fixtures	275,749	Apr. 10	1146	314	23	1430
Bergmann, Sigmund, assignor to Bergmann & Co., New York, N. Y. Galvanic battery	288,916	Nov. 20	1412	389	25	770
Bergmann, Theodor, Gaggenau, Baden, Germany. Night-lamp	281,825	July 24	1881	514	24	347
Bergqvest, Nels M., Chicago, Ill. Journal-box lubricator	278,309	May 29	2230	612	23	2037
Bergqvist, John, assignor of one-half to C. Funke, McKeesport, Pa. Puddling-furnace	275,119	Apr. 3	314	87	23	1280
Bergstresser, Edwin L., Hublersburg, Pa. Photographic-plate holder	281,660	July 24	1659	452	24	307
Bergstrom, Gustaf, *et al.* (See Healy, Michael L., assignor.)						
Bering, James E., assignor to Chambers, Bering & Quinlan, Decatur, Ill. Corn-planter	272,404	Feb. 20	1035	290	23	636
Bering, James E., assignor, by mesne assignments, to Chambers, Bering, Quinlan Company, Decatur, Ill. Corn-planter. (Reissue)	10,320	May 1	595	156	23	1728
Berkshire, John H., Muscatine, Iowa. Reciprocating saw-mill	272,630	Feb. 20	1322	371	23	686
Berlien, Joachim E., Altona, Prussia, Germany. Drawing corks from bottles	278,388	May 29	2336	638	23	2057
Berlien, Joachim E., Altona, Germany. Attaching corkscrews to bottles	279,216	June 12	750	207	23	2261
Berlier, Jean B., assignor to Compagnie Générale de Salubrité, Paris, France. Water-closet, urinal, and cesspool	272,405	Feb. 20	1036	290	23	636
Berlin, Henry, assignor to himself and F. Austin, Pittsburg, Pa. Railway switch and frog	289,377	Dec. 4	7	3	25	888
Berliner, Emile, Boston, Mass. Electric-battery fluid	270,884	Jan. 23	1309	378	23	275
Berliner, Emile, Boston, Mass. Carpet	284,268	Sept. 4	137	39	24	928
Berliner, Emile, Boston, Mass. Telephone-transmitter	285,102	Sept. 18	1166	326	24	1118
Bernhard, Gottlieb. (See Fink and Branson, assignors.)						
Bernhardt, Louis, Bergen, N. J., assignor to J. H. Foote, New York, N. Y. Accordion	286,679	Oct. 16	1134	305	25	221
Bernhart, Henry S., and I. R. Ritter, Reading, Pa. Dumping-wagon	284,368	Sept. 4	254	70	24	947

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bernet, Frank. (See Bernet, Ludwig and F.)						
Bernet, Ludwig and F., Bingen, Germany. Vehicle-wheel	275,120	Apr. 3	317	08	23	1280
Bernhamer, Edward R., Indianapolis, Ind. Harrow	273,246	Mar. 6	4	1	23	835
Bernheim, Charles H., Lexington, N. C. Bee-hive	280,560	July 3	268	73	24	48
Berninghaus, Edmund O., assignor of one-half to J. C. Schoenthaler, St. Louis, Mo. Bottle wrapper and cushion	285,872	Oct. 2	114	34	25	22
Berninghaus, Eugene, Cincinnati, Ohio. Barber's chair	270,572	Jan. 16	920	265	23	197
Bernstein, Alex, Boston, Mass. Incandescent electric lamp	271,302	Jan. 30	1821	528	23	369
Bernstein, Alex, assignor to Bernstein Electric Light Manufacturing Company, Boston, Mass. Incandescent electric lamp	273,704	Mar. 13	597	161	23	944
Bernstein, Alexander, Boston, Mass. Incandescent electric lamp	280,340	July 3	3	1	24	3
Bernstein, Alexander, Boston, Mass. Safety device for electric wires	284,714	Sept. 11	686	193	24	1026
Bernstein, Alexander, Boston, Mass. Electric switch or circuit controller	284,715	Sept. 11	687	194	24	1026
Bernstein, Alexander, Boston, Mass. Dynamo-electric machine	284,999	Sept. 18	1039	291 292	24	1096
Bernstein, Alexander, Boston, Mass. Apparatus for counterbalancing disturbances in telephones	286,577	Oct. 16	999	270	25	198
Bernstein, Alexander, assignor to Bernstein Electric Light Manufacturing Company, Boston, Mass. Carbon for incandescent electric lamps	280,341	July 3	4	1, 2	24	3
Bernstein, Alexander, assignor to Bernstein Electric Light Manufacturing Company, Boston, Mass. Automatic cut-out for electric lights	283,748	Aug. 28	1551	438	24	806
Bernstein Electric Light Manufacturing Company. (See Bernstein, Alexander, assignor.)						
Bernthsen, August, Heidelberg, Baden, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of materials suitable for dye-stuffs	282,835	Aug. 7	430	.....	24	576
Bernthsen, August, Heidelberg, Baden, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of coloring-matters	282,836	Aug. 7	430	.....	24	576
Bernthsen, August, Heidelberg, Baden, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Sulphureted derivative of diphenylamine as a basis for the production of coloring-matters	286,526	Oct. 9	931	.....	25	179
Bernthsen, August, Heidelberg, Baden, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Obtaining coloring-matter or dye-stuff from thiodiphenylamine	286,527	Oct. 9	932	.....	25	180
Berolzheimer, Henry. (See Dittenhoefer, Myer, assignor.)						
Berolzheimer, Henry. (See Hoffman, Joseph, assignor.)						
Berret, James G. (See Clason, William P., assignor.)						
Berrigan, John J., Avon, N. Y. Lawn-mower	273,705	Mar. 13	598	161	23	944
Berry, Boswell, Gosforth, Newcastle-on-Tyne, England. Accordion	274,705	Mar. 27	1887	526	23	1183
Berry, David, Gualala, Cal. Sulky	280,561	July 3	269	74	24	48
Berry, Frederic E. (See Putnan and Berry.)						
Berry, Henry, assignor to Derby Silver Company, Huntington, Conn. Butter-dish	284,531	Sept. 4	455	129	24	981
Berry, Henry, assignor to Derby Silver Company, Huntington, Conn. Butter-dish	284,532	Sept. 4	455	129	24	981
Berry, James H., Greenville, S. C., assignor to himself and W. M. Berry, Mount Airy, Ga. Railway signal-lantern	270,727	Jan. 16	1117	320	23	233
Berry, John, assignor to National Needle Company, Springfield, Mass. Machine for grooving needles	275,750	Apr. 10	1147	314 315	23	1430
Berry, John, assignor to National Needle Company, Springfield, Mass. Clamp for holding and rotating needles while grinding them	279,075	June 5	565	155 156	23	2220
Berry, John, assignor to National Needle Company, Springfield, Mass. Machine for filing the teeth of rotary cutters	281,960	July 24	2046	560 561	24	375
Berry, John, assignor to National Needle Company, Springfield, Mass. Machine for feeding needle-blanks	281,961	July 24	2050	561 562	24	375
Berry, John B. N., Baltimore, Md. Car-spring	279,907	June 26	1598	448	23	2418
Berry, John L., and S. Gladney, Antelope, Cal. Faucet	269,912	Jan. 2	105	31	23	22
Berry, Lucien H. (See Orton and Berry.)						
Berry, Nathan B. (See Cardwell and Berry.)						
Berry, Samuel T., Cleveland, Ohio. Stencil-plate	286,172	Oct. 9	481	133	25	100
Berry, Walter K., Swede Point, Iowa. Car-coupling	286,578	Oct. 16	1002	271	25	198
Berry, Wilbur F., Chicago, Ill. Carpenter's gage	273,440	Mar. 6	257	69	23	877
Berry, Wilbur F., Chicago, Ill. Door-hanger	279,526	June 19	1154	319	23	2333
Berry, Wilbur F., Chicago, Ill. Door-hanger	280,342	July 3	5	2	24	3
Berry, William M. (See Berry, James H., assignor.)						
Berst, Conrad, Princeton, Mo. Churn-dasher	271,301	Jan. 30	1821	528	23	369
Berteling, Louis A., San Francisco, Cal. Optometer	275,348	Apr. 10	632	169	23	1342
Bertling, Carl, Detroit, Mich. Coffee-roaster	270,373	Jan. 9	658	193	23	138
Berton, Jean, New York, N. Y. Saw filing and setting machine	285,557	Sept. 25	1704	480 481	24	1221
Bertsch, William. (See Schneider, Henry H., assignor.)						
Bertsche, Leopold, and F. Lofink, Pittsburg, Pa.; said Bertsche assignor to said Lofink. Saw-guard	272,114	Feb. 13	667	182	23	567
Berwick, Henry, South Bethlehem, Pa. Sewing-machine needle	278,857	June 5	253	73	23	2166
Besley, John, Columbia Cross Roads, Pa. Apparatus for skimming milk	285,958	Oct. 2	229	64	25	44
Besosa, Manuel, New York, N. Y. Life-boat	289,208	Nov. 27	1771	491	25	841
Besse, Irvin. (See Moody, Henry T., assignor.)						
Bessemer Steel Company. (See Reese, Jacob, assignor.)						
Bessey, William B., Elmira, N. Y. Car-coupling	285,787	Oct. 2	9	3	25	4
Best Car Coupler Company. (See Best, Jacob N., assignor.)						
Best, Clearmont V., Canton, Ohio. Vapor-burner	283,956	Aug. 28	1800	510	24	851
Best, Daniel, Albany, Oreg. Grain-separator	270,001	Jan. 2	209	60	23	43
Best, Isaac, Lawrence, Mass. Combing-machine	287,498	Oct. 30	2173	590	25	422
Best, Jacob N., assignor to Best Car Coupler Company, Denver, Colo. Car-coupling	279,121	June 12	650	177 178	23	2244
Best, Louis P., Davenport, Iowa. Manufacture of starch	278,490	May 29	2459	670 671	23	2078
Best, Martin L., *et al.* (See Mack, Alfred L., assignor.)						
Betancourt, Gaspar A., Havana, Cuba. Rotary plow	272,631	Feb. 20	1323	371	23	687
Bethea, Cade W., Little Rock, S. C. Wire fence	289,803	Dec. 11	537	150	25	987
Bettermann, Reinhold, Cambria, Pa. Portable sash-securer	283,460	Aug 21	1202	338	24	729
Bettis, Josiah. (See Small, George A., assignor.)						
Bettis, Josiah, New Albany, Ind. Car-brake	270,002	Jan. 2	210	61	23	43
Betts, Charles S., and H. E. Wilson, Salt Lake City, Utah Ter. Gold-washer	279,122	June 12	652	178	23	2245
Betts, Edgar K., Lansingburg, assignor to W. S. and G. Earl, Troy, and W. and R. Wilson, New York, N. Y. Manufacture of collars and cuffs	280,899	July 10	690	194	24	128
Betts, George F., *et al.* (See Darling, James D., assignor.)						
Betts, Isaac F., assignor of one-half to S. F. Betts, Wilmington, Del. Fruit-stoner	281,234	July 17	1119	308 309	24	211

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Betts, J. Hecker, New York, assignor of one-half to R. W. Lindsly, Brooklyn, N. Y. Mustache-protector	276,214	Apr. 24	1725	478	23	1546
Betts, Lewis F., New York, N. Y. Vehicle-spring	277,204	May 8	872	231	23	1781
Betts, Lewis F., New York, N. Y. Sheet-metal pipe. (Reissue)	10,339	June 12	1133	314	23	2323
Betts, Rodney L., Brunswick, N. Y. Grapple	276,658	May 1	147	38	23	1651
Betts, Samuel F. (See Betts, Isaac F., assignor.)						
Bettschen, Joseph. (See Seebach and Bettschen.)						
Betzer, Byron (See Thomas and Betzer.)						
Beucus, Cephus, assignor of two-thirds to W. and A. Donovan, Waupun, Wis. Spittoon	279,633	June 19	1274	354	23	2355
Beuschoten, Howard H. (See Shepherd and Beuschoten.)						
Beuthner, Edward W. (See Sweanor, George, assignor.)						
Beuttel, Charles, and P. P. Braüch, assignors of one-third to H. Newburgh, Cincinnati, Ohio. Button-hole sewing-machine	271,405	Jan. 30	1960	566	23	394
Bevans, Alexander L., Flushing, N. Y. Motor for sewing-machines, &c	289,958	Dec. 11	725	205	25	1020
Bevard, Joseph, Wooster, Ohio. Gig-saddle	274,260	Mar. 20	1307	360	23	1075
Beverly, George, Providence, R. I. Blind-stop	273,937	Mar. 13	900	246	23	995
Bevin Brothers Manufacturing Company. (See Nichols, William H., assignor.)						
Bevington, James H., Cleveland, Ohio. Railway-torpedo	273,441	Mar. 6	258	70	23	877
Bevis, Issacher L., assignor of one-half to L. J. Crecelius, St. Louis, Mo. Weighing-scoop	271,210	Jan. 30	1711	496	23	350
Bewley, Levi N., and R. L. Mack, Wellsborough, Pa.; said Bewley assignor to said Mack. Wagon-seat iron	276,553	May 1	11	3	23	1622
Bewley, Thomas J. (See Ustick, Stephen, assignor.)						
Beyerhaus, Hermann, *et al.* (See Brandl, Gotthard, assignor.)						
Bevrich, Richard W., *et al.* (See Eldridge, Stuart, assignor.)						
Bibb, William C., Sr., Atlanta, Ga. Seed-planter	285,558	Sept. 25	1706	481	24	1221
Bibbens, Henry E. (See Jones, Hezekiah D., assignor.)						
Bickel, Jacob N., Terre Haute, Ind. Horse-collar	276,521	Apr. 24	2119	589	23	1613
Bickelhoupt, Adam and G., New York, N. Y. Skylight	273,247	Mar. 6	5	2	23	845
Bickelhoupt, Adam and G., New York, N. Y. Skylight	273,248	Mar. 6	7	2, 3	23	836
Bickelhoupt, George. (See Bickelhoupt, Adam and G.)						
Bickford, H. (See Piper, J. Frederic, assignor.)						
Bickford, Homer. (See Cunningham and Bickford.)						
Bickford & Huffman. (See Cunningham and Bickford, assignors.)						
Bickford, William A., Brantford, Ontario, Canada. Force-pump	269,913	Jan. 2	106	31	23	22
Bickle, Henry J., and J. E. Bridges, Dungannon, Ontario, Canada. Harness-saddle	279,123	June 12	653	178	23	2245
Bickley, John H., Dover, N. J. Rolling-mill	289,605	Dec. 4	291	82	25	939
Bickley, Samuel W., Mexico, Mo. Self opening and closing hatch-door of elevator-shafts	288,612	Nov. 20	1036	285	25	703
Bickmore, Albion P., assignor of one-half to E. B. Pendleton, Hyde Park, Mass. Self-leveling berth	276,341	Apr. 24	1898	526	23	1575
Bicknell, J. Edward, Cleveland, Ohio. Apparatus for the manufacture of gas	284,801	Sept. 11	794	222	24	1045
Bicknell, William A. P., Riverdale, N. Y. Air-compressor	273,014	Feb. 27	1813	508	23	779
Bidelman, Robert M. (See Bury and Bidelman.)						
Bidwell, Charles H., Albion, N. Y. Elevator	285,788	Oct. 2	10	3	25	4
Bidwell, John C., Pittsburg, Pa. Method of and furnace for burning green bagasse	285,103	Sept. 18	1167	327	24	1118
Biedinger, Charles G., Cincinnati, Ohio. Bottle-wrapper	275,013	Apr. 3	170	46	23	1275
Biele, Charles F., New York, N. Y. Molding	289,606	Dec. 4	293	82	25	939
Bienhoff, Henry, St. Paul, Minn. Corner-plate for wagon-boxes	281,435	July 17	1366	377	24	253
Bier, Danthus P., and H. E. Rolph, assignors of one-third to H. M. Burchard, Marshall, Minn. Snow-excavator	286,895	Oct. 16	1405	386	25	268
Bierbach, Albert G. (See Bierbach, Charles F., assignor.)						
Bierbach, Albert G., Milwaukee, Wis. Feather-renovator	289,378	Dec. 4	8	3	25	888
Bierbach, Charles F., assignor to A. G. Bierbach, Milwaukee, Wis. Fire-escape	278,310	May 29	2231	612	23	2038
Bierbach, Charles F., assignor to A. G. Bierbach, Milwaukee, Wis. Fire-escape	287,410	Oct. 30	2065	561	25	400
Bierce, Frank, Chicago, Ill. Grain-conveyer	286,764	Oct. 16	1239	334 335	25	240
Bierds, John T., Brooklyn, N. Y. Machine for boring and grooving sash-stiles	289,497	Dec. 4	160	43	25	914
Biester, Charles H. R., *et al.* (See Freeman, Thomas R., assignor.)						
Bigelow, Charles D., Brooklyn, N. Y. Apparatus for sizing and amalgamating precious metals	275,325	Apr. 3	563	154	23	1322
Bigelow, George C., Worcester, Mass. Barbed-wire fence	278,389	May 29	2337	639	23	2057
Bigelow, Leander L., Cornville, Me. Pump-piston	279,318	June 12	876	243	23	2282
Bigelow, Poultney. (See Dé Silvéra, Herbert A., assignor.)						
Bigelow, William H., Worthington, Minn. Dam for irrigating-ditches	289,959	Dec. 11	726	205	25	1021
Bigford, Sylvester C., Toronto, Ontario, Canada. Manufacture of articles of wood	285,455	Sept. 25	1589	446	24	1198
Bigger, Neil H. (See Smith and Bigger.)						
Biggs, William, Chicago, Ill. Cutting-die	272,115	Feb. 13	668	182	23	567
Bignell, Edward, Lincoln, Nebr. Locomotive ash-pan	286,579	Oct. 16	1003	271	25	199
Bigney, Robert, Copleston, Ontario, Canada. Car-coupling	275,880	Apr. 17	1326	365	23	1469
Bigney, Robert, Copleston, Ontario, Canada. Car-coupling	286,992	Oct. 23	1534	423	25	296
Bilan, Louis. (See Kroulik and Bilan.)						
Bilan, Louis, assignor of one-fourth to F. J. Horak, Iowa City, Iowa. Corn-planter	270,728	Jan. 16	1120	321	23	234
Bilgram, Hugo, Philadelphia, Pa. Metal-planer	289,607	Dec. 4	293	82	25	939
Bill, Charles H., assignor to Z. Parmenter, Waltham, Mass. Device for making crayon-molds	273,442	Mar. 6	259	70	23	877
Bill, Edward L. (See Ewing and Bill.)						
Billings, Albert, Bergen Point, N. J. Hose-reel	289,960	Dec. 11	727	205	25	1021
Billings, Charles H. (See Jones and Billings.)						
Billings, Clark E., Middlesex, Vt. Reversible latch	286,580	Oct. 16	1004	271	25	199
Billings, Eugene F., *et al.* (See Cline, John B., assignor.)						
Billings, George H., *et al.* (See McCreary and Smith, assignors.)						
Billings, George H., *et al.* (See Smith and McCreary, assignors.)						
Billings, George W., Cleveland, Ohio. Apparatus for manufacturing gas	272,848	Feb. 27	1617	452	23	746
Billings, George W., assignor to D. A. Daugler, Cleveland, Ohio. Vapor-burning soldering-furnace	287,901	Nov. 6	141	41	25	532
Billings, Henry S., Hornellsville, N. Y. Berth-guard for sleeping-cars	272,520	Feb. 20	1179	329	23	661
Billings, Jessee. (See Walters, Joseph, assignor.)						
Billings, John D., assignor of one-half to C. White, New York, N. Y. Horseshoe	283,849	Aug. 28	1669	471	24	826
Billings, John D., assignor of one-half to C. White, New York, N. Y. Horseshoe	283,850	Aug. 28	1669	471	24	826
Billings, Joseph D., Salem, Mass. Hand-car	270,375	Jan. 9	659	193 194	23	138
Billings, Leander S., South Paris, Me. Former	275,349	Apr. 10	633	169	23	1343
Billingsley, Samuel W., Woodberry, Md. Door-latch	276,342	Apr. 24	1899	527	23	1575
Billington, R. C., *et al.* (See Dunn, William J., assignor.)						
Billington, Thomas E., Des Moines, Iowa. Railway-rail joint and lock	284,169	Sept. 4	13	4	24	906

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Billoud, Antoine M. (See Lamberet and Billoud.)						
Bills, Seth H., Mount Morris, N. Y. Fire-escape	278,858	June 5	254	73, 74	23	2166
Billups, James, Milton, W. Va. Car-coupling	270,374	Jan. 9	658	193	23	138
Bilz, John A., Pleasanton, Cal. Two-wheeled vehicle	273,804	Mar. 13	730	198	23	908
Bingaman, Mollie E., New York, N. Y. Producing transferable embroidery patterns	277,665	May 15	1418	.....	23	1881
Bingaman, Samuel H., Laurelton, assignor of three-fourths to A. H. Dill, Lewisburg, Pa. Fire-escape	281,235	July 17	1121	309	24	211
Bingham, Albert D., Nashua, N. H. Watch-movement box	280,121	June 26	1855	323	23	2463
Bingham, Judson D. (See Rodman and Bingham.)						
Bingham, Robert O., Sidney, Ohio. Horse hay-rake	287,613	Oct. 30	2342	632	25	454
Binkley, Leonidas H., and T. H. Wright, Ironton, Ohio. Blotter	289,608	Dec. 4	294	82, 83	25	939
Binney, Lydia R. (See Jenks, Lemuel P., assignor.)						
Binnie, Alexander, Maori Hill, near Dunedin, assignor to E. W. and J. W. U'ren, Dunedin, New Zealand. Apparatus for the manufacture of gas	282,695	Aug. 7	264	76	24	545
Binns, Robert, South Windman, Conn. Buffing-wheel	274,456	Mar. 27	1568	429	23	1127
Binsse, Henry, New York, N. Y. Screw-jack	283,851	Aug. 28	1670	471	24	826
Bioren, Frederick F. and J. C., Newark, N. J. Street-sweeper	280,008	June 26	1723	483	23	2439
Bioren, James C. (See Bioren, Frederick F. and J. C.)						
Bippus, Ferdinand G., assignor to G. Delker and Delker Phaeton Company, Henderson, Ky. Side-bar vehicle	281,962	July 24	2051	502	24	376
Birch, John. (See Ritty and Birch.)						
Birch, John, assignor of one-half to J. R. Johnston & Son, Dayton, Ohio. Coupling for shafts, &c.	281,436	July 17	1367	377	24	253
Birch, John E., Winnipeg, Manitoba, Canada. Traction-engine	288,763	Nov. 20	1232	337	25	736
Birch, John P. (See Green and Birch.)						
Birch, John P., Philadelphia, Pa. Mechanical movement	273,015	Feb. 27	1815	508	23	779
Birch, John S., New York, N. Y. Spectacle-cleaner	270,885	Jan. 23	1309	378	23	275
Birch, John S., New York, N. Y. Pencil or crayon holder	276,679	May 1	148	39	23	1651
Birch, John S., New York, N. Y. Extension gun-wiper	276,660	May 1	149	38	23	1651
Birch, John S., New York, N. Y. Construction of vessels	277,443	May 15	1155	310	23	1837
Birch, John S., New York, assignor of one-third to C. C. Cummings, Brooklyn, N. Y. Watch-key and holding-tool	282,605	Aug. 7	158	48	24	528
Birch, John S., New York, assignor of one-third to C. C Cummings, Brooklyn, N. Y. Watch-key	282,606	Aug. 7	159	48	24	528
Birch, William A., San Francisco, Cal. Flower-pot holder and shield	286,993	Oct. 23	1535	423	25	296
Birchard, Pliny T. (See Lawrence, Mortimer D., assignor.)						
Bircher, Joseph, *et al.* (See Wood, Edwin A., assignor.)						
Bird, Bernard, Buffalo, N. Y. Car-coupling	273,339	Mar. 6	128	36	23	855
Bird, Francis L., Elizabeth, N. J. Composition for dry-stamping, &c	288,109	Nov. 13	509	.....	25	605
Bird, George M., Boston, Mass. Blacksmith's tongs	281,437	July 17	1368	377	24	253
Bird, George M., Boston, Mass. Fire-escape	290,313	Dec. 18	1170	327	25	1109
Bird, Michael J., East Saginaw, Mich. Blind	285,104	Sept. 18	1168	327	24	1118
Bird, Samuel. (See Pember and Bird.)						
Bird, Samuel, and S. Pember, Walpole, Mass. Carpet-lining	286,765	Oct. 16	1241	336	25	240
Birdlebough, Lucian, Taylor, N. Y. Folding manger	288,917	Nov. 20	1412	389	25	770
Birdsell, J. Benjamin, South Bend, Ind. Grain-separator	278,082	May 22	1906	522	23	1974
Birdsell, J. Benjamin, South Bend, Ind. Carriage-iron	279,527	June 19	1155	320	23	2334
Birdseye & Co., I. W. (See Doolittle and Sherwood, assignors.)						
Birdseye, I. W. (See Bray, Morris P., assignor.)						
Birdsong, John J., Medina, Tenn. Combined seed-planter and cultivator	272,632	Feb. 20	1324	371	23	687
Birge, George K., Buffalo, N. Y. Manufacture of wall-paper	278,212	May 22	2081	573	23	2004
Birkenhead, John, Mansfield, Mass. Lathe	272,849	Feb. 27	1616	452	23	746
Birkenhead, John, Mansfield, assignor to Sawyer Spindle Company, Boston, Mass. Spindle-bearing for spinning-machines. (Reissue)	10,288	Feb. 20	1605	449	23	736
Birkery, Cornelius, and H. S. Lord, assignors to Hartford Sanitary Plumbing Company, Hartford, Conn. Water-closet valve	272,196	Feb. 13	757	208	23	583
Birkett, James W., Brooklyn, N. Y. Automatic fire-extinguisher	280,009	June 26	1725	483	23	2440
Birmingham, David W., Clifton, N. Y. Roasting and disintegrating gold and silver ores	283,461	Aug. 21	1203	.....	24	729
Birmingham, David W., Clifton, N. Y. Roasting and disintegrating gold and silver ores. (Reissue)	10,400	Nov. 6	496	.....	25	594
Birmingham, Frank, Hornellsville, N. Y. Door-hanger	289,961	Dec. 11	729	205	25	1021
Birnbaum, George J. (See Birnbaum and Richmond, assignors.)						
Birnbaum, John, and J. T. Richmond, assignors of one-third to G. J. Birnbaum, Cincinnati, Ohio. Track-cleaner	287,411	Oct. 30	2066	561	25	401
Birney, A. A. (See Peyton, Cunningham R., assignor.)						
Bisbee, Wisner B., and G. D. Dudley; said Dudley assignor to F. Taylor, Lowell, Mass. Twine-holder	282,696	Aug. 7	266	77	24	545
Bishop & Babcock. (See Babcock, William A., assignor.)						
Bishop, Charles C., Nashville, Tenn. Vehicle-spring	274,880	Mar. 27	2099	583	23	1218
Bishop, George P., Newburyport, Mass. Hame-fastener	272,021	Feb. 13	545	147	23	547
Bishop, Henry, Baltimore, Md. Sunshade for bird-cages	290,838	Dec. 25	1867	516	25	1237
Bishop, Ira, Benicia, Cal. Elevating and carrying apparatus	285,873	Oct. 2	115	34	25	22
Bishop, James M., assignor of one-fifth to Thomson, Langdon & Co., Bridgeport, Conn. Corset-press	284,533	Sept. 4	456	129	24	981
Bishop, John W., New Haven, Conn. Automatic fire-extinguisher	276,343	Apr. 24	1900	527	29	1575
Bishop, John W., New Haven, Conn. Fire-extinguisher	283,196	Aug. 14	864	242	24	661
Bishop, Richard T., assignor of one-half to T. Hunt, St. Louis, Mo. Fender for railway-cars	276,999	May 8	611	160	23	1737
Bishop, Walter S., New Haven, Conn. Polishing-wheel	285,559	Sept. 25	1707	481	24	1221
Bishop, William, Brooklyn, N. Y. Water-closet	289,210	Nov. 27	1773	492	25	842
Bishop, William J., Philadelphia, Pa. Folding tripod support or stand	284,269	Sept. 4	138	39	24	928
Bishop, William R., and R. W. Eames, Columbus, Colo. Elevated endless single-track railway	288,400	Nov. 13	780	211	25	651
Bishop, William W., *et al.* (See Ollis, John W., assignor.)						
Bishop, William W., Virginia, Ill. Harness-loop	283,559	Aug. 21	1318	368	24	750
Bishoprick, Nicholas J., Brooklyn, N. Y. Automatic measure for furs and other materials	273,340	Mar. 6	129	36, 37	23	855
Bissell, Albert A., assignor of one-half to E. R. Knowlton, Joliet, Ill. Signal-light for railway-cars	278,213	May 22	2083	574	23	2004
Bissell, Albert A., Joliet, Ill., assignor of one-half to E. R. Knowlton. Revolving car-signal	285,380	Sept. 25	1497	421	24	1183
Bissell Carpet Sweeper Company. (See Bissell, Melville R., assignor.)						
Bissell, Hiram, Hartford, Conn. Plastering	288,200	Nov. 13	510	141	25	605
Bissell, Melville R., Grand Rapids, Mich. Carpet-sweeper	272,022	Feb. 13	546	148	23	547
Bissell, Melville R., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	285,000	Sept. 18	1043	292	24	1096

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bissell, Simeon, *et al.* (See Taylor, William, assignor.)						
Bissell, Simeon, Pittsburg, Pa., assignor to T. Bakewell, trustee. Metallurgical furnace	286,110	Oct. 2	406	111	25	75
Bisset, John G. (See Edward and Bisset.)						
Bissett, Thomas M., *et al.* (See Palmer, George H., assignor.)						
Bissicks, Joseph J. (See Coates and Bissicks.)						
Bisson, Ernest, Paris, France. Mariner's compass	289,209	Nov. 27	1772	491	25	841
Bitner, Abraham, Lancaster, Pa. Dust-proof watch	273,938	Mar. 13	901	246	23	995
Bittenbender, Eli, and M. L. Snyder, assignors of one-fourth to F. T. and G. H. Bittenbender, Plymouth, Pa. Coal-drilling machine	273,443	Mar. 6	260	70	23	878
Bittenbender, Frederick T., *et al.* (See Bittenbender and Snyder, assignors.)						
Bittenbender, George H., *et al.* (See Bittenbender and Snyder, assignors.)						
Bittenbender, John K., Bloomsburg, Pa. Inking apparatus	270,886	Jan. 23	1310	378	23	276
Bitting, Mahlon B. (See Weirbach and Bitting.)						
Bitzer, Samuel B., *et al.* (See Shallus, William W., assignor.)						
Bixby, Arthur, assignor to International Fire Escape Company, Baltimore, Md. Fire-escape	290,961	Dec. 25	2023	558	25	1263
Bixby, H. H. (See McCollum, James C., assignor.)						
Bixby Samuel M., New York, N. Y. Bottle	273,444	Mar. 6	262	71	23	878
Bixby, Samuel M., New York, N. Y. Handled paper vessel	280,010	June 26	1726	484	23	2440
Bixler, Henry, Kinnikinnik, Ohio. Sausage-stuffer	283,852	Aug. 28	1671	472	24	826
Bize, Daniel R., Columbus, Ga. Trace-carrier	289,211	Nov. 27	1776	492	25	842
Black, Alexander G. (See Murray, Maurice M., assignor.)						
Black, Aretus E., and R. English, Marlette, Mich. Safety-plate for railway-switches	276,554	May 1	11	3	23	1628
Black & Clawson Company. (See Kaffenberger, Gustav, assignor.)						
Black, David F., Brooklyn, N. Y., assignor to himself and T. Foldberg, Princeton, N. J. Fire-escape	275,121	Apr. 3	318	88, 89	23	1280
Black, Frank X., *et al.* (See See, James W., assignor.)						
Black, G. S., *et al.* (See Atkinson, Henry C., assignor.)						
Black, Horace S. (See Glidden, Greenlief, assignor.)						
Black, Jodie, *et al.* (See Atkinson, Henry C., assignor.)						
Black, Richard W. (See Lancaster, Bradford F., assignor.)						
Black, Stephen S., Fredericton, New Brunswick, Canada. Railway-car seat	287,999	Nov. 6	269	76	25	554
Black, William, South Shields, and T. Larkin, East Jarrow, county of Durham, England. Ore-roasting furnace	278,859	June 5	256	74	23	2166
Black, William L., St. Louis, Mo. Cotton-harvesting machine	276,661	May 1	150	38, 39	23	1651
Black, William L., St. Louis, Mo. Fire-proof building	278,491	May 29	2462	671	23	2079
Black, William P., *et al.* (See Gowan, James H., assignor.)						
Blackall, Burton F., and J. C. Decker, Rochester, N. Y. Pole for galvanic batteries	274,899	Apr. 3	10	3	23	1228
Blackall, Robert C., Albany, N. Y. Relief-valve for locomotive-engines	283,749	Aug. 28	1555	438	24	807
Blackburn, Frederick, Palmyra, assignor to F. H. Hovey, Beverly, N. J. Straw-braid-sewing machine	279,855	June 19	1531	428	23	2399
Blackburn, George, assignor to Standard Boiler and Smoke Consuming Furnace Company, Columbus, Ohio. Smoke-consuming furnace	277,978	May 22	1786	487	23	1952
Blackhall, Edward W., Toronto, Ontario, Canada. Ruling-machine	273,016	Feb. 27	1816	509	23	779
Blackhall, William B., Toronto, Ontario, Canada. Removable book-cover	283,853	Aug. 28	1672	472	24	827
Blackham, Eli J., Bridgeport, assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Drawer-pull	275,326	Apr. 3	566	154	23	1322
Blackman, Alanson A., E., and H., Snohomish, Wash. Ter. Locomotive	272,633	Feb. 20	1326	372	23	687
Blackman, Elhanan. (See Blackman, Alanson A., E., and H.)						
Blackman, Henry. (See Parker and Blackman.)						
Blackman, Hyrcanus. (See Blackman, Alanson A., E., and H.)						
Blackman, James M., Chicago, Ill Ventilator	273,805	Mar. 13	731	198	23	968
Blackman, Jared C., assignor of one-half to E. L. Strong, Danbury, Conn. Medical compound	276,153	Apr. 24	1654	.....	23	1534
Blackman, William I., Columbus, Miss. Book-binding	286,254	Oct. 9	563	160	25	117
Blackmer, Walter M., assignor of one-half to O. F. Comstock, Detroit, Mich. Filter	281,336	July 17	1246	345	24	233
Blackstock, Thomas M., Sheboygan, Wis. Fastening device for chairs	272,406	Feb. 20	1038	291	23	636
Blackwell, Richard C. (See Hughes and Blackwell.)						
Blackwell, Richard C., assignor of one-third to W. H. Lewis, Henderson, Ky. Running-gear for wagons	290,170	Dec. 11	979	276	25	1068
Blackwell, Richard C., assignor of one-fourth to W. H. Lewis, Henderson, Ky. Wagon running-gear	290,171	Dec. 11	980	277	25	1068
Blackwood, John. (See Ganss, Jacob, assignor.)						
Blackwood, William, Jr., Detroit, Mich. Wash-stand	275,122	Apr. 3	321	89	23	1282
Blade, John M., Alpha, Ill. Cultivator	288,764	Nov. 20	1233	338	25	736
Blain, David, Toronto, Ontario, Canada. Dredge and mining machine	276,215	Apr. 24	1726	478	23	1546
Blair, George W. (See Fougeres and Blair.)						
Blair, George W., Wabash, Ind. Shaft-support	279,076	June 5	568	156	23	2221
Blair, George W., and J. Willetts, Pittsburg, Pa. Glass-melting furnace	283,462	Aug. 21	1204	338	24	729
Blair, James C., assignor of two-thirds to O. A. Nicklaus, Columbus, and A. D. Houston, Logan, Ohio. Frictional hinge for mirrors, &c	290,839	Dec. 25	1868	516	25	1237
Blair, John J., Tocoma, Wash. Ter. Rotary engine	281,004	July 10	820	228	24	152
Blair, John M., Cincinnati, Ohio. Metallic pallet for brick	279,528	June 19	1156	320	23	2334
Blair, William S., Philadelphia, Pa. Vulcanizer safety-guard and governor	286,766	Oct. 16	1242	336	25	240
Blake, Andrew M., Canton, Ohio. Snap-hook	280,283	June 26	2046	575	23	2497
Blake, C. E. (See Blake, Harry, assignor.)						
Blake, Charles R., Frankfort, Ind. Watch-regulator	285,959	Oct. 2	230	65	25	44
Blake, Clarence J., trustee. (See Richardson, William S., assignor.)						
Blake, David E. (See Smith and Blake.)						
Blake, Francis, Weston, Mass. Switch-board for electric circuits	276,216	Apr. 24	1728	478	23	1546
Blake, Francis, Jr., Weston, Mass. Speaking-telephone	283,062	Aug. 14	704	197	24	632
Blake, George F., Belmont, Mass. Check-valve	270,573	Jan. 16	921	265	23	197
Blake, George F., Belmont, Mass. Steam pumping-engine	270,574	Jan. 16	922	266	23	197
Blake, George F., Belmont, Mass. Duplex pumping-engine	270,575	Jan. 16	923	266 267	23	198
Blake, George F., Belmont, Mass. Pump	271,775	Feb. 6	227	63	23	480
Blake, George W., Port Townsend, Wash. Ter. Buckle	272,197	Feb. 13	758	209	23	593
Blake, Harry, assignor to himself and C. E. Blake, Chicago, Ill. Motive power	283,063	Aug. 14	704	197	24	632
Blake, Henry, Pepperell, Mass., assignor of one-half to J. A. Greene, Brooklyn, N. Y. Belt-fastener	282,258	July 31	2433	669	24	445
Blake, John E., and C. A. Hall, New York, N. Y. Electrical low-water alarm	286,581	Oct. 16	1005	271	25	199
Blake, John F., New York, N. Y. Apparatus for exhibiting illusions	273,445	Mar. 6	264	71	23	878
Blake, John H., Batavia, N. Y. Rotary engine	273,446	Mar. 6	265	71	23	878
Blake, Joseph E. (See Thompson, George H., assignor.)						
Blake, Mead, Compton, Quebec, Canada. Roofing-paint	286,255	Oct. 9	584	.....	25	117

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Blake, Robert. (See Davis and Blake.)						
Blake, S. P., *et al.* (See Carter, Alba B., assignor.)						
Blake, Theodore A., New Haven, Conn. Feed mechanism for ore-crushers	277,666	May 15	1419	383	23	1881
Blakely, Caleb J., *et al.* (See Angell, Russell R., assignor.)						
Blakely, Caleb J., assignor of two-thirds to L. N. Williamson and W. S. Webber, Janesville, Wis. Boot and shoe burnishing machine	270,729	Jan. 16	1121	321	23	235
Blakeman, John D., Smith's Grove, Ky. Trace-detacher	286,767	Oct. 16	1243	336	25	240
Blaker, John D., Newtown, Pa. Ax-handle	271,303	Jan. 30	1823	529	23	369
Blakeslee, Albert J., Duquoin, Ill. Valve-gear for steam pumping-engines	270,576	Jan. 16	924	267	23	198
Blakeslee, Burton E., assignor to R. H. Blakeslee, J. H. Shepherd, and S. T. Richardson, Cambridge, Md. Headway and leeway indicator for vessels	290,840	Dec. 25	1868	516	25	1237
Blakeslee, Charles, *et al.* (See Frost, Howard B., assignor.)						
Blakeslee, Cornelius, *et al.* (See Ives, Edward R., assignor.)						
Blakeslee, Harvey D., *et al.* (See Latta, Emmit G., assignor.)						
Blakeslee, Rebecca H., *et al.* (See Blakeslee, Burton E., assignor.)						
Blakesley, Gilbert H. (See Lewis and Blakesley.)						
Blakesly, Lucius W., *et al.* (See Chandler and Williams, assignors.)						
Blalock, David. (See Groening, Winfield S., assignor.)						
Blanchard, Charles H., Batavia, Ohio. Automatic fan	271,211	Jan. 30	1712	496	23	350
Blanchard, Frank A., Cotile, La. Sulky sod-cutter	274,706	Mar. 27	1888	526	23	1183
Blanchard, George A., Malden, Mass. Skirt-protector	275,014	Apr. 3	171	46	23	1255
Blanchard, George R., *et al.* (See Frishmuth, William, assignor.)						
Blanchard, Helen A., Philadelphia, Pa. Spool-case	276,344	Apr. 24	1901	527	23	1575
Blanchard, Henry S., Cairo, Ill. Quadricycle for land and water	277,667	May 15	1420	383	23	1882
Blanchard, Kirk S., Clarendon, N. Y. Car-coupling	285,769	Oct. 2	11	3	25	4
Blanchard, Thomas. (See Cunningham, John M., assignor.)						
Blanchard, Thomas, Stoughton, Mass. Speed-indicator	282,487	Aug. 7	9	3	24	502
Blanchard, Virgil W., New York, N. Y. Portable building	271,776	Feb. 6	228	64, 65	23	480
Blanchard, Virgil W., New York, N. Y. Steam-boiler	289,962	Dec. 11	729	206	25	1021
Blanchard, Virgil W., New York, N. Y. Furnace	289,963	Dec. 11	732	207	25	1022
Blanchard, Virgil W., New York, N. Y. Superheater for steam-boilers	289,964	Dec. 11	735	208	25	1023
Blanchard, Virgil W., New York, N. Y. Air-heater for furnaces	290,172	Dec. 11	981	277	25	1068
Blanchard, William H., Gainesville, Ga. Machine for filing cotton-gin and linter saws	280,900	July 10	691	194, 195	24	128
Bland, James. (See Champlin and Bland.)						
Blandin, Charles, La Pointe-à-Pitre, Guadeloupe, West Indies. Apparatus for coagulating the albuminous matter contained in sugar-cane	287,902	Nov. 6	141	41	25	533
Blandy, Fred. J. L. (See Haehnlen, William, assignor.)						
Blank, Hugo, Berlin, Germany. Fly-wheel	284,369	Sept. 4	255	70	24	947
Blankman, John S., Denver, Colo. File-holder or temporary binder	284,534	Sept. 4	459	130	24	982
Blanshan, John, Le Fever Falls, N. Y. Clock-escapement	283,957	Aug. 28	1801	510	24	851
Blascow, David H., and S. Fichtner, Milwaukee, Wis. Hammock	277,829	May 15	1605	438	23	1915
Blasier, David J., Westonville, N. Y. Feathering paddle-wheel	276,662	May 1	152	39	23	1652
Blass, Talmadge, assignor to W. Angevine and G. S. Frink, Millerton, N. Y. Injection-regulator for steam-condensers	289,609	Dec. 4	296	83	25	940
Blass, Talmadge, assignor to W. Angevine and G. S. Frink, Millerton, N. Y. Suction-condenser for steam-pumps	289,748	Dec. 4	474	134	25	969
Blatch, Thomas G. (See Clark and Blatch.)						
Blatchley, Albert B (See Blatchley, Albert P., assignor.)						
Blatchley, Albert C., administrator. (See Blatchley, Albert P.)						
Blatchley, Albert P., deceased; A. C. Blatchley administrator and assignor to A. B. Blatchley, Deposite, N. Y. Steam-boiler	289,610	Dec. 4	297	83	25	940
Blatchly, Ambrose, San Francisco, Cal. Sewer-gas trap	276,217	Apr. 24	1729	478, 479	23	1547
Blaylock, John, Winona, Miss. Plow	280,122	June 26	1857	523	23	2464
Bleakley, William I. (See Morris, George M., assignor.)						
Bledsoe, Robert B., Alvarado, Tex. Quilting-frame	281,605	July 17	1581	433	24	289
Bledsoe, Robert B., Alvarado, Tex. Quilting-frame	281,826	July 24	1882	514	24	347
Blessing, James H., Albany, N. Y. Pump-valve	272,198	Feb. 13	760	209	23	583
Blessing, James H., Albany, N. Y. Valve	272,634	Feb. 20	1327	372	23	687
Blessing, James H., Albany, N. Y. Combined check-valve, stop-cock, and blow-off valve	272,635	Feb. 20	1329	373	23	688
Blessing, James H., Albany, N. Y. Drain and returning steam trap	278,390	May 29	2337	639	23	2057
Blessing, James H., Albany, N. Y. Straight-way check-valve	281,438	July 17	1369	378	24	254
Blessing, James H., Albany, N. Y. Check-valve	281,439	July 17	1370	378	24	254
Blessing, James H., Albany, N. Y. Pump-regulator	282,042	July 31	2145	588, 589	24	397
Blessing, James H., Albany, N. Y. Steam-pump	283,064	Aug. 14	705	198	24	633
Blessing, James H., Albany, N. Y. Check-valve	290,314	Dec. 18	1171	328	25	1109
Blessing, James H., Albany, N. Y. Friction-clutch	290,517	Dec. 18	1452	401	25	1157
Blessing, James H., Albany, N. Y. Steam-heating apparatus	290,662	Dec. 25	1639	451	25	1196
Bleyney, John C., Newark, N. J. Machine for manufacturing type	290,628	Dec. 18	1592	437, 438	25	1181
Blighton, D. Franklin. (See Blighton, William V. R. and D. F.)						
Blighton, D. Franklin, Buffalo, N. Y. Track-bolt lock	278,678	June 5	4	1	23	2125
Blighton, D. Franklin, Tonawanda, N. Y. Locking device for bolts	287,795	Nov. 6	9	3	25	508
Blighton, D. Franklin, Buffalo, N. Y. Track-bolt lock	289,379	Dec. 4	10	4	25	888
Blighton, William V. R., Tonawanda, N. Y. Nut-lock	287,196	Nov. 6	10	3	25	509
Blighton, William V. R. and D. F., Tonawanda, N. Y. Nut and lock for the same	275,570	Apr. 10	920	249	23	1391
Blinn, Joseph S., New Haven, Conn. Needle for fancy work	279,693	June 19	1345	374	23	2366
Bliss, Abel H. (See Tripp, Sylvanus L., assignor.)						
Bliss, Abel H., assignor of one-half to S. L. Tripp, Chicago, Ill. Amalgamator	279,319	June 12	876	244	23	2282
Bliss, Eliphalet W. (See Jordan, Edmund, assignor.)						
Bliss, Ellis B., Washington, D. C. Dental spittoon	274,105	Mar. 20	1107	305, 306	23	1039
Bliss, Francis D., New Haven, Conn. Axle-box	288,299	Nov. 13	631	173	25	626
Bliss, James F. (See Ross and Bliss.)						
Bliss, William H., Norwich, Conn. Safety-lock for fire-arms	283,854	Aug. 28	1673	472	24	827
Bliven, Alonzo P., Brooklyn, N. Y., assignor to American Quick Transit Steamship Company, Boston, Mass. Screw-propeller	271,212	Jan. 30	1713	496	23	350
Bliven, Alonzo P., Brooklyn, N. Y., assignor to American Quick Transit Steamship Company, Boston, Mass. Construction of ships	271,213	Jan. 30	1714	496	23	350
Bliven, Charles F., Worcester, Mass. Dental plugger	279,908	June 26	1599	448	23	2418
Blitz, Rudolf, Paris, France. Manufacture of paper, &c	289,212	Nov. 27	1776	.....	25	842
Bloch, Baruch, assignor to P. Garcet & Nisius, Paris, France. Device for aiding swimmers	281,005	July 10	822	229	24	152

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bloch, Herman, New York, N. Y. Combined cigarette and match box	283,065	Aug. 14	706	198	24	633
Blochman, Emanuel, and G. R. Evans, San Francisco, Cal. Atmospheric bed	272,116	Feb. 13	669	182	23	567
Blochman, Emanuel, and G. R. Evans, San Francisco, Cal. Bed or pillow	277,979	May 22	1787	487	23	1952
Block, David. (See Rundback, Joseph, assignor.)						
Block, David, New York, N. Y. Knife-box	283,066	Aug. 14	706	198	24	633
Block, David, New York, N. Y. Ear for tin pails	285,105	Sept. 18	1169	327	24	1118
Block, Joe, *et al.* (See Rice, Joel F., assignor.)						
Block, Louis, Jersey City, N. J. Apparatus for superheating steam	275,571	Apr. 10	920	249	23	1391
Blodgett, Aaron D., Boston, R. M. Read, Cambridge, and J. P. Tirrell, Boston, Mass. Electric signal for railway-stations	284,114	Aug. 28	2016	560, 561	24	887
Blodgett, Gardner S., assignor of one-half to E. P. Manor, Burlington, Vt. Oven for cooking, baking, or drying	288,201	Nov. 13	510	142	25	605
Blodgett, George W., Boston, and G. R. Hardy, Newton, Mass. Railway-signal	284,716	Sept. 11	691	194	24	1027
Blodgett, Henry L., Chicago, Ill. Sash-fastener	277,980	May 22	1787	487	23	1952
Blodgett, John W., Chicago, Ill. Button-hole attachment for sewing-machines	279,320	June 12	877	244, 245	23	2282
Bloedon, Louis, Bay City, Mich. Bed-bottom fire-escape	284,802	Sept. 11	795	222	24	1045
Blohm, Ludwig, Chicago, Ill. Mold for forming ornamental moldings	283,560	Aug. 21	1319	368	24	750
Blomquist, Carl A., and T. Buskirk, assignors of one-third to A. W. Machen, Toledo, Ohio. Wrench	284,598	Sept. 11	537	152	24	1001
Blood, Edwin J., Chicago, Ill. Hame tug and trace adjuster	276,555	May 1	12	4	23	1629
Blood, Edwin J., Chicago, Ill. Elastic cushion for cutter-bars	280,901	July 10	693	195	24	129
Blood, Edwin J., Chicago, Ill. Elastic cushion for cutter-bars	280,902	July 10	694	195	24	129
Blood, Edwin J., assignor of one-third to W. H. Stubbings, Chicago, Ill. Reaping and mowing machine	273,341	Mar. 6	132	37	23	856
Blood, Frederick W., Liverpool, county of Lancaster, England. Box-nailing machine	272,199	Feb. 13	761	209, 210, 211	23	583
Blood, Hiram, assignor to himself and L. H. Dale, East Cambridge, Mass. Link-box for steam-engines	278,766	June 5	110	31	23	2142
Blood, Maurice E. (See Marsh and Blood.)						
Blood, Maurice E., assignor to himself, C. W. and W. W. Marsh, Sycamore, Ill. Grain-binding harvester	275,751	Apr. 10	1150	315, 316	23	1430
Blood, Maurice E., assignor to himself, C. W. and W. W. Marsh, Sycamore, Ill. Cord-tying device for grain-binders	278,083	May 22	1907	522, 523, 524, 525	23	1974
Blood, Maurice E., assignor to himself, C. W. and W. W. Marsh, Sycamore, Ill. Grain-adjusting device for harvesters	278,492	May 29	2462	672	23	2079
Bloom, David, Sandwich, Ill., assignor to M. J. S. Marshall, Boston, and S. G. Lane, Cambridge, Mass. Mail-bag	282,152	July 31	2303	632	24	422
Bloom, Jacob E. (See Woeber, Amos, assignor.)						
Bloom, John P. (See Porter, Bloom, and Aspin.)						
Bloomfield, Ellis S., Jr., Jersey City, N. J., assignor of one-sixth to Starr Brothers Bell Company, East Hampton, Conn. Door-bell	289,804	Dec. 11	538	150	25	987
Bloomfield, Joseph H., Rio, and M. W. Boone, Galesburg, Ill.; said Boone assignor to said Bloomfield. Railway-rail joint	282,259	July 31	2434	669, 670	24	445
Bloss, Robert. (See Holmgreen, Julius H., assignor.)						
Blossom, Cyrus H., Algona, Iowa. Cream-can	283,958	Aug. 28	1802	510	24	851
Blount, Eugene I. (See Blount, William C. and E. I.)						
Blount, Eugene I., Cambridge, Mass. Pneumatic door-check	289,380	Dec. 4	10	4	25	889
Blount, William C., Boston, and E. I. Blount, Cambridgeport, Mass. Lock	273,939	Mar. 13	901	246	23	996
Blow, Walter W., Oakland, Cal. Watch-holder	283,855	Aug. 28	1675	472	24	827
Blowers, Azor, Cambridge, Mich. Bolt-cutter	275,015	Apr. 3	172	46	23	1255
Blowers, George O., Canajoharie, N. Y. Paper bag	286,896	Oct. 16	1406	386	25	268
Blowers, George O., Canajoharie, N. Y. Making paper bags	287,753	Oct. 30	2522	680	25	488
Blue, Dennis S., Fremont, Ohio. Whiffletree-hook	271,777	Feb. 6	232	65	23	481
Blue, Dennis S., assignor of one-half to F. Fabing, Fremont, Ohio. Hose-coupling	290,663	Dec. 25	1639	451	25	1196
Blum, Robert. (See Mantz and Blum.)						
Blume, Herman, New York, N. Y. Velocipede	275,979	Apr. 17	1433	395	23	1489
Blumenberg, Israel R., Washington, D. C. Indestructible compound for lining and coating tubes, cylinders, and other vessels, electric wires, also for joint-packing, taking impressions, making castings, molds, and ornaments, and ornamental work	275,123	Apr. 3	322	.....	23	1282
Blumenberg, Israel R., Washington, D. C., and H. W. Whiting, assignors to Hydrocarbon Burner and Fuel Company, Philadelphia, Pa. Hydrocarbon-vapor generator and burner	275,124	Apr. 3	323	90	23	1282
Blumenberg, Israel R., and H. W. Whiting, Philadelphia, Pa., assignors to Hydro-Carbon Burner and Fuel Company, of New Jersey. Hydrocarbon-vapor generator and dianton burner	278,860	June 5	257	74, 75	23	2167
Blumenberg, Israel R., deceased; W. Blumenberg administratrix and assignor to F. H. Smith, Washington, D. C. Vapor generator and motor	290,962	Dec. 25	2024	559	25	1263
Blumenberg, Israel R., deceased; W. Blumenberg administratrix and assignor to F. H. Smith, Washington, D. C. Vapor generator and motor	290,963	Dec. 25	2029	559, 560	25	1264
Blumenberg, Israel R., deceased; W. Blumenberg administratrix and assignor to F. H. Smith, Washington, D. C. Vapor generator and motor	290,964	Dec. 25	2034	560	25	1264
Blumenberg, Israel R., deceased; W. Blumenberg administratrix and assignor to F. H. Smith, Washington, D. C. Vapor-engine packing and lubricating device	290,965	Dec. 25	2039	561	25	1265
Blumenberg, Wilhelmina, administratrix. (See Blumenberg, Israel R.)						
Blunt, William S., New York, N. Y. Automatic tornado-breaker	290,966	Dec. 25	2040	561	25	1265
Blust, Charles, Mansfield, Ohio. Washing-machine	286,378	Oct. 9	753	203	25	147
Blydenburgh, Charles M., Riverhead, N. Y. Spring-vehicle	275,572	Apr. 10	922	249, 250	23	1391
Blydenburgh, Charles M., Riverhead, N. Y. Carriage-pole	287,412	Oct. 30	2067	562	25	401
Blydenburgh, Charles M., Riverhead, N. Y. Vehicle	289,883	Dec. 11	641	178, 179	25	1005
Blythe, James M. (See Wren, William A., assignor.)						
Bocemades, George W. (See Grilley, Thomas M., assignor.)						
Boch, Philipp, New York, N. Y. Magazine-gun	272,636	Feb. 20	1330	373	23	688
Boch Philipp, New York, N. Y. Magazine fire-arm	287,090	Oct. 23	1658	455, 456	25	320
Boch, Philipp, assignor of one-tenth to J. Oster, New York, N. Y. Magazine-gun	276,522	Apr. 24	2120	589, 590	23	1613
Bock, George J., Zanesville, Ohio. Pocket-fastening for billiard or pool tables	273,447	Mar. 6	267	72	23	878
Bockius, A. R., *et al.* (See Hunter, George W., assignor.)						
Bodell, Allen W., Canton, Ohio. Cash-carrier	278,767	June 5	111	31, 32	23	2142

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bodell, Allen W., Toledo, assignor of one-half to P. P. Bush, Canton, Ohio. Tile and brick machine	281,606	July 17	1582	433	24	289
Bodenhamer, Levi I., Kernersville, N. C. Plow	277,205	May 8	873	232	23	1781
Bodenhamer, Levi I., Kernersville, N. C. Car-coupling	279,217	June 12	751	207	23	2262
Bodenhamer, Levi I., Kernersville, and W. E. Ashley, Raleigh, N. C.; said Ashley assignor of one-half to said Bodenhamer. Car-coupling	289,611	Dec. 4	298	83	25	940
Bodey, Howard, Norristown, Pa. Check, draft, note, &c	281,006	July 10	822	229	24	152
Bodge, Joseph G., Waterville, Me. Machine for forming hollow ware from wood pulp	287,614	Oct. 30	2342	632	25	454
Bodifield, Charles T., and J. Arnett, Cleveland, Ohio. Hose-protector	289,381	Dec. 4	12	4	25	889
Bodine, Jacob, Jersey City, N. J. Sewer-trap	287,413	Oct. 30	2068	562	25	401
Boecher, Adam, New York, N. Y. Mechanical movement	272,200	Feb. 13	763	211	23	584
Boenke, Ernst T. M., New York, N. Y. Necktie-fastener	282,153	July 31	2304	632	24	423
Boesch, Emile, San Francisco, Cal. Tubular lantern	277,444	May 15	1156	310	23	1838
Boesch, Emile, San Francisco, Cal. Side and center lamp and reflector for street-cars	283,693	Aug. 21	1472	415	24	780
Boettcher, Emil, Leipsic, Germany. Secondary battery	277,445	May 15	1157	311	23	1838
Boettcher, Theodor, Mendota, Ill. Sulky	274,167	Mar. 20	1189	327	23	1054
Bogard, John J., assignor of one-half to T. C. Kuhnle, St. Louis, Mo. Packing-box for bottles, &c	276,218	Apr. 24	1730	479	23	1547
Bogardus, Adam H., Elkhart, Ill. Flying target	288,000	Nov. 6	271	76	25	554
Bogart, A. Livingston, Jamaica, N. Y. Electric-circuit cut-out	279,634	June 19	1275	354	23	2355
Bogart, A. Livingston, Jamaica, N. Y. Electric lighting gas-burner	282,043	July 31	2146	589	24	398
Bogart, A. Livingston, Jamaica, N. Y. Electric-circuit cut-off	290,732	Dec. 25	1738	480	25	1214
Bogert, John L., Flushing, N. Y. Device for reciprocating the cutter-heads of planing and slotting machines	278,084	May 22	1915	525	23	1975
Bogert, Mortimer P., assignor to J. B. Oelkers, Newark, N. J. Combining celluloid, &c., with woven or knitted fabric, &c	270,538	Jan. 9	873	254	23	181
Boggs, Henry H. (See Carley, Powell, and Boggs.)						
Boggs, John C., Auburn, Cal. Hasp-lock	282,607	Aug. 7	160	48	24	529
Bogia, Matthew C., Philadelphia, Pa. Toy	286,379	Oct. 9	755	203	25	147
Bogle, Walter S., assignor of one-half to W. R. King, Chicago, Ill. Apparatus for unloading coal from vessels	290,284	June 26	2047	575	23	2497
Bohner, George and J. E., Chicago, Ill. Extension-lamp	285,381	Sept. 25	1499	422	24	1183
Bohner, Joseph E. (See Bohner, George and J. E.)						
Böhringer, Alexander, Stuttgart, Wurtemberg, Germany. Producing monalcylised hydrobases	282,488	Aug. 7	10	.....	24	502
Bohsert, Frederick, New York, N. Y. Surgical chair	290,841	Dec. 25	1870	516	25	1237
Boice, Reed V., Toledo, Ohio. Machine for making wooden rings	273,806	Mar. 13	733	199	23	968
Boice, Reed V., Toledo, Ohio. Cutter-head	275,459	Apr. 10	780	209	23	1368
Boice, Henry M., Scranton, Pa. Car-wheel	290,518	Dec. 18	1454	402	25	1158
Boisen, William, Luzerne, Iowa. Window-frame	276,219	Apr. 24	1731	479	23	1547
Bokenkotter, John S., Cincinnati, Ohio. Shoe	281,007	July 10	823	229	24	152
Bokop, Henry D., assignor to himself and D. B. Turnbull, Defiance, Ohio. Tire-setter	274,168	Mar. 20	1189	327	23	1054
Boland, William A. (See Sweet, Parker H., Jr., assignor.) (Reissue.)						
Boland, William A., Lynn, Mass. Button-setting apparatus	288,401	Nov. 13	782	211	25	651
Boldon, Joseph. (See Godley and Boldon.)						
Boldt, Friederich W. A., assignor to Boldt & Vogel, Hamburg, Germany. Machine for capsuling bottles	271,304	Jan. 30	1824	529	23	369
Boldt & Vogel. (See Boldt, Friederich W. A., assignor.)						
Bolender, Harrison W. (See Schoch and Bolender.)						
Bolgiano, Edward H., Camden, N. J. Convertible chair	277,871	May 22	1664	454	23	1932
Bolgiano, Edward H., Camden, N. J. Convertible chair	280,711	July 3	447	128	24	80
Bolgiano, Edward H., Camden, N. J. Convertible chair	282,154	July 31	2305	633	24	423
Boling, William R., Ocheydan, Iowa. Wagon-gear	287,797	Nov. 6	11	3	25	509
Bollack, Henry, and G. Mayer, Paris, France. Umbrella	281,827	July 24	1883	514	24	247
Bollermann, Carl L., New York, N. Y. Rotary leader-link for fishing-lines	289,612	Dec. 4	300	84	25	940
Bolles, James H., Dallas, Tex. Miter and framing square	288,613	Nov. 20	1037	286	25	703
Bollinger, Elias, Louisville, Md. Apparatus for amalgamating ores	278,861	June 5	260	75	23	2167
Bollman, John F., Cincinnati, Ohio. Tree-feller and block-dresser	285,874	Oct. 2	116	34	25	23
Bollotte, Etienne, Soldier, Kans. Automatic corn-planting attachment	285,560	Sept. 25	1708	482	24	1221
Bollow, Henry, *et al.* (See Dumke, Frank F., assignor.)						
Bolt, Daniel A., Harrisburg, Pa. Seal-lock	286,768	Oct. 16	1243	{336 337}	{25}	241
Bolt, Marlin S., and J. W. Lunn, Elmira, N. Y. Fan attachment for sewing-machines, &c	270,926	Jan. 23	1360	392	23	284
Bolte, Frank H., assignor to Egelhoff Manufacturing Company, Milwaukee, Wis. Hay-carrier	276,556	May 1	13	4	23	1629
Bolte, Frank H., assignor to Egelhoff Manufacturing Company, Milwaukee, Wis. Horse hay-fork	283,694	Aug. 21	1474	415	24	780
Bolton, Charles E., and M. Rankin, Cleveland, Ohio. Paper-box machinery	284,599	Sept. 11	538	152	24	1002
Bolton, Charles E., F. H Strieby, and M. Rankin, Cleveland, Ohio. Box and package filler	277,540	May 15	1270	340	23	1856
Bolton, Gideon S., *et al.* (See Dunn, William, assignor.)						
Bolton, James, and A. D. Pentz, Chicago, Ill. Clamp-guide for button-hole sewing-machines	277,106	May 8	752	198	23	1760
Bolton, Simeon R. (See Keith and Bolton.)						
Boman, Claes W., assignor to J. Reckendorfer, New York, N. Y. Holder for knife-blades	273,222	Feb. 27	2073	583	23	895
Boman, Claes W., assignor to J. Reckendorfer, New York, N. Y. Lead or crayon holder	275,125	Apr. 3	326	90	23	1282
Boman, Claes W., assignor to J. Reckendorfer, New York, N. Y. Holder for knife-blades. (Reissue)	10,335	June 5	634	172	23	2231
Bond, Edmund E., *et al.* (See Pattyson, William D. C., assignor.)						
Bond, Henry F., West Newton, Mass. Centrifugal creamer	286,769	Oct. 16	1245	337	25	241
Bond, Hiram. (See Bourgeois, Edward, assignor.)						
Bond, Hiram, Haverhill, Mass. Sole or heel burnishing machine	276,345	Apr. 24	1902	528	23	1575
Bond, Isaac L., *et al.* (See Bush, Arthur W., assignor.)						
Bond, Joseph, Jr., assignor of one-half to C. M. Swain, Philadelphia, Pa. Sewing-machine	288,763	Nov. 20	1234	338	25	736
Bond, Joseph L. (See Stevens and Bond.)						
Bond, Joseph N. B., assignor to J. N. B. Bond, Jr., New York, N. Y. Apparatus for the manufacture of fertilizers from offal, &c	270,003	Jan. 2	211	61	23	43
Bond, Joseph T., Chelsea, Mass. Sugar-bowl	275,350	Apr. 10	634	169	23	1343
Bond, Nathan O., Fairfax, Va., assignor to J. F. Johnson and F. W. Pratt, Washington, D. C. Wash-stand	285,001	Sept. 18	1044	292	24	1096
Bond, William E., Cleveland, Ohio. Outrigger for boats	276,220	Apr. 24	1732	479	23	1547
Bonds, George W. (See Jackson and Bonds.)						
Bonds, George W., San Francisco, Cal. Key-seat-cutting machine	289,060	Nov. 27	1593	441	25	809
Bonett, Edwin J., T. Gilfillan, and A. W. Flanders, Barnet, Vt. Flower-stand	276,663	May 1	153	39	23	1652
Bonn, John H., Weehawken, and A. De Bevoise, West Hoboken, N. J. Combined chair, knee, and truss bracket	282,697	Aug. 7	267	77	24	546

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bonnefond, Michel, assignor to Ste. Peuvrez & Cie, Paris, France. Device for covering water-closet seats	279,218	June 12	752	207, 208	23	2262
Bonnell, James A., assignor to National Interlocking Switch and Signal Company, New York, N. Y. Torpedo-holding attachment for railway danger-signals	290,391	Dec. 18	1268	356	25	1126
Bonney, Otto M., and N. D. Lamoreux, St. Louis, Mo. Attachment for sewing-machines	286,994	Oct. 23	1536	423	25	296
Bonninghausen, Hugo, Detroit, Mich. Lawn-sprinkler	273,940	Mar. 13	903	247	23	996
Bonsilate Company. (See Hyatt and Lockwood, assignors.)						
Bonsilate Company. (See Lockwood, Charles S., assignor.)						
Bonta, James W., assignor to Giant Air Injector Manufacturing Company, (limited,) Philadelphia, Pa. Air-injector for furnaces	287,754	Oct. 30	2523	680	25	488
Bonte, Philipp, Chicago, Ill. Thermo steam-pressure gage	277,446	May 15	1158	311	23	1838
Bonwill, William G. A., Philadelphia, Pa. Dental or surgical engine	282,044	July 31	2147	589	24	396
Bonzano, Adolphus, Phœnixville, Pa. Traction-rope railway	281,440	July 17	1371	378	24	254
Bonzano, Adolphus, Phœnixville, Pa. Conduit for traction-rope railways	287,220	Oct. 23	1827	500	25	350
Bookstaver, James N. (See Leggett, William, assignor.)						
Bools, Zadock H. (See Wilson and Bools.)						
Boomer, George B., Tarrytown, N. Y. Screw-press	283,463	Aug. 21	1205	338, 339	24	729
Boomer, George B., Tarrytown, N. Y. Steam-radiator	289,965	Dec. 11	736	208	25	1023
Boomer, Oscar F., Brooklyn, N. Y. Evaporating apparatus	271,023	Jan. 23	1480	427	23	303
Boone, Alonzo T., Chicago, Ill., assignor of one-half to R. H. Sanborne. Door-knob alarm	270,199	Jan. 9	439	129	23	97
Boone, Charles A. (See Bound and Boone.)						
Boone, Clara E. (See Boone, Thomas R., assignor.)						
Boone, John L., San Francisco, Cal. System for transmitting power from a central station	279,694	June 19	1346	374	23	2366
Boone, Martin W. (See Bloomfield and Boone.)						
Boone, Robert B. (See Whitaker, David W., assignor.)						
Boone Steel Barb Wire Company. (See Cline, John B., assignor.)						
Boone, Thomas R., assignor, by mesne assignments, to C. E. Boone, Rochester, N. Y. Game apparatus	282,608	Aug. 7	161	49	24	529
Boone, William C., and W. A. Whitfield, Brooklyn, N. Y. Beer-tap	277,872	May 22	1665	454	23	1932
Boone, William C., and W. A. Whitfield, Brooklyn, N. Y. Cut-off for Argand gas-burners	282,260	July 31	2436	670	24	445
Boost, Philip J. (See Gordon and Boost.)						
Booth, Alfred R., San Luis Obispo, Cal. Poison for squirrels, gophers, &c	271,024	Jan. 23	1481	.....	23	303
Booth, Constant W., Brooklyn, N. Y. Lubricator	283,695	Aug. 21	1475	415	24	781
Booth, John, assignor to S. A. Jenks, Lincoln, R. I. Bearing for spindles	272,942	Feb. 27	1733	484	23	764
Booth, John, Lincoln, assignor to Fales & Jenks Machine Company, Pawtucket, and S. A. Jenks, Lincoln, R. I. Spinning-ring	272,941	Feb. 27	1731	484	23	764
Booth, John H., Alton, Ill. Sleeve or collar button	286,770	Oct. 16	1246	337	25	241
Booth, Jonathan L., Rochester, N. Y. Railway-signal	290,842	Dec. 25	1871	517	25	1238
Booth, Joseph N., Prairie du Chien, Wis. Feed-water purifier	275,980	Apr. 17	1434	396	23	1489
Boots, William R. (See Darrow, Charles, assignor.)						
Boppel, Jacob, Newark, N. J. Sewing-machine	281,008	July 10	824	229, 230	24	153
Borchard, Albert J., Chicago, Ill. Press	286,582	Oct. 16	1007	272	25	199
Borchardt, Albert, Weehawken, N. J., assignor to V. H. Rothschild, New York, N. Y. Shirt	280,712	July 3	448	128	24	80
Borchardt, Hugo. (See Parsons and Borchardt.)						
Borchardt, Hugo, Peekskill, assignor to J. W. Frazier, New York, N. Y. Detachable magazine for magazine-guns	273,448	Mar. 6	968	72	23	879
Borchert, Charles, *et al.* (See Dumke, Frank F., assignor.)						
Borden, Edwin, assignor of one-half to J. H. Pitman, Fall River, Mass. Milk-wagon	270,539	Jan. 9	875	254	23	181
Borden, Norman E., Fall River, Mass. Machine for finishing tucked fabrics	287,615	Oct. 30	2344	632, 633	25	454
Bordwell, Joseph, assignor to D. S. Morgan, Brockport, N. Y. Harvester	290,733	Dec. 25	1740	480, 481	25	1215
Boren, John S., Booneville, Miss. Molasses-evaporator	277,906	May 8	874	232	23	1781
Borg, Ole P., Richfield, Utah Ter. Buckle	287,798	Nov. 6	12	4	25	509
Borgesen, Bendix G., Chicago, Ill. Lady's work-table	272,201	Feb. 13	764	211	23	584
Borgfeldt, Nicholas H., New York, N. Y. Screw-propeller	285,002	Sept. 18	1045	293	24	1097
Boring, Frank M., Jamestown, Ohio. Harness attachment	288,614	Nov. 20	1038	286	25	704
Bornholdt, Deulef. (See Arff and Bornholdt.)						
Borodoulin, Nicholas, Kharkov, Russia. Apparatus for measuring the density of liquids	288,402	Nov. 13	783	211	25	651
Borowsky, Bernhard, Stargard, Prussia, Germany. Apparatus for manufacturing varnish	286,528	Oct. 9	932	251	25	180
Borowsky, Bernhard, Stargard, Prussia, Germany. Uniting small pieces of amber into a large block	288,300	Nov. 13	632	173	25	626
Borror, Absalom, Jr., Shadeville, Ohio. Scale-pen for weighing cattle	283,371	Aug. 21	1098	309	24	710
Borsch, John L., assignor of one-half to E. Hazlehurst, Philadelphia, Pa. Spectacles	272,521	Feb. 20	1180	330	23	661
Borst, George, assignor of one-half to F. Will, Rochester, N. Y. Awning-frame	275,573	Apr. 10	923	250	23	1392
Borst, George, and F. Will, Rochester, N. Y. Fire-escape	289,061	Nov. 27	1595	442	25	809
Borthwick, A. E. (See Bedbury, George W., assignor.)						
Borton, Stockton, Philadelphia, Pa., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Manufacture of welted or hemmed goods of knit fabrics	271,190	Jan. 23	1686	467	23	336
Borton, Stockton, Philadelphia, Pa., and C. H. Willcox, assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing and trimming machine	275,981	Apr. 17	1435	396, 397	23	1489
Bosch, Charles G., Davenport, Iowa. Apparatus for malting	277,107	May 8	753	198	23	1760
Boschert, Rufus E., Syracuse, N. Y. Power-press	279,695	June 19	1348	375	23	2367
Bossard, Joseph H. (See Lyon and Bossard.)						
Bossidy, Patrick, Lee, Mass. Rein-rack	277,668	May 15	1422	384	23	1882
Boston Electric Company. (See Crockett, Charles H., assignor.)						
Boston Water Purifier Company. (See Haynes, Edgar K., assignor.)						
Bostrom, Ernst A., Newnan, Ga. Leveling-instrument	290,713	July 3	449	128	24	80
Bostwick, Seymour A., assignor of one-half to F. A. Magee, Chelsea, Mass. Pipe-wrench	271,595	Feb. 6	12	3	23	442
Bosworth, Charles B. (See Brown and Bosworth.)						
Bosworth, Charles B. (See Swan and Bosworth.)						
Bosworth, Charles B., and F. A. Swan, Boston, Mass. Arc-lamp cut-out	278,679	June 5	5	2	23	2125
Bosworth, Charles F., Milford, Conn. Machine for winding thread upon spools	270,376	Jan. 9	660	194, 195	23	138
Bosworth, Emory, Cleveland, Ohio. Water-tight joint for tiling, vault-covers, areas, &c	284,170	Sept. 4	14	4	24	907
Boteler, John W., Washington, D. C. Combination game-box	286,583	Oct. 16	1009	272	25	199
Botkin, Jonathan A. (See Davisson, William J., assignor.)						
Botsford, Alban B., Grand Rapids, Mich. Anal speculum	292,950	Aug. 14	566	160	24	608
Botsford, Isaac P., Cromwell, Conn. Truss	288,972	Nov. 27	1484	411	25	790
Botsford, William B., Millport, assignor of one-half to W. B. Thomas, Elmira, N. Y. Door-hanger	288,918	Nov. 20	1413	389	25	770

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bott, Joseph E., Marcus Hook, assignor to J. M. Broomall, Jr., Media, E. L. Clark and E. H. Burr, Philadelphia, Pa. Crucible and means for heating the same	285,214	Sept. 18	1299	365 366	24	1141
Bott, Joseph E., Marcus Hook, assignor to J. M. Broomall, Jr., Media, E. L. Clark and E. H. Burr, Philadelphia, Pa. Gas-generator for furnaces	285,561	Sept. 25	1708	482 483	24	1221
Bötter, Carl, Ober-Ursel, Prussia, assignor to L. Zeyen, Raguhn, Anhalt, Germany. Paper-machine	280,123	June 26	1857	523 524	23	2464
Bottomley, Thomas H., Canac, Mich. Saw-mill dog	277,961	May 22	1789	488	23	1953
Botts, Barnet N., Paso Robles, Cal. Acoustic telephone	286,680	Oct. 16	1135	306	25	221
Bottum & Trescott, *et al.* See Landfear, William R., assignor.)						
Boucher, Amos, Monclova, Ohio. Door-securer	278,862	June 5	261	75	23	2168
Boucher, Amos, Monclova, Ohio. Door-securer	278,863	June 5	262	76	23	2168
Boughton, George A., Chicago, Ill., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Bale-tie tightener	272,943	Feb. 27	1734	484	23	764
Boughton, William, Caledonia, Ohio. Vehicle-spring	273,449	Mar. 6	269	72	23	879
Bouilly, Amédée, Saumur, France. Mechanism for firing ordnance by electricity	289,966	Dec. 11	738	208	25	1023
Boulanger, Emile, St. Louis, Mo. Drum	274,900	Apr. 3	11	3	23	1228
Boult Brothers & Co. (See Baird, Robert, assignor.)						
Boulton, William H., Cleveland, Ohio. Furnace for baking incandescents	284,171	Sept. 4	15	4	24	907
Bound, David T., and C. A. Boone, Shickshinny, Pa. Time-signal	279,696	June 19	1349	375 376	23	2367
Bourbon Copper and Brass Works. (See Bardo and Ford, assignors.)						
Bourgeois, David, assignor of one-half to Kroeschell Brothers, Chicago, Ill. Feed-water heater and precipitator	271,025	Jan. 23	1482	427	23	303
Bourgeois, Edward, assignor to himself and H. Bond, Haverhill, Mass. Heel-burnishing tool	277,207	May 8	875	232	23	1781
Bousfield, Edward T. (See Howard and Bousfield.)						
Bousser, Michael P., Summerfield, Ill. Non-heat-conducting jug	277,447	May 15	1159	311	23	1838
Boutell, William H., Antrim, N. H. Apple-parer	286,380	Oct. 9	756	203 204	25	147
Bovee, David W., Richland Centre, Wis. Hay-tedder	289,382	Dec. 4	13	4	25	889
Bovee, Henry. (See Moore and Bovee.)						
Bowalter, Thomas, and L. D. York, Portsmouth, Ohio. Manufacture of hoes	281,441	July 17	1372	378	24	254
Bowden, Hanson M., Wilmington, N. C. Carriage-top	287,499	Oct. 30	2174	590	25	432
Bowe, Arthur E., *et al.* (See Olson, Peter J., assignor.)						
Bowen, Augustus C., Michigan Bluff, Cal. Amalgamator	371,305	Jan. 30	1824	529	23	369
Bowen, George M., Talbot, Tenn. Attachment for back-straps	277,669	May 15	1423	384	23	1882
Bowen, George W., Fort Wayne, Ind. Horseshoe	285,215	Sept. 18	1300	366	24	1141
Bowen, Hibbard T., assignor of one-half to P. P. Bowles, Philadelphia, Pa. Boring-machine	288,403	Nov. 13	784	212	25	652
Bowen, Horace W., Corning, N. Y. Carpet-stretcher	288,301	Nov. 13	633	173	25	626
Bowen, J. Howard, Philadelphia, Pa., assignor of one-half to A. C. Couch, Boston, Mass. Wrench	273,017	Feb. 27	1819	510	23	780
Bowen, John J., San Francisco, Cal. Saw-plate and inserted saw-tooth	283,197	Aug. 14	868	242	24	661
Bowen, Phillip A., and J. W. Suetterle, Milwaukee, Wis. Broom-support	290,315	Dec. 18	1172	328	25	1109
Bowen, William, Edina, Mo. Grain and seed cleaning mill	272,637	Feb. 20	1333	374	23	688
Bowen, William H., Lincoln, R. I. Lubricator	270,626	Jan. 16	984	284	23	209
Bowen, William H., Oskaloosa, Iowa. Mop-holder	285,003	Sept. 18	1046	293	24	1097
Bowen, William J., Norwalk, assignor to himself, T. T. Keckeler, Cincinnati, Ohio, and Z. C. Thwing, Marshall, Mich. Mechanical telephone	285,004	Sept. 18	1047	293	24	1098
Bowen, William J., Norwalk, assignor to himself, T. T. Keckeler, Cincinnati, Ohio, and Z. C. Thwing, Marshall, Mich. Acoustic and electric insulator	286,681	Oct. 16	1136	306	25	222
Bowen, William J., Norwalk, assignor to himself, T. T. Keckeler, Cincinnati, Ohio, and Z. C. Thwing, Marshall, Mich. Polarized electric bell	288,202	Nov. 13	512	142	25	605
Bower, Anthony S. (See Barff and Bower.)						
Bower, Anthony S. (See Bower, George and A. S.)						
Bower, George. (See Barff and Bower.)						
Bower, George, St. Neots, county of Huntingdon, England. Depositing metals upon the surfaces of iron and steel coated with magnetic oxide	270,004	Jan. 2	212	.....	23	44
Bower, George and A. S., St. Neots, county of Huntingdon, England. Furnace for effecting the protection of iron and steel surfaces	270,005	Jan. 2	212	61, 62	23	44
Bower, Henry, Philadelphia, Pa. Packing bran, &c	282,045	July 31	2151	590	24	398
Bower, Henry, Philadelphia, Pa. Process of and apparatus for packing bran	282,046	July 31	2152	590 591	24	398
Bower, Isaac G., assignor to L. B. Myers, Fremont, Ohio. Thill-coupling	271,191	Jan. 23	1687	487	23	337
Bower, Isaac G., and L. B. Myers, Fremont, Ohio; said Bower assignor of one-third to said Myers. Toy catapult	271,568	Jan. 30	2166	624	23	429
Bower, James, assignor of one-half to H. A. Wright, Forest City, Ill. Thrashing-machine	284,600	Sept. 11	539	152 153	24	1002
Bower, John, Goode's Crossing, Va. Horse hay-rake	284,942	Sept. 11	960	269	24	1075
Bowers, Alfred H., assignor to I. Newman, New Haven, Conn. Corset	290,843	Dec. 25	1874	517	25	1238
Bowers, Cassimer D. C., Ridgway, Pa. Fastening for bed-slats	277,541	May 15	1272	341	23	1857
Bowers, George W., assignor of one-half to C. E. Nickerson, Somerville, Mass. Necktie-fastener	279,697	June 19	1350	376	23	2367
Bowers, Henry C. (See Bowers, Warren N., assignor.)						
Bowers, Henry C. and W. N., New Haven, Ind. Log-turning attachment for saw-mills	280,124	June 26	1859	524	23	2464
Bowers, Riley, Indianapolis, Ind. Veneer-dish machine	269,822	Jan. 2	2	1	23	3
Bowers, Warren N. (See Bowers, Henry C. and W. N.)						
Bowers, Warren N., Jefferson, assignor of one-half to H. C. Bowers, New Haven, Ind. Gate	287,361	Oct. 23	2000	545	25	382
Bowers, William B., Falls City, Nebr. Band-cutter	274,707	Mar. 27	1889	526	23	1183
Bowes, Frederick K. (See Scharnweber, William, assignor.)						
Bowes, John, Halifax, Nova Scotia, Canada. Ice apparatus	278,085	May 22	1916	525	23	1975
Bowes, John G. (See Jamieson, James, assignor.)						
Bowes, Thomas H., Milwaukee, Wis. Device for straightening sheets delivered from the fly of a printing-press	276,221	Apr. 24	1733	480	23	1547
Bowie, Orin R., Portland, assignor of one-half to E. Hersey, Deering, and W. K. Rhodes, Portland, Me. Fire-escape	281,661	July 24	1661	453	24	308
Bowker, James J., La Otto, Ind. Head-rest	270,377	Jan. 9	664	195	23	139
Bowker, James J., La Otto, Ind. Folding chair	271,778	Feb. 6	233	65	23	481
Bowker, James J., La Otto, Ind. Invalid-bed	277,208	May 8	876	232	23	1782
Bowker, William. (See Williams, Robert, assignor.)						
Bowker, William. (See Williams and Bowker.)						
Bowker, William, Somerville, assignor, by mesne assignments, to himself and R. Williams, Boston, Mass. Cleansing saws	279,698	June 19	1351	376	23	2367

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bowker, William, Somerville, assignor, by mesne assignments, to himself and R. Williams, Boston, Mass. Machine for sawing hoops from poles	286,173	Oct. 9	482	133, 134	25	100
Bowles, Philemon P. (See Bowen, Hibbard T., assignor.)						
Bowles, Thomas H., Atlanta, Ga. Traveling sign for street-cars	288,615	Nov. 20	1039	286	25	704
Bowling, Benjamin S., Marcellus, Mich. Cuspidor	284,601	Sept. 11	541	153	24	1002
Bowling, John P., assignor of one-half to E. Bryan, Guthrie, Ky. Shingle-machine	272,638	Feb. 20	1334	374	23	688
Bowling, John P., assignor of one-half to E. Bryan, Guthrie, Ky. Shingle-machine	272,639	Feb. 20	1335	375	23	689
Bowlus, Charles D., Ohio, Ill. Windmill	274,261	Mar. 20	1308	360	23	1075
Bowman, Alexander. (See Farrar and Bowman.)						
Bowman, Charles F., New Haven, Conn. Lubricator	279,699	June 19	1352	376	23	2368
Bowman, Charles M., Lebanon, Pa. Electric conductor for fire-hose	290,844	Dec. 25	1875	517, 518	25	1238
Bowman, Edmund Q., Philadelphia, Pa. Broom	273,941	Mar. 13	904	247	23	906
Bowman, Edward. (See Maranville, Egbert L., assignor.)						
Bowman, Frank, Brooklyn, N. Y. Back for books	281,657	July 17	1651	450	24	300
Bowman, Frank, New York, N. Y. Blank or composition book	286,111	Oct. 2	409	112	25	75
Bowman, John S., Detriot, Mich. Fire-escape	278,768	June 5	113	32	23	2143
Bowman, John W., Huntington, assignor to himself and E. A. Collins, Huntington County, Ind. Ice-tongs	289,749	Dec. 4	475	134	25	969
Bowman, William, and E. Hunschor, Cleveland, Ohio. Carpet-cleaning apparatus	271,406	Jan. 30	1962	567	23	394
Bowser, John, Lancaster, Ohio. Carriage-body hanger	282,436	July 31	2670	732	24	486
Bowsky, Leopold, New York, N. Y. Plumber's charcoal-furnace	281,009	July 10	825	230	24	153
Bowyer, William A., and J. E. Elliott, Cleveland, Ohio. Stove-pipe shelf	283,959	Aug. 28	1803	510	24	851
Box, Alfred, Philadelphia, Pa. Belt-tightener	283,856	Aug. 28	1675	473	24	827
Box, Alfred, Philadelphia. Pa. Radial drilling-machine	283,857	Aug. 28	1676	473	24	827
Box, William W., Crayford, county of Kent, assignor to H. Greene, London, England. Caster	275,126	Apr. 3	327	91	23	1282
Boyce, Charles M., Stoneham, Mass. Vise	286,995	Oct. 23	1537	423	25	296
Boyce, Edmond C., Cincinnati, Ohio. Paving material for street-pavements	274,096	Mar. 13	1067	299	23	1028
Boyd, Arthur A. (See Hayden and Boyd.)						
Boyd, George. (See Van Zandt, Robert S., assignor.)						
Boyd, Henry E., McKeesport, Pa. Tube-coupling	283,960	Aug. 28	1804	511	24	852
Boyd, Hugh, *et al.* (See Engel, George, assignor.)						
Boyd, James. (See Hammill, Joshua M., assignor.)						
Boyd, James, St. Paul, Minn. Hoisting-machine	271,681	Feb. 6	113	31	23	459
Boyd, John and T. A., Glasgow, county of Lanark, Scotland. Machine for winding yarn or thread	276,758	May 1	300	76	23	1677
Boyd, John M., Oakfield, Wis. Wind-wheel	285,960	Oct. 2	230	65	25	44
Boyd, Thomas A. (See Boyd, John and T. A.)						
Boyd, William, Galveston, Tex. Wheeled vehicle	279,529	June 19	1157	320	23	2334
Boyd, William H., Louisiana, Mo. Netting	287,616	Oct. 30	2346	633	25	455
Boyden, George A., assignor of one-half to C. B. Mann, Baltimore, Md. Fluid-pressure brake	280,285	June 26	2048	576	23	2497
Boyden, George E. (See Boyden, William H., assignor.)						
Boyden, William H., assignor of one-half to G. E. Boyden, Providence, R. I. Twine-holder	285,727	Sept. 25	1918	544	24	1259
Boydston, David S., Volcano, Cal. Camera-shutter	272,117	Feb. 13	670	182	23	568
Boyels, Joseph E., *et al.* (See Morgan, Albert H., assignor.)						
Boyer, Desire, Terre Bonne Parish, La. Baling-press	286,771	Oct. 16	1246	337	25	241
Boyer, Jerome L., Columbia, Pa. Cinder-car	280,903	July 10	695	195, 196	24	129
Boyer, Jerome L., Columbia, Pa. Hoisting apparatus for locomotive and portable engines	280,904	July 10	696	196	24	129
Boyer, Joseph, assignor of forty-nine one-hundredths to O. Bradford, St. Louis, Mo., and J. F. Golding, Chicago, Ill. Chipping-machine	277,448	May 15	1159	311	23	1838
Boyér, Léon, and J. B. Henry, New Orleans, La. Odorless excavating apparatus	277,209	May 8	877	233	23	1782
Boyer, Louis W. (See Fraser, Edwin J., assignor.)						
Boyer, Louis W., *et al.* (See Yates, Henry G., assignor.)						
Boyington, William W., Highland Park, Ill. Window-frame	286,584	Oct. 16	1009	272, 273	25	200
Boyington, William W., Highland Park, Ill. Sash-cord guide	290,203	Dec. 18	1028	289	25	1085
Boyle, Daniel, *et al.* (See Crawford, John, assignor.)						
Boyle, James E., Brooklyn, N. Y. Flushing water-closets	285,875	Oct. 2	117	35	25	23
Boyle, James E., Brooklyn, N. Y. Float-valve or ball-cock	290,204	Dec. 18	1029	290	25	1085
Boyle, John B., Baltimore, Md. Bell-pull	285,961	Oct. 2	232	65	25	44
Boyle, Thomas F., *et al.* (See Crawford, John, assignor.)						
Boyne, James, Jr. (See Boyne, Thomas A. and J., Jr.)						
Boyne, Thomas A. and J., Jr., Bloomfield, N. J. Paper-machine	287,500	Oct. 30	2176	591	25	422
Boynton, Alfred, and H. W. Peace, Brooklyn, N. Y. Saw	274,708	Mar. 27	1889	527	23	1183
Boynton, Almanzor W., Bridgeport, assignor to H. I. Hoyt, Norwalk, Conn. Base-ball	288,766	Nov. 20	1236	338	25	737
Boynton, Charles B. (See Boynton, Nathaniel A., assignor.)						
Boynton, Charles B., New York, N. Y. Shaking-grate	278,864	June 5	263	76	23	2168
Boynton, Charles B., New York, N. Y. Hot-air furnace	289,967	Dec. 11	739	208	25	1024
Boynton, Charles M., and T. M. Togus, Concord, N. H. Rack for umbrellas and parasols	288,616	Nov. 20	1040	286	25	704
Boynton, Edward S., Bridgeport, Conn. Station-indicator	279,478	June 12	1089	301	23	2315
Boynton, Edward S., Bridgeport, Conn., assignor to S. J. Gordon, New York, N. Y. Coloring and hardening articles manufactured of clay	287,799	Nov. 6	13	.....	25	509
Boynton, Leander W., Hartford, Conn. Spring fabric	284,717	Sept. 11	692	194	24	1027
Boynton, Nathaniel A., assignor to C. B. Boynton, New York, N. Y. Damper for furnace or stove pipes	279,530	June 19	1157	320, 321	23	2334
Boynton, Sumner H., Rockland, Me. Cover or blanket for animals	284,803	Sept. 11	796	222	24	1045
Boysen, William F., Buffalo, N. Y. Pulley	281,828	July 24	1884	514	24	347
Brabson, Thomas, Newark, N. J. Bridle-bit	274,709	Mar. 27	1890	527	23	1183
Brabson, Thomas, Newark, N. J. Hame-tip	282,261	July 31	2437	670	24	445
Brach, Isidor, Philadelphia, Pa. Making cigars	278,769	June 5	114	.....	23	2143
Brackebusch, Hans, Berlin, Germany. Deodorizing solutions of colophony in heavy hydrocarbons	275,565	Apr. 10	914	.....	23	1390
Bracken, Edson L., Dawson, Ill. Knotting mechanism for grain-binders	270,378	Jan. 9	605	195	23	139
Bracken, Edson L., Dawson, Ill. Plow-clevis	285,962	Oct. 2	233	65	25	44
Brackenridge, Arthur M. (See Strack, Charles F., assignor.)						
Brackett, Cyrus F., Princeton, N. J. Electro-magnetic dynamometer	287,800	Nov. 6	13	4	25	509
Bracking, Frank B., Cincinnati, Ohio. Button and glove hook	289,213	Nov. 27	1777	492	25	842
Braddock, Warren L., Boston, Mass. Garment-supporter	278,493	May 29	2465	672	23	2079
Bradeen, Joshua E. L., South Berwick, Me. Machine for cutting and punching metal	283,198	Aug. 14	868	242	24	661
Bradfield, Thomas. (See Hughes, Bennington R., assignor.)						
Bradford, Addison, Brooklyn, N. Y. Lubricator	280,562	July 3	270	74	24	49

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bradford, Allen, Dalles, Oreg. Combined agricultural machine	277,962	May 22	1790	488 489	23	1953
Bradford, Charles K., Lynnfield, Mass. Apparatus for cementing the channels of boot or shoe soles	278,066	May 22	1917	526	23	1976
Bradford, Charles W., assignor to himself and A. C. Burgess, Belfast, Me. Bag-fastener	277,210	May 8	878	233	23	1782
Bradford, Charles W., Belfast, assignor to himself and C. E. Lane, Brooks, Me. Bag-fastener	287,755	Oct. 30	2525	680	25	489
Bradford, Cyrus, Erie, Mich. Washing-machine	277,670	May 15	1424	384	23	1892
Bradford, James N., Bay City, Mich. Nut-lock	271,026	Jan. 23	1483	427	23	304
Bradford, Oliver B., *et al.* (See Clay, Robert J., assignor.)						
Bradford, Oscar, *et al.* (See Boyer, Joseph, assignor.)						
Bradford, Purmort, assignor to Sargent & Co., New Haven, Conn. Table-leaf support	270,006	Jan. 2	214	62	23	44
Bradford, Purmort, assignor to Sargent & Co., New Haven, Conn. Grindstone-hanger	282,262	July 31	2438	670	24	446
Bradford, William, Brockport, N. Y. Bean-harvester	270,381	Jan. 9	668	196	23	140
Bradford, William, Brockport, N. Y. Seed-planter and fertilizer-distributer	276,759	May 1	301	77	23	1677
Bradley, Byron C., assignor to Furst & Bradley Manufacturing Company, Chicago, Ill. Seeding-machine	270,627	Jan. 16	984	284 285	23	209
Bradley, Byron C., assignor to Furst & Bradley Manufacturing Company, Chicago, Ill. Skim plow or colter	270,628	Jan. 16	989	286	23	210
Bradley, Byron C., assignor to Furst & Bradley Manufacturing Company, Chicago, Ill. Cultivator	270,629	Jan. 16	990	286 287	23	210
Bradley, Byron C., assignor to Furst & Bradley Manufacturing Company, Chicago, Ill. Combined plow standard and support	270,630	Jan. 16	993	287	23	211
Bradley, Byron C., assignor to Furst & Bradley Manufacturing Company, Chicago, Ill. Tongueless cultivator	274,555	Mar. 27	1708	474 475	23	1150
Bradley, Byron C., assignor to Furst & Bradley Manufacturing Company, Chicago, Ill. Landside for plows	283,067	Aug. 14	707	199	24	633
Bradley, Byron C., assignor to Furst & Bradley Manufacturing Company, Chicago, Ill. Caster-colter	285,790	Oct. 2	12	4	25	4
Bradley, Charles E. (See Folmer and Bradley.)						
Bradley, Charles S., assignor to Edison Electric Light Company, New York, N. Y. Electrical measuring apparatus	280,563	July 3	271	74	24	49
Bradley, Charles S., assignor to Edison Electric Light Company, New York, N. Y. Electrical testing	287,501	Oct. 30	2177	591	25	423
Bradley & Co., C. F. (See Hackstadt, George W., assignor.)						
Bradley, Daniel R., New York, N. Y. Stand for bottles and flasks	288,617	Nov. 20	1041	287	25	704
Bradley, Henry C. (See Seymour, William S., assignor.)						
Bradley, Henry C., Camden Point, Mo. Car-coupling	279,321	June 12	884	245	23	2283
Bradley & Hubbard Manufacturing Company. (See Evarts, Charles A., assignor.)						
Bradley & Hubbard Manufacturing Company. (See Evarts, John A., assignor.)						
Bradley & Hubbard Manufacturing Company. (See Hendryx, Andrew B., assignor.)						
Bradley, Jeremy, assignor to himself and L. M. Stevens, Sparta, Wis. Check-rower for corn-planters	280,714	July 3	449	129	24	80
Bradley, John, North Chelmsford, Mass. Thread-guide mechanism for knitting-machines	270,276	Jan. 9	530	155	23	114
Bradley, John B., Vanceburg, Ky. Saw-holding device	288,767	Nov. 20	1236	339	25	737
Bradley, John B., Vanceburg, Ky. Saw-guide	288,768	Nov. 20	1237	339	25	737
Bradley, John W. (See Belknap and Bradley.)						
Bradley, John W., Stratford, assignor of one-half to Belknap Manufacturing Company, Bridgeport, Conn. Valve mechanism	280,011	June 26	1727	484	23	2440
Bradley, Milton, Springfield, Mass. Label-cutter	272,902	Feb. 13	765	211 212	23	584
Bradley, William A., Oshkosh, Wis. Shingle-machine	271,407	Jan. 30	1962	567	23	394
Bradley, William E. (See Allen and Bradley.)						
Bradshaw, Edwin, assignor of one-half to J. A. Carlaw, Toronto, Ontario, Canada. Sash-balance	285,216	Sept. 18	1301	366	24	1141
Bradshaw, John A. (See Ring and Bradshaw.)						
Bradshaw, William J., Cleveland, Ohio. Flue-cleaner	272,640	Feb. 20	1336	375	23	689
Bradshaw, William J., and W. W. Cowley, Cleveland, Ohio. Device for feeding air to furnaces	275,574	Apr. 10	924	250	23	1392
Bradt, William D., Jackson, Mich., assignor to Eagle Lock Company, Terryville, Conn. Router-bit	281,442	July 17	1373	370	24	254
Bradwell, Thomas, and S. K. White, Chicago, Ill. Stereotyping outfit	288,203	Nov. 13	512	142	25	606
Brady, Charles N., and J. E. Ratcliffe, Wellsburg, W. Va. Caster	290,967	Dec. 25	2041	561	25	1265
Brady, Christian H., Chicago, Ill. Metallic bush for bung-holes	280,343	July 3	6	2	24	4
Brady, Christian H., Chicago, Ill. Bushing for faucets	280,344	July 3	7	3	24	4
Brady, Edwin L., New York, N. Y. Smoke-consuming furnace for locomotives	271,027	Jan. 23	1483	427	23	304
Brady, Gilbert A., Chicago, Ill. Clamp for sewing-machine attachments	277,108	May 8	756	199	23	1761
Brady, Gilbert A., Chicago, Ill. Tension for sewing-machines	277,449	May 15	1161	312	23	1939
Brady, Gilbert A., Chicago, Ill. Sewing-machine shuttle	277,873	May 22	1667	455	23	1932
Brady, James, Brooklyn, N. Y. Paper-file	284,370	Sept. 4	256	71	24	948
Brady, Patrick, Newark, N. J. Process of and apparatus for preserving and venting beer	281,963	July 24	2052	562	24	376
Brady, Thomas. (See Gregg and Briody, assignors.)						
Brady, Thomas F., Philadelphia, Pa. Nursery towel-rack	274,457	Mar. 27	1570	429	23	1127
Braffett, Volney M., Indianapolis, Ind. Thill-coupling clip	282,951	Aug. 14	567	160	24	608
Bragdon, Melville C., Newton Highlands, Mass. Signal apparatus for railways	290,388	Dec. 18	1262	354 355	25	1125
Bragdon, Nathaniel, Danvers, Mass. Device for lighting and extinguishing lanterns	273,342	Mar. 6	133	37	23	856
Bragg, Everett B., New York, N. Y. Apparatus for treating leather-scrap	288,001	Nov. 6	272	76	25	554
Bragg, Isaac W., Kidder, Mo. Governor cut-off-valve gear	277,983	May 22	1794	489	23	1953
Bragg, Leonard G., Kalamazoo, Mich. Tree-digger	275,575	Apr. 10	924	251	23	1392
Brah, William, Milwaukee, Wis. Engraver's tool	271,306	Jan. 30	1825	530	23	370
Brah, William, Milwaukee, Wis. Preparing blocks of wood for engraving	274,556	Mar. 27	1710	.....	23	1150
Brahn, James, Jersey City, N. J. Switch-stand	273,450	Mar. 6	270	72	23	879
Brain, Thomas. (See Webley and Brain.)						
Brainard, Adelbert M., Chicago, Ill. Hydrocarbon-gas stove	275,127	Apr. 3	327	91	23	1283
Brainard, Amos H., Hyde Park, Mass. Gear-cutting machine	273,451	Mar. 6	271	73	23	879
Brainard, Curtis B., Joliet, Ill. Wire-pointing machine	279,124	June 12	654	179	23	2245
Brainard, Curtis B., Joliet, Ill. Barbed wire for fences	287,091	Oct. 23	1663	456	25	321
Brainard, Curtis B., Cuyahoga Falls, assignor to himself and J. Crowell, Jr., Glenville, Ohio. Device for making fence-barbs	283,561	Aug. 21	1319	368 369	24	750
Brainard, Joseph W., Kent, Ohio. Machine for making blind-slats	283,372	Aug. 21	1098	309	24	710
Brainard, Marvin N., assignor of one-half to R. J. Allyn, Hartford, Conn. Fire-escape	278,865	June 5	264	76	23	2168
Brainard, Morris F., Brooklyn, N. Y. Dumping-scow	289,498	Dec. 4	162	44	25	914
Brainerd, Charles A., Chicago, Ill. Electrical device for protecting wire fences	279,322	June 12	885	246	23	2283

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Brainerd, Frank W., Freeport, Ill. Wire-barbing machine	277,451	May 15	1164	313	23	1839
Brainerd, Frank W., Freeport, Ill. Creaming-can	284,172	Sept. 4	16	5	24	907
Brainerd, Henry C., Cleveland, Ohio. Preparing rubber plates or sheets for graining	287,617	Oct. 30	2347	.....	25	455
Brake, Peter, Toronto, Ontario, assignor of one-half to J. C. Steele, Vaughn township, Canada. Cooking range and stove	282,263	July 31	2439	671	24	446
Brakke, Andrew T., *et al.* (See Jensen, Mathias, assignor.)						
Bramer, Frank, Brooklyn, N. Y. Mowing-machine	277,984	May 22	1795	489 / 490	23	1954
Bramhall, Esther A. (See Fuller, Hiram E., assignor.)						
Bramhall, J. H., *et al.* (See Van Sickle, George W., assignor.)						
Bramhall, Martin L., La Porte, Ind. Weather-strip	284,602	Sept. 11	542	153 / 154	24	1002
Bramwell, William, Toledo, Ohio. Cutter-head for boring-machines	276,760	May 1	303	77	23	1678
Branan, Thomas L. (See Merrill, George P., assignor.)						
Branch, Isaac, Adairsville, Ga. Mowing and reaping machine	279,077	June 5	569	156	23	2221
Brand, Frederick J., Milldale, Conn. Machine for forming wire-work	274,557	Mar. 27	1711	475	23	1150
Brandeis, Leopold. (See Cassin, William, assignor.)						
Brandeis, Leopold, Brooklyn, N. Y. Faucet	288,769	Nov. 20	1238	339	25	737
Brandenburg, Isaac S., Peoria, Ill. Milk-cooler	290,519	Dec. 18	1455	402	25	1158
Brandenburg, Mary. (See Stearns, Sarah B., assignor.)						
Brandenburger, Andrew, *et al.* (See Barditzky, Hermann, assignor.)						
Brandenburger, Andrew, W. Tirre, and H. Barditzky, St. Louis, Mo. Mining-machine	283,858	Aug. 28	1678	474	24	828
Brandl, Gotthard, assignor of two-thirds to H. Sarre and H. Beyerhaus, Berlin, Germany. Horseshoe	271,307	Jan. 30	1826	530	23	370
Brandl, Joseph, New York, N. Y. Steam-generator	288,688	Nov. 20	1136	313	25	720
Brandon, James, New York, N. Y. Metallic packing for pistons	283,068	Aug. 14	708	199	24	633
Brandon, John H., Chicago, Ill. Lightning-rod	270,379	Jan. 9	666	195	23	140
Brandt, Jacob, San Francisco, Cal. Machine for cutting out cigar-wrappers	277,452	May 15	1165	313	23	1839
Brandt, Jacob S. (See Rumbaugh and Brandt.)						
Brandt, John J., De Witt Centre, N. Y. Wrench	283,696	Aug. 21	1476	416	24	781
Brandt, Thomas J., Dundee, Mich. Heel-stiffener for boots and shoes	283,859	Aug. 28	1680	474	24	828
Brandy, James, Lawrence, Mass. Machine for manufacturing felt boots, shoes, or stockings	277,450	May 15	1161	312	23	1839
Branham, Alvin J., Honstonia, Mo. Velocipede	283,697	Aug. 21	1476	416	24	781
Brannen, James, Philadelphia, Pa. Extension-chandelier	285,963	Oct. 2	233	66	25	45
Brannen, James, Philadelphia, Pa. Shade-support	285,964	Oct. 2	234	66	25	45
Brannian, James T., Randolph, Iowa. Combined hay rake and loader	287,903	Nov. 6	142	42	25	533
Brannon, Patrick P., assignor, by mesne assignments, to Auerbach, Altschul & Brannon, Santa Ana, San Salvador, Central America. Coffee separator	271,779	Feb. 6	234	65	23	481
Branson, James L., Philadelphia, Pa. Knitting-machine. (Reissue)	10,271	Jan. 16	1296	374	23	267
Branson, Thomas B. (See Fink and Branson.)						
Brant, John D., Jr., New York, N. Y., assignor of one-half to A. V. Sargeant, Newark, N. J. Necktie-fastener	282,952	Aug. 14	567	160	24	608
Brantley, Henry T., Jamison, Ala. Churn	289,968	Dec. 11	740	209	25	1024
Brasher, Thomas M., Brooklyn, N. Y. Manipulating and firing marine torpedoes	287,221	Oct. 23	1828	501	25	351
Brastow, Louis C., Ashley, and G. W. Twining, East Mauch Chunk, Pa. Railway-rail curving and straightening machine	275,881	Apr. 17	1328	365	23	1469
Bratton, Isaac, Wilmington, Del. Suction-box for paper-making machines	280,564	July 3	273	75	24	49
Bratsch, Philip P. (See Beuttel and Bratsch.)						
Brauchler, Franklin C., Canton, Ohio. Nut-lock	280,125	June 26	1660	524	23	2464
Brauer, Justus, Philadelphia, Pa. Rest for ice-pitchers	290,520	Dec. 18	1456	402	25	1158
Brauer, Louis, Philadelphia, Pa. Calendar	270,730	Jan. 16	1123	322	23	235
Braun, John, Philadelphia, Pa. Pawl-and-ratchet mechanism	281,662	July 24	1662	453	24	308
Braun, Otto, and O. Liebreich, Berlin, Germany. Treating wool-oil to produce lanolin	271,192	Jan. 23	1687	.....	23	337
Braunfeld, Henry E., Philadelphia, Pa. Fire-escape	273,807	Mar. 13	734	199	23	968
Braunfeld, Henry E., Philadelphia, Pa. Fire-escape	283,961	Aug. 28	1805	511	24	852
Braunwalder, Jacob, Milwaukee, Wis. Valve-gear for steam-engines	286,585	Oct. 16	1011	273	25	200
Bray, John, Washington, D. C., assignor of one-half to C. H. Longley, Hartford, Conn. Paper fabric or matting	280,286	June 26	2052	.....	23	2498
Bray, Mellen, Newton, Mass. Manufacture of ring-sockets	280,786	July 10	567	158	24	107
Bray, Mellen, Newton, Mass. Manufacture of reed-plates	280,787	July 10	568	159	24	107
Bray, Mellen, Newton, Mass. Button	280,788	July 10	569	159	24	107
Bray, Mellen, Newton, and G. W. McClintock, Boston, Mass.; said McClintock assignor to said Bray. Reed for musical instruments	280,789	July 10	570	159	24	107
Bray, Mellen N., Boston, Mass. Lacing-stud	273,706	Mar. 13	600	161	23	944
Bray, Mellen N., Boston, Mass. Lacing-hook	273,707	Mar. 13	601	161	23	944
Bray, Morris P., New Haven, Conn. Corset	275,982	Apr. 17	1440	397	23	1490
Bray, Morris P., New Haven, Conn. Corset	279,323	June 12	886	246	23	2283
Bray, Morris P., New Haven, Conn. Corset	280,565	July 3	274	75	24	49
Bray, Morris P., New Haven, Conn. Corset	289,969	Dec. 11	741	209	25	1024
Bray, Morris P., New Haven, assignor to I. W. Birdseye, Bridgeport, Conn. Corset-spring	270,380	Jan. 9	667	196	23	140
Bray, Morris P., New Haven, assignor of one-half to Wallace & Sons, Ansonia, Conn. Corset-clasp	277,671	May 15	1425	384	23	1882
Bray, Morris P., assignor to I. Newman & Co., New Haven, Conn. Corset	271,760	Feb. 6	235	66	23	481
Bray, Thomas J., assignor to Oliver Brothers & Phillips, Pittsburg, Pa. Mechanism for making wagon-box straps	270,176	Jan. 2	409	119	23	83
Bray, Thomas J., assignor to Oliver Brothers & Phillips, Pittsburg, Pa. Drive-screw	289,333	Nov. 27	1921	534	25	871
Bray, Stacy B. and W., Lambertville, N. J. Horse-detacher	284,804	Sept. 11	797	222	24	1045
Bray, William C., Newton, Mass. Machine for setting lacing-studs	277,985	May 22	1797	490 / 491	23	1954
Bray, William H., assignor of one-half to S. I. Crafts, Boston, Mass. Device for packing glass gage-tubes	276,154	Apr. 24	1654	456	23	1534
Bray, Wilson. (See Bray, Stacy B. and W.)						
Brayton, A. P. (See Stirk, William E., assignor.)						
Brayton, George B., assignor to Brayton Petroleum Engine Company, Boston, Mass. Air-pump valve	269,914	Jan. 2	107	32	23	22
Brayton, George B., assignor to Brayton Petroleum Engine Company, Boston, Mass. Regulating the supply of oil to vapor-engines	270,927	Jan. 23	1361	392	23	284
Brayton Petroleum Engine Company. (See Brayton, George B., assignor.)						
Brazeau, Melchior, Montreal, Quebec, Canada. Picker	272,118	Feb. 13	670	183	23	568
Brazelle, Benjamin, St. Louis, Mo. Steam-engine	271,781	Feb. 6	236	66	23	481
Brazelle, Benjamin, St. Louis, Mo. Direct-acting engine	284,173	Sept. 4	17	5	24	907
Bready, Charles W. (See Dutrow, David E., assignor.)						
Brecht, Theodore C. (See Hemje and Brecht.)						
Breckenridge, Henry W., assignor to J. A. Miller, trustee, Providence, R. I. Telephone-switch	278,494	May 29	2466	672	23	2079

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Breckenridge, Henry W., assignor, by mesne assignments, to Rhode Island Telephone and Electric Company, Providence, R. I. Electric switch-board	290,845	Dec. 25	1877	518	25	1239
Breckheimer, Matthias, Madison, Wis. Ice-harvesting and ice-loading machine	285,791	Oct. 2	13	4	25	5
Brecknell, Richard D. (See Goff, Tilmeon G., assignor.)						
Bredehorst, Friedrich, Bremen, Germany. Incidence-window	276,761	May 1	304	78	23	1678
Bredt, Otto, Barmen, Germany. Manufacture of red coloring-matter	289,613	Dec. 4	300	.....	25	940
Breed, Richard E., Pittsburg, Pa. Machine for making hoes	280,287	June 26	2052	576 577	23	2498
Breen, Peter, assignor of one-half to L. M. Hosea, Cincinnati, Ohio. Lubricator for loose pulleys	271,193	Jan. 23	1688	487	23	337
Breen, Thomas, Knowlton, Pa. Railway-tie	272,850	Feb. 27	1619	452	23	746
Breen, Thomas, Knowlton, Pa. Railway-signal	272,851	Feb. 27	1620	453	23	746
Breen, Thomas, Knowlton, Pa. Combined letter sheet and envelope	272,852	Feb. 27	1621	453	23	746
Breen, Thomas, Knowlton, Pa. Curtain-fixture	275,351	Apr. 10	635	170	23	1343
Breen, Thomas, Knowlton, Pa. Railway-switch	276,762	May 1	304	79	23	1678
Breen, Thomas, Knowlton, Pa. Telegraph-pole	282,489	Aug. 7	11	3	24	503
Breer, Caroline H. (See Breer, Henry, assignor.)						
Breer, Henry, assignor to C. H. Breer, Syracuse, N. Y. Apparatus for treating animal matter for fertilizers	274,901	Apr. 3	12	3	23	1228
Breer, Henry, assignor to C. H. Breer, Syracuse, N. Y. Apparatus for desiccating animal matter for fertilizers	274,902	Apr. 3	13	4	23	1229
Breer, Henry, assignor to C. H. Breer, Syracuse, N. Y. Apparatus for desiccating animal matter	286,897	Oct. 16	1408	386 387	25	269
Breer, Henry, assignor to C. H. Breer, De Witt, N. Y. Apparatus for desiccating fertilizers	288,919	Nov. 20	1414	390	25	771
Breer, Henry, DeWitt, assignor to C. H. Breer, Syracuse, N. Y. Apparatus for desiccating animal matter for fertilizers	280,700	July 10	572	159	24	107
Breese, Hiram T. (See Shaw, Ira C., assignor.)						
Brehmer, August, Leipsic, Germany. Paper box	285,456	Sept. 25	1590	446 447	24	1198
Brélivet, Joseph, Enosburg Falls, Vt. Candle-mold	280,566	July 3	274	75	24	49
Brendel, Philipp, St. Louis, Mo. Flexible ladder	277,672	May 15	1426	385	23	1383
Breneman, Edward. (See McSherry and Myers, assignors.)						
Brenn, George W., Philadelphia, Pa. Extension-table	290,734	Dec. 25	1742	481	25	1215
Brennan, Charles E., Charlottesville, Va. Automatic fire-extinguisher	270,731	Jan. 16	1124	322	23	235
Brennan & Co., South Western Agricultural Works. (See Weller, Thomas W., assignor.)						
Brennan, Daniel, Jr., Orange, N. J. Movable jaw for stone and ore crushers	281,829	July 24	1885	515	24	347
Brennan, Daniel J. (See Brennan, Thomas W. and D. J.)						
Brennan, James H. (See Brennan, William F., assignor.)						
Brennan, James R., assignor of one-third to L. R. Lancaster and E. H. Fudge, St. Joseph, Mo. Saw-table gage	271,408	Jan. 30	1964	568	23	395
Brennan, James W. (See Rousseau, Necter, assignor.)						
Brennan, James W., and N. Rousseau, Chicago, Ill. Mechanism for preventing induced currents in telephone-lines	287,092	Oct. 23	1663	457	25	321
Brennan, Thomas, *et al.* (See Wolfe, Harvey R., assignor.)						
Brennan, Thomas W. and D. J., Wexford, Iowa. Wheel-cultivator	277,874	May 22	1668	455	23	1932
Brennan, William F., assignor of one-fourth to J. H. Brennan, Providence, R. I. Combined watch-key and cross-bar for watch-chains	274,903	Apr. 3	15	4	23	1229
Brennan, William T., Worcester, Mass. Machine for drawing wire	289,805	Dec. 11	539	150	25	987
Brenner, David H., Grand Rapids, Mich. Weight-motor	277,875	May 22	1669	455	23	1933
Brenner, Jacob, New York, N. Y. Calendar	284,270	Sept. 4	139	39	24	928
Brenner, Max, New York, N. Y. Convertible garment	285,106	Sept. 18	1170	328	24	1118
Brent, Edmund J., Muscatine, Iowa. Window-screen frame	281,964	July 24	2053	562 563	24	376
Brentano, Simon, New York, N. Y. Conduit for telegraph or telephone lines	274,710	Mar. 27	1891	527	23	1183
Brenzinger, Adam, assignor to A. Beck & Co., New York, N. Y. Quilting-machine	289,884	Dec. 11	643	179	25	1005
Bresnahan, Cornelius, assignor of one-half to D. Battle, Detroit, Mich. Vacuum-relief for fire-engine boilers and heaters	277,862	May 15	1646	449	23	1923
Bretney, Edwin V., Louisville, Ky. Harness-saddle	275,576	Apr. 10	925	251	23	1392
Brett, George, assignor to O. R. Peck, Toronto, Ontario, Canada. Pump	273,663	Mar. 6	538	145	23	926
Brett, Thomas, Cleveland, Ohio. Fire-proof safe	286,996	Oct. 23	1538	424	25	296
Brettell, George E., Rochester, N. Y. Iron-planer. (Reissue)	10,410	Nov. 27	1969	547	25	878
Brevoort, Henry L. (See Thomas and Brevoort.)						
Brewer, Adolph F., New York, N. Y. Clothes-line coupling	289,334	Nov. 27	1922	534	25	871
Brewer, Frank L., Bedford, Iowa. Attachment for check-rowers	277,673	May 15	1427	385	23	1883
Brewer, Roland L., assignor to Colts Patent Fire-Arms Manufacturing Company, Hartford, Conn. Breech-loading fire-arm	279,324	June 12	887	247	23	2283
Brewer, Russell, New York, assignor of one-fifth to G. Engels, Brooklyn, N. Y. Car-axle box	285,217	Sept. 18	1301	366	24	1142
Brewster, Edward E., Holly, Mich. Rein-holder	282,609	Aug. 7	162	49	24	529
Brewster, Elias M., Norwich, Conn. Tea-kettle	279,635	June 19	1276	354	23	2355
Brewster, Henry, *et al.* (See Mott, George A., assignor.)						
Brewster, Henry, *et al.* (See Ostmire, William A., assignor.)						
Brewster, Henry, *et al.* (See Stahmer, Herman F., assignor.)						
Brewster, Joseph W. (See Kelly, Dennis, assignor.)						
Brewtnall, Arthur W., Westminster, England. Suspending and circuit-controlling mechanism for electroliers	284,805	Sept. 11	798	223	24	1045
Breyer, Charles A., Philadelphia, Pa. Soap	269,823	Jan. 2	3	.....	23	3
Breyer, Joseph, assignor of one-half to J. Kauffman, Cincinnati, Ohio. Lock	285,382	Sept. 25	1500	422	24	1183
Breyfogle, William L. (See Van Dusen, Charles, assignor.)						
Brick, Samuel R., Stapleton, N. Y. Safety gas-tank for vessels	283,962	Aug. 28	1806	511	24	852
Bricker, David. (See Getty and Bricker.)						
Brickett, John, Danforth, Ill. Check-rower	284,603	Sept. 11	543	154	24	1002
Brickhouse, John B., Clarksville, Tenn. Device for lifting wagon-bodies	287,502	Oct. 30	2178	591	25	423
Bricknell, Augustus L. (See Quatremaine, George W., assignor.)						
Bride, Cotter T., Washington, D. C. Pipe-joint packing	274,434	Mar. 20	1528	420	23	1113
Bridewell, Richard F., San Francisco, Cal. Street-car propulsion	279,325	June 12	890	247	23	2284
Bridge, John, Detroit, Mich. Car-coupling link	275,460	Apr. 10	781	209	23	1368
Bridge, Lewis. (See Gormly and Bridge.)						
Bridgeport Automatic Safety Ladder and Hardware Company. (See Stever, Jeremiah, assignor.)						
Bridgeport Brass Company. (See Reed, Thomas S., assignor.)						
Bridgeport Brass Company. (See Somers, George E., assignor.)						
Bridgeport Brass Company. (See Somers and Stoddard, assignors.)						
Bridges, Charles, San Fernando, Cal. Equalizing apparatus for pumping and other machinery	270,007	Jan. 2	215	62	23	44

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Bridges, Charles, San Fernando, Cal. Ladder	270,008	Jan. 2	216	62	23	44
Bridges, David A., assignor of three-fourths to J. Gage, Vineland, N. J. Bench-plane	271,569	Jan. 30	2167	624	23	430
Bridges, Dennis M., Woodstock, Ill. Gate	273,452	Mar. 6	273	74	23	879
Bridges, John E. (See Bickle and Bridges.)						
Bridges, John R., Philadelphia, Pa. Knitting-machine	270,928	Jan. 23	1362	392, 393	23	284
Bridges, Mary J., assignor to herself and M. E. Gunn, Wimberly Mill, Tex. Combined clothes-washer and churn	273,453	Mar. 6	274	74	23	880
Bridgman, Almon, Berlin, and J. Challoner, Omro, assignors to Yates Manufacturing Company, Berlin, Wis. Wood-polishing machine	285,728	Sept. 25	1919	544, 545	24	1259
Brierly, Fitzroy K., New Brighton, Pa. Coffee-mill	284,271	Sept. 4	140	39	24	928
Brigel, Leo A., Cincinnati, Ohio. Circuit-closer for electric alarms	287,618	Oct. 30	2348	633	25	455
Brigg, William W., Washington, D. C. Auger and gimlet	270,200	Jan. 9	440	129	23	97
Brigg, William W., Washington, D. C. Boring-bit	274,711	Mar. 27	1891	527	23	1183
Brigg, William W., Washington, D. C., assignor of one-half to P. F. Herwig, New Orleans, La. Leather-cutter	273,018	Feb. 27	1820	510	23	780
Brigg, William W., Washington, D. C., assignor of one-half to P. F. Herwig, New Orleans, La. Leather-cutter	273,019	Feb. 27	1821	510	23	780
Briggs, Chester C. (See Briggs, George S., assignor.)						
Briggs & Co, F. H. & D. (See Woodman, Joseph C., assignor.)						
Briggs, George, New Sharon, Iowa. Bee-hive	280,126	June 26	1861	525	23	2464
Briggs, George S., assignor of one-third to C. C. Briggs, Rockford, Ill. Check-rower for planters	288,158	Nov. 6	448	125, 126	25	586
Briggs, J. Smith, Kankakee, Ill. Corn-harvester	286,772	Oct. 16	1247	338	25	241
Briggs, John N., Coeymans, N. Y. Snow-plow	285,383	Sept. 25	1501	422	24	1183
Briggs, Joshua, Peterborough, N. H. Folding stool	272,853	Feb. 27	1621	453, 454	23	747
Briggs, Lucius. (See Darling, James, assignor.)						
Briggs, M. Willett, *et al.* (See Byard, Washington I., assignor.)						
Briggs, Marvin A., assignor of one-half to O. P. Clifton, Pataskala, Ohio. Churn	278,391	May 29	2338	639	23	2057
Briggs, Orlando P., assignor to D. H. Donovan, Chicago, Ill. Barbed fence-wire	272,407	Feb. 20	1039	291	23	637
Briggs, Orlando P., assignor to Thorn Wire Hedge Company, Chicago, Ill. Machine for making barbed wire	281,443	July 17	1375	379, 380	24	255
Briggs, Orlando P., assignor to Thorn Wire Hedge Company, Chicago, Ill. Wire-barbing machine	281,444	July 17	1384	380, 381	24	256
Briggs, Orlando P., assignor to Thorn Wire Hedge Company, Chicago, Ill. Machine for stringing barbs on wires	282,698	Aug. 7	268	77, 78	24	546
Briggs, Oscar E., Binghamton, N. Y. Bracket-seat	272,522	Feb. 20	1181	330	23	661
Briggs, Richard F., Salisbury, Mass. Two-wheeled vehicle	279,531	June 19	1159	321	23	2334
Briggs, Richard H., and J. H. Dongherty, Whistler, Ala. Car-door fastening	281,174	July 10	1026	287	24	188
Briggs, Warren R., Bridgeport, Conn. Tuning-pin for stringed instruments	277,211	May 8	878	233	23	1782
Briggs, William H., and W. Robinson, Chicago, Ill., assignors to Adams & Westlake Manufacturing Company, of Michigan. Lamp	272,203	Feb. 13	767	212	23	584
Brigham, Jonathan W., assignor of one-half to T. A. Hodgkins, Rockford, Ill. Seed-planting machine	290,389	Dec. 18	1265	355	25	1126
Brigham, Lyscom, Orangeville Mills, Mich. Soft-ground horseshoe	285,562	Sept. 25	1710	483	24	1222
Brigham, Lyscom, Orangeville Mills, Mich. Soft-ground horseshoe	285,563	Sept. 25	1711	483	24	1222
Brigham, Waldo B., *et al.* (See Knowlton, Albion, assignor.)						
Brigham, Wilbar F., *et al.* (See Knowlton, Albion, assignor.)						
Bright, Harvey S., Van Alstyne, Tex. Medicinal compound	275,352	Apr. 10	636	.....	23	1343
Bright, Richard A., Jr., Providence, assignor to himself and M. Fish, Valley Falls, R. I. Cigar-machine	279,125	June 12	655	179	23	2245
Brill, George M., Philadelphia, Pa. Car-brake	286,773	Oct. 16	1251	338	25	242
Brillinger, Edwin, York, Pa. Wood-graining machine	288,302	Nov. 13	634	174	25	626
Brillinger, Samuel. (See Beam and Brillinger.)						
Brimer, Jacob B. and W. M., Richland Centre, Wis. Elevator	277,212	May 8	880	234	23	1782
Brimer, William M. (See Brimer, Jacob B. and W. M.)						
Brimhall, Elmore. (See Day, Thomas, assignor.)						
Brinck, Albert, *et al.* (See Stürmer, August, assignor.)						
Brinkerhoff, Alexander W., Upper Sandusky, Ohio. Tobacco-pouch	271,028	Jan. 23	1485	428	23	304
Brinkerhoff, Alexander W., Upper Sandusky, Ohio. Ink-bottle	275,983	Apr. 17	1441	397	23	1490
Brinkerhoff, Alexander W., Upper Sandusky, Ohio. Ointment-injector	277,213	May 8	881	234	23	1783
Brinkerhoff, Alexander W., Upper Sandusky, Ohio. Operating-table	283,199	Aug. 14	869	242, 243	24	661
Brinkerhoff, Alexander W., Upper Sandusky, Ohio. Deflector for railway passenger-cars	286,381	Oct. 9	756	204	25	148
Brinkerhoff, Jacob and W. M., Auburn, N. Y., assignors to Washburn & Moen Manufacturing Company, Worcester, Mass. Erecting wire fences	287,222	Oct. 23	1830	501	25	351
Brinkerhoff, Warren M. (See Brinkerhoff, Jacob and W. M.)						
Brinkerhoff, Warren M., Auburn, N. Y. Lubricating mechanism	282,837	Aug. 7	431	122	24	576
Brinkerhoff, Warren M., Auburn, N. Y. Stay-roller for sliding doors	287,223	Oct. 23	1831	501	25	351
Brinkerhoff, Warren M., Auburn, N. Y. Stay-roller for sliding doors	290,521	Dec. 18	1457	402	25	1158
Brinkhoff, Julius, Pittsburg, Pa. Vegetable slicer and grater	290,390	Dec. 18	1267	356	25	1126
Brintnall, Thomas M., Kansas City, Mo. Blind-stop	274,881	Mar. 27	2100	583	23	1218
Brinton, Caleb, Chicago, Ill. Door-hanger	286,774	Oct. 16	1251	338, 339	25	242
Brinton, Caleb, Chicago, Ill. Door-hanger	289,885	Dec. 11	644	179, 180	25	1006
Brinton, Caleb, Chicago, Ill. Door-hanger	289,886	Dec. 11	646	180	25	1006
Brintzinghoffer, George, Philadelphia, Pa. Brush	290,522	Dec. 18	1458	403	25	1158
Briody, Barnad, Detroit, Mich. Safety-guard for railways	279,700	June 19	1353	377	23	2368
Briody, Edward. (See Gregg and Briody.)						
Brisben, William M., Philadelphia, Pa. Insulating underground electric wires	278,087	May 22	1917	526	23	1976
Brisben, William W., Cleveland, Ohio. Lubricator	281,010	July 10	826	230	24	153
Brislin, David A., St. Louis, Mo. Faucet	286,256	Oct. 9	584	160	25	117
Brislin, John J., assignor to E. S. Lewis, Albany, N. Y. Device for joining the ends of leather belting	272,523	Feb. 20	1182	330	23	661
Brissard, Henri A., Paris, France. Ruling-machine	286,382	Oct. 9	758	204, 205	25	148
Brissett, Henry R., Lowell, and J. Howe, Tyngsborough, Mass.; said Brissett assignor to said Howe. Composition for coating and insulating underground wires	283,200	Aug. 14	870	.....	24	662
Brisson, Exavier, *et al.* (See Savoie, Joseph, assignor.)						
Brisson, Louis, *et al.* (See Savoie, Joseph, assignor.)						
Bristol, Edmund R., Madison, Wis. Car-brake	270,732	Jan. 16	1125	322	23	235
Bristol, Edmund R., Madison, Wis. Car-brake	281,445	July 17	1387	381	24	257
Bristow, Albert W., Boston, Mass. Clothes-line clamp	285,005	Sept. 18	1048	293	24	1098

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Britton, Channing M., *et al.* (See Mott, George A., assignor.)						
Britton, Channing M., *et al.* (See Ostmire, William A., assignor.)						
Britton, Channing M., *et al.* (See Stahmer, Herman F., assignor.)						
Britton, John W., *et al.* (See Mott, George A., assignor.)						
Britton, John W., *et al.* (See Ostmire, William A., assignor.)						
Britton, John W., *et al.* (See Stahmer, Herman F., assignor.)						
Britton, Matthew. (See Wiswall, Alvah, assignor.)						
Broadbeck, Jacob. (See Miller, Jacob D., assignor.)						
Broadbent, Frederick, Providence, R. I. Kink-catcher for spinning-frames	280,567	July 3	275	75	24	50
Brobst, Charles A., Rehrersburg, Pa. Bag-fastener	281,663	July 24	1663	454	24	308
Brobst, Daniel, Portland, Mich. Roofing compound	284,371	Sept. 4	257	.....	24	948
Brock, Alvan D., Washington, D. C. Manufacture of coiled metallic pipes	276,763	May 1	306	79	23	1678
Brock, E. F., *et al.* (See Wood, Edwin A., assignor.)						
Brock, Matthias, Boston, Mass., assignor to McKay and Copeland Lasting Machine Company, Portland, Me. Lasting boots and shoes	264,174	Sept. 4	19	5	24	908
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Lasting-machine	286,898	Oct. 16	1409	387	25	969
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Lasting-machine	288,689	Nov. 20	1137	313	25	720
Brock, William E., Dunellen, N. J., assignor to Arnold & Wendt, New York, N. Y. Window-screen	290,173	Dec. 11	982	277	25	1068
Brock, William H., Corono, assignor of four-tenths to J. W. Alexander, New York, N. Y. Box-nailing machine	285,729	Sept. 25	1921	545	24	1260
Brock, William M., assignor of one-half to W. H. Douty, Shamokin, Pa. Telephone central-office apparatus	282,699	Aug. 7	278	78, 79	24	547
Brockett, Atwater E. (See Wilbur, George W., assignor.)						
Brockner, Washington. (See Randel, Charles D., assignor.)						
Brockner, Washington. (See Randel and Brockner.)						
Brockunier, Charles W., Bridgeport, Ohio, and D. C. Ripley, Pittsburg, Pa. Glass-annealing leer	270,929	Jan. 23	1364	393, 394	23	285
Brockway, Anna, Ingall's Crossing, N. Y. Fruit-bleacher	287,224	Oct. 23	1833	501	25	351
Broderick, John, *et al.* (See Conway, Michael L., assignor.)						
Broderick, Thomas M. (See Gilbert, George S., assignor.)						
Broderick, Thomas, Pittsburg, Pa. Hame-tug	272,641	Feb. 20	1337	375	23	689
Broderick, Thomas, Pittsburg, Pa. Thill-lug	290,523	Dec. 18	1459	403	25	1158
Brokaw, Norman H., Marinette, Wis. Block-presser for wood-paper-pulp machines	271,409	Jan. 30	1965	568	23	395
Brokaw, Norman H., Marinette, Wis. Block-presser for wood-paper-pulp machines. (Reissue)	10,429	Dec. 25	2103	580	25	1275
Brolly, Hugh, Albany, N. Y. Tailor's measure	277,453	May 15	1166	313, 314	23	1840
Bromley, James M., assignor to W. E. Smith, Plattsburg, N. Y. Two-wheeled vehicle	281,337	July 17	1247	346	24	233
Brong, James E., and E. A. Carter, Canisteo, N. Y. Lumber for walls	285,218	Sept. 18	1302	367	24	1142
Brönner, Julius, Frankfort-on-the-Main, Germany. Purifying impure anthrachinone and alizarine	275,128	Apr. 3	329	91	23	1283
Bronnum, Lars F., New York, N. Y. Knockdown or portable building	271,308	Jan. 30	1828	5 0	23	370
Bronson, Edgar B., San Antonio, Tex. Gun-case	290,205	Dec. 18	1030	290	25	1085
Bronson, James M., Chicago, Ill. Removable book-cover	290,846	Dec. 25	1878	518, 519	25	1239
Bronson, John G., Chicago, Ill. Window-ventilator	270,733	Jan. 16	1125	322	23	235
Bronson, Thomas J., and A. Armstrong, Jacksonville, Ill. Railway sleeper and chair	277,000	May 8	612	160	23	1737
Bronson, Thomas J., and A. Armstrong, Jacksonville, Ill. Railway-tie	289,806	Dec. 11	540	151	25	987
Brook, Thomas J. (See Sayles and Brook.)						
Brooke, Aries P., Woodbury, N. J., assignor to W. Brookfield, Brooklyn, N. Y. Press and mold for molding glass	275,984	Apr. 17	1442	397	23	1490
Brooke, Francis M., Philadelphia, Pa. Attachment for printing-presses	288,404	Nov. 13	785	212	25	652
Brooke, Homer, Jersey City, N. J. Molding screw-forms in plastic material	283,321	Aug. 14	1017	285	24	690
Brooke, Isaac, Royer's Ford, Pa. Inkstand	271,410	Jan. 30	1966	568	23	395
Brooke, Isaac, Royer's Ford, Pa. Inkstand	279,532	June 19	1160	321	23	2334
Brooke, Isaac, Royer's Ford, Pa. Inkstand	280,568	July 3	277	76	24	50
Brooke, Thomas G., Newark, Ohio. Corn and fodder binding device	277,214	May 8	882	234	23	1783
Brookes, Elijah, Hawarden, county of Flint, England. Toasting-fork	270,277	Jan. 9	531	156	23	114
Brookfield, William. (See Brooke, Aries P., assignor.)						
Brookmire, James H., St. Louis, Mo. Apparatus for mixing sugar	278,392	May 29	2339	640	23	2057
Brooks, Adolphus E., Jefferson, Ga. Cultivator	275,577	Apr. 10	996	251	23	1392
Brooks, Alfred A., Cambridge, Mass. Boot or shoe sole	280,791	July 10	573	160	24	108
Brooks, Austin A., assignor of one-half to J. A. Whitfield and H. M. Wilcox, Eau Claire, Wis. Car-truck	278,495	May 29	2467	673	23	2079
Brooks, Byron A. (See Knowles, Edward R., assignor.)						
Brooks, Byron A., Flushing, N. Y. Type-writing machine	272,023	Feb. 13	547	148	23	547
Brooks, Byron A., New York, N. Y. Type-writer	273,454	Mar. 6	275	74, 75	23	880
Brooks, Byron A., New York, N. Y. Type-writing machine	274,262	Mar. 20	1309	361	23	1075
Brooks, Charles A., Lenox, Iowa. Trace-carrier	274,712	Mar. 27	1892	528	23	1184
Brooks & Co., E. J. (See Brooks, Edward J., assignor.)						
Brooks & Co., E. J. (See Penfold, Alexander D., assignor.)						
Brooks, David D., Washington, S. C. Millstone-dress	284,535	Sept. 4	460	130	24	982
Brooks, Douglas A., *et al.* (See Farmer, James C., assignor.)						
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Car-door fastening	270,874	Jan. 16	1288	371, 372	23	266
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Metallic tag	278,214	May 22	2084	574	23	2004
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Metallic seal	278,866	June 5	265	76	23	2168
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Seal-lock for car-doors	285,219	Sept. 18	1303	367	24	1142
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Seal-lock	285,384	Sept. 25	1502	423	24	1183
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Metallic seal	286,775	Oct. 16	1253	339	25	242
Brooks, Ethan, West Springfield, Mass. Connection-well for steam street-mains	275,129	Apr. 3	333	91	23	1283
Brooks, Howard F., Chicago, Ill. Child's carriage	276,955	May 1	353	144	23	1721
Brooks, James W., trustee. (See Glidden, Charles W., assignor.)						
Brooks, James W., *et al.*, trustees. (See Goddu, Louis, assignor.)						
Brooks, James W., *et al.*, trustees. (See Hopkins, William P., assignor.)						
Brooks, John, Plainfield, N. J. Printing-press	274,558	Mar. 27	1712	475, 476	23	1150

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Brooks, John, Plainfield, N. J. Inking apparatus for printing-presses	280,127	June 26	1863	525	23	9465
Brooks, John, Detroit, Mich. Pill-machine	290,524	Dec. 18	1460	403, 404	25	1158
Brooks, John, and W. Scully, Detroit, Mich. Gear-cutter	276,346	Apr. 24	1903	528	23	1576
Brooks, John C., assignor to Textile Manufacturing Company, Westfield, Mass. Casket-knob	270,177	Jan. 2	410	120	23	83
Brooks, Joseph A., Denmark, Tenn. Straw-cutter	284,175	Sept. 4	21	5	24	908
Brooks, Leonard E., Spring Valley, N. Y. Road-scraper	284,604	Sept. 11	544	154	24	1002
Brooks, Merritt S., Chester, Conn. Tap-wrench	272,408	Feb. 20	1040	291	23	637
Brooks, Oliver N., Guilford, Conn. Fire-escape	285,564	Sept. 25	1711	483	24	1222
Brooks, Reese G., Scranton, Pa. Railway-switch adjusting and locking device	274,713	Mar. 27	1893	528	23	1184
Brooks, Theodore L., Port Byron, N. Y. Feeding device for horses	289,214	Nov. 27	1778	492	25	842
Brooks, Thomas A., *et al.* (See Hutson, William L., assignor.)						
Brooks, Willard P., Topeka, Kans. Fence-post	284,806	Sept. 11	799	223	24	1045
Brooks, William H., New York, N. Y. Apparatus for generating vapor from liquid hydrocarbon	272,373	Feb. 13	973	272, 273	23	621
Brooks, William H., New York, N. Y. Hydrocarbon-burner	273,942	Mar. 13	905	247	23	996
Brooks, William H., New York, N. Y. Utilizing the waste heat of furnaces	278,496	May 29	2467	673	23	2080
Broomall, John M. Jr., *et al.* (See Bott, Joseph E., assignor.)						
Broome, Joseph B., Oswego, N. Y. Hat-holder	290,735	Dec. 25	1743	482	25	1215
Brosemann, Ernst. (See Odiorne and Brosemann.)						
Brosius, John M., East Dallas, Tex. Running-gear	270,382	Jan. 9	669	196	23	140
Brostrom, Charles A., Rock Island, Ill. Harrow	290,525	Dec. 18	1463	404	25	1159
Brotherhood, Fred, Charleston, S. C. Excavating and apparatus therefor	285,565	Sept. 25	1713	484	24	1222
Brotherhood, Peter, Lambeth, county of Surrey, England. Multiple-cylinder engine	284,372	Sept. 4	258	71	24	948
Brothers, Eli and J., Lynn, Mass. Pinchers	278,680	June 5	6	2	23	2126
Brothers, Joseph. (See Brothers, Eli and J.)						
Brott, Graham, Waterford, N. Y. Telegraph-wire coupling	272,524	Feb. 20	1183	330	23	661
Brottor, George W. (See Graves and Brottor.)						
Brough, Thomas J., Baltimore, Md. Carburetor	284,373	Sept. 4	259	72	24	948
Broughton, Frederick. (See Harmer, Henry, assignor.)						
Brower, Calvin W. (See Angus, Robert B., assignor.)						
Brower, George W., Crawfordsville, Ind. Hay elevator and carrier	273,455	Mar. 6	277	75	23	880
Brower, John, Woodland, Cal. Adjustable grate for stoves and ranges	271,214	Jan. 30	1715	496	23	350
Brower, Joseph W., Indianapolis, Ind. Coal-oil stove	271,215	Jan. 30	1716	497	23	350
Brower, Warren, Newburg, N. Y. Machine for sanding brick-molds	290,736	Dec. 25	1744	482	25	1215
Brown, Abner S., Cambridge, Nebr. Tongue-support	272,024	Feb. 13	549	148	23	547
Brown, Abram C. (See Barker, John, assignor.)						
Brown, Addison P., New York, N. Y. Combined pocket-knife and cigar-cutter	274,714	Mar. 27	1895	528	23	1184
Brown, Adolph G., New York, N. Y. Box for stationery	275,578	Apr. 10	927	252	23	1393
Brown, Ainsworth, Colorado Springs, Colo. Rolling window-screen	285,006	Sept. 18	1048	294	24	1098
Brown, Albert, Mendocino, Cal. Paper-bag and twine holder combined	288,204	Nov. 13	513	142	25	606
Brown, Alexander C. (See Brown, William L. and A. C.)						
Brown, Alexander E., Cleveland, Ohio. Hoisting and conveying machine	281,011	July 10	827	230, 231	24	153
Brown, Alexander E., Cleveland, Ohio. Hoisting and conveying machine	281,446	July 17	1387	381, 382	24	257
Brown, Alexander T., Syracuse, N. Y. Breech-loading gun	274,435	Mar. 20	1529	421	23	1113
Brown, Alexander T., Syracuse, N. Y. Breech-loading fire-arm	282,838	Aug. 7	432	122	24	577
Brown, Alexander T., assignor of one-half to H. H. Lincoln, Syracuse, N. Y. Fire-escape	272,642	Feb. 20	1338	375	23	689
Brown, Alexander T., assignor to L. C. Smith, Syracuse, N. Y. Gun-lock	289,062	Nov. 27	1596	442	25	809
Brown, Anna M. (See Long, Oliver, assignor.)						
Brown, Arthur L. (See Hoppin and Brown.)						
Brown, Augustus. (See Fredricks and Brown.)						
Brown, Campbell C., *et al.* (See Onderdonk, Lansing, assignor.)						
Brown, Charles, Winterthur, Switzerland. Railway running-gear	278,770	June 5	114	32, 33	23	2143
Brown, Charles, Lynn, Mass., assignor to American Staple Sewing Machine Company, Putnam, Conn. Boot and shoe sewing machine	272,409	Feb. 20	1041	291, 292	23	637
Brown, Charles A., E. B. Denison, and C. D. Brown, Portland, Me. Box-board	289,383	Dec. 4	14	.....	25	889
Brown, Charles B., St. Louis, Mo. Door-knob attachment	273,943	Mar. 13	906	247	23	996
Brown, Charles B., Chicago, Ill. Thimble-skein	279,909	June 26	1600	448	23	2418
Brown, Charles D. (See Brown, Denison, and Brown.)						
Brown, Charles E. W., Pittsburg, Pa. Device for truing grindstones and emery-wheels	275,579	Apr. 10	928	252	23	1393
Brown, Charles H., *et al.* (See Farmer, James C., assignor.)						
Brown, Charles O. (See Cunningham, Fieldon B., assignor.)						
Brown, Charles R. (See Timoney and Brown.)						
Brown, Charles T., assignor of one-half to F. L. Brown, Chicago, Ill. Car starter and brake	277,863	May 15	1646	449	23	1923
Brown & Co. (See Yakel, Levi, assignor.) (Reissue.)						
Brown & Co., R. H. (See Reid, Charles H., assignor.)						
Brown, D. Austin, Boston, Mass. Device for handling glassware	275,130	Apr. 3	334	92	23	1983
Brown, Daniel C., North Collins, N. Y. Sap-spout	287,414	Oct. 30	2069	562	25	402
Brown, David H. (See Davis and Brown.)						
Brown, David J. (See Heaton and Brown.)						
Brown, David R., St. Louis, Mo. Harvester	276,764	May 1	307	79, 80	23	1679
Brown, E. C., *et al.* (See Cowell, Edward R. E., assignor.)						
Brown, E. Herman, Baltimore, Md. Fire-escape	284,808	Sept. 11	802	224	24	1046
Brown, Edward, Philadelphia, Pa. Open-grate stove	273,456	Mar. 6	279	75	23	881
Brown, Edward B., Brimfield, Mass. Stock-car	288,405	Nov. 13	786	212, 213	25	652
Brown, Edward R., Spartenburg, S. C. Car-coupling	277,674	May 15	1428	385	23	1883
Brown, Edwin, Worcester, Mass. Mechanism for making belts, &c	279,219	June 12	754	208	23	2262
Brown, Edwin H., Brooklyn, N. Y. Mechanical musical instrument	278,771	June 5	116	33	23	2143
Brown, Erastus E. (See Cook, James W., assignor.)						
Brown, F. Barton, assignor of one-half to G. Frost & Co., Boston, Mass. Clasp	284,536	Sept. 4	461	130	24	982
Brown, F. Barton, assignor of one-half to G. Frost & Co., Boston, Mass. Clasp	284,943	Sept. 11	960	269	24	1075
Brown, Felix, New York, N. Y. Lubricator for journals	280,569	July 3	278	76	24	50
Brown, Felix, New York, N. Y. Fog-signal	284,807	Sept. 11	800	223, 224	24	1045
Brown, Fernando. (See Talbot and Brown.)						
Brown, Flora L. (See Brown, Charles T., assignor.)						
Brown, Francis W., Rochester, N. Y. Insulating, carrying, and laying electric wires	288,002	Nov. 6	273	77	25	554
Brown, Frank. (See Dunbar, Junius H., assignor.)						
Brown, Frank, Chagrin Falls, Ohio. Fence-post	275,131	Apr. 3	334	92	23	1983

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Brown, Frank C., *et al.* (See Lutz, Charles H., assignor.)						
Brown, Frank M., Boston, and C. B. Bosworth, Everett, Mass., assignors to Helios Electric Light Company of Maine. Commutator for dynamo-electric machines	290,288	June 26	2057	578	23	2499
Brown, Fred H., Boulder, Colo. Apparatus for detecting mineral ores	274,882	Mar. 27	2101	583	23	1218
Brown, George, *et al.* (See Stamour, John B., assignor.)						
Brown, George L. (See Bruck, David T., assignor.)						
Brown, George W., Galesburg, Ill. Seed-planter. (Reissue)	10,294	Mar. 13	1091	301	23	1029
Brown, George W., Galesburg, Ill. Corn-planter	278,497	May 29	2469	673 674	23	2080
Brown, George W., Galesburg, Ill. Corn-planter	278,498	May 29	2471	674	23	2080
Brown, George W., Galesburg, Ill. Corn-planter	278,499	May 29	2472	674	23	2081
Brown, George W., Galesburg, Ill. Corn-planter check-rower	278,500	May 29	2474	675	23	2081
Brown, George W., and H. Lambert, Salem, N. J. Can-filling machine	289,807	Dec. 11	541	151	25	987
Brown, George W., and J. C. Tunnicliff, Galesburg, Ill. Corn-planter check-rower	278,653	May 29	2656	727	23	2112
Brown, Gilman W., West Newbury, Mass. Mechanism for indicating the longitudinal expansion of the operative cord of a steam-engine indicator	284,176	Sept. 4	21	6	24	908
Brown, Henry H., Spencerport, N. Y. Fruit-press	281,830	July 24	1887	515	24	348
Brown, Henry S., Hartford, Conn. Shrinkage-gage	271,411	Jan. 30	1966	568	23	395
Brown, Heston & Co. (See Heston, David, assignor.)						
Brown, Heston & Co. (See Heston and Brown, assignors.)						
Brown, Ira, *et al.* (See Kelly, Robert M., assignor.)						
Brown, Israel F., New London, Conn. Wood-screw	281,831	July 24	1887	515	24	348
Brown, Israel F., New London, Conn. Car-truck	286,776	Oct. 16	1255	339	25	242
Brown, Jackson. (See Smith, James W., assignor.)						
Brown, James, Paine's Hollow, N. Y. Car-coupling	287,415	Oct. 30	2070	563	25	402
Brown, James H., Ottawa, Ill. Oil-can for oiling machinery	290,206	Dec. 18	1031	290	25	1085
Brown, James O., Bangor, Me., assignor to Brown Quadricycle Company, Philadelphia, Pa. Velocipede. (Reissue)	10,307	Apr. 10	1209	331	23	1440
Brown, John, assignor to J. W. Tufts, Medford, Mass. Head for siphon-bottles	289,063	Nov. 27	1596	442	25	809
Brown, John C., Davenport Centre, N. Y. Butter-package	273,020	Feb. 27	1823	510	23	780
Brown, John H., Urbana, Ohio. Cotton-chopper	276,557	May 1	14	4	23	1629
Brown, John H., assignor to Brown Standard Fire Arms Company, New York, N. Y. Breech-loading fire-arm	290,737	Dec. 25	1745	482	25	1216
Brown, John H., assignor to Brown Standard Fire Arms Company, New York, N. Y. Gun-barrel	290,738	Dec. 25	1747	483	25	1216
Brown, John H., assignor to Brown Standard Fire Arms Company, New York, N. Y. Sight for fire-arms	290,739	Dec. 25	1748	483	25	1216
Brown, John H., assignor to Brown Standard Fire Arms Company, New York, N. Y. Fire-arm	290,740	Dec. 25	1750	483	25	1216
Brown, John W., Brooklyn, N. Y. Apparatus for drying malt	277,876	May 22	1670	456	23	1933
Brown, John W., Jr., Baltimore, Md. Machine for cutting green corn from the cob	273,457	Mar. 6	280	76	23	881
Brown, Joseph R., Bridgeport, Conn., assignor to Automatic Fire Extinguisher Company, New York, N. Y. Automatic fire-extinguisher	278,215	May 22	2086	574	23	2004
Brown, Joseph R., Bridgeport, Conn., assignor to Automatic Fire Extinguisher Company, New York, N. Y. Automatic fire-extinguisher	278,216	May 22	2087	574	23	2005
Brown, Joseph R., Bridgeport, Conn., assignor to Automatic Fire Extinguisher Company, New York, N. Y. Automatic fire-extinguisher	278,217	May 22	2088	575	23	2005
Brown, Joseph R., Bridgeport, Conn., assignor to Automatic Fire Extinguisher Company, New York, N. Y. Automatic fire-extinguisher	278,218	May 22	2088	575	23	2005
Brown, Joseph R., Providence, R. I., assignor to Automatic Firo Extinguisher Company, New York, N. Y. Automatic fire-extinguisher	278,219	May 22	2090	575	23	2005
Brown, Joshua, assignor of one-half to F. Hardwick, Quincy, Mass. Key-hole guard	269,824	Jan. 2	4	1	23	3
Brown, Joshua, Jr., New York, N. Y. Sign	276,558	May 1	16	5	23	1629
Brown, Justus N., Owatonna, Minn. Portfolio	284,272	Sept. 4	141	40	24	928
Brown, Leander S., Sharpsburg, Pa. Ash-sifting shovel	281,012	July 10	831	281	24	154
Brown, Lorenzo D. (See Stevens, Nathan P., assignor.)						
Brown, Lucian, *et al.* (See Stamour, John B., assignor.)						
Brown, M. Harrison, and C. F. Hyde, Ottawa, Kans. Combined wire and picket fence	277,877	May 22	1671	456	23	1933
Brown Manufacturing Company, O. E. (See Rickerson, Sherman B., assignor.)						
Brown, Martin B. (See Van Allen, George W., assignor.)						
Brown, Morgan W., assignor to W. Quinlan, Brooklyn, N. Y. Preparing paper for copying purposes	283,322	Aug. 14	1018	.....	24	690
Brown Quadricycle Company. (See Brown, James O., assignor.) (Reissue.)						
Brown, Reuben H., New Haven, Conn. Calipers	288,770	Nov. 20	1238	340	25	737
Brown, Reuben H., New Haven, Conn. Calipers	288,771	Nov. 20	1239	340	25	737
Brown, Richard, Alliance, Ohio. Foundry-ladle gear	289,499	Dec. 4	163	44	25	915
Brown, Richard H., assignor of one-half to J. Reed, Omaha, Nebr. Furnace for heating tubes	273,944	Mar. 13	906	248	23	996
Brown, Robert, Springfield, Ohio. Harvesting-machine	285,730	Sept. 25	1925	545 546	24	1260
Brown, Robert, Springfield, Ohio. Wheel	287,801	Nov. 6	15	4	25	509
Brown, Robert B., St. Louis, Mo. Manufacture of oil from oleaginous seed	285,220	Sept. 18	1306	367	24	1142
Brown, Rufus H., *et al.* (See Enos, John A., assignor.)						
Brown, Samuel, San Francisco, Cal. Safety car-truck	280,442	July 3	132	35	24	25
Brown & Sharpe Manufacturing Company. (See Beale, Oscar J., assignor.)						
Brown & Sharpe Manufacturing Company. (See Carleton, Cyrus, assignor.)						
Brown, Silas M., Mount Gilead, Ohio. Cider and wine press	280,570	July 3	278	76	24	50
Brown Standard Fire Arms Company. (See Brown, John H., assignor.)						
Brown, Thomas B., Mount Vernon, Ind. Match-safe	289,500	Dec. 4	164	44	25	915
Brown, Thomas H., Milwaukee, Wis. Two-wheeled vehicle	286,174	Oct. 9	483	134	25	100
Brown, Thomas H., Jr., assignor to S. Clary, Chicago, Ill. Box-fastener	287,093	Oct. 23	1665	457	25	391
Brown, Thomas J., and G. McGowan, Penfield, N. Y. Fruit-drier	270,278	Jan. 9	532	156	23	114
Brown, Tilghman A., Worthington, Ind. Tea or coffee pot	285,731	Sept. 25	1927	546	24	1260
Brown, Timothy S., and G. Williams, Roseville, Cal. Harrow	283,069	Aug. 14	709	199	24	634
Brown, Timothy Y., *et al.*, trustees. (See Cocheu, Noah L., assignor.)						
Brown, Wencel, assignor of one-half to J. B. Erwin, Milwaukee, Wis. Sewing-machine shuttle	278,303	May 22	2212	607	23	2026
Brown, William, Duncannon, Pa. Lightning-conductor	271,029	Jan. 23	1485	428	23	304
Brown, William, Duncannon, Pa. Automatic nail-plate feeder	277,215	May 8	883	234 235	23	1783
Brown, William, Worcester, Mass. Tally-board	283,750	Aug. 28	1556	439	24	807
Brown, William, assignor of one-half to T. Lang, West Point, Ga. Lease-rod for looms	288,303	Nov. 13	635	174	25	627
Brown, William A., and J. F. Smith, Terrell, Tex. Smoke and cinder conductor	276,664	May 1	154	39	23	1652
Brown, William E., and H. J. Durgin, Irving, Kans. Machine for painting wire fences	276,347	Apr. 24	1904	528	23	1576

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Brown, William F., and C. L. Haight, Poughkeepsie, N. Y. Car-platform	289,614	Dec. 4	301	84	25	940
Brown, William H., assignor to Haugh, Ketcham & Co., Indianapolis, Ind. Lathing and furring	271,309	Jan. 30	1828	531	23	370
Brown, William L. and A. C., Cherry Grove, Pa. Snap-hook	283,464	Aug. 21	1206	339	24	730
Brown, William P., Zanesville, Ohio. Hand-truck	283,562	Aug. 21	1321	369	24	751
Brown, William P., Zanesville, Ohio. Wagon-gear	284,809	Sept. 11	804	224	24	1046
Brown, William P., Zanesville, Ohio. Wheel-cultivator	288,003	Nov. 6	274	77, 78	25	554
Brown, William S., Thorntown, Ind. Buckle and trace-carrier	278,501	May 29	2475	675	23	2081
Brown, William T. (See Bartine, Stephen B., assignor.)						
Brown, William V., and T. S. Poole, Acadia, Nova Scotia, Canada. Car-coupling	287,619	Oct. 30	2348	633	25	455
Brown, William W., and L. A. Gates, San Francisco, Cal. Apparatus for extracting the precious metals by means of the lead bath	289,064	Nov. 27	1597	442 443	25	809
Browne, Alexander P. (See Burnett, Edward, assignor.)						
Browne, Alexander P., Boston, assignor to himself and E. Burnett, Southborough, Mass. Fastener for stoppers of milk-cans, &c.	281,607	July 17	1585	434	24	289
Browne, Alexander P., Boston, assignor to himself and E. Burnett, Southborough, Mass. Lock-stopper for milk-cans	281,608	July 17	1586	434	24	289
Browne, Arthur W. (See Johnston, Browne, Starr, and Gilbert.)						
Browne, Oliver L. F., Syracuse, N. Y. Apparatus for separating solid matter from liquids	283,373	Aug. 21	1099	309	24	710
Browne, Samuel A. (See Browne, Symmes E. and S. A.)						
Browne, Symmes E., Columbus, and S. A. Browne, Cincinnati, Ohio; said S. A. Browne assignor to said Symmes E. Browne. Thill-coupling	288,541	Nov. 13	948	259	25	680
Browne, Walker G., Atlanta, Ga. Folding dental chair	271,596	Feb. 6	13	4	23	443
Browne, William F., New York, N. Y. Process of and apparatus for desulphurizing ores	284,177	Sept. 4	23	6	24	908
Browne, William F., New York, N. Y. Method of and apparatus for desulphurizing ores	284,178	Sept. 4	26	6	24	909
Browne, William T., Orange, N. J. Manufacture of surgical lint	282,364	July 31	2440	671	24	446
Brownell, Anna J. (See Wright, Howell W., assignor.)						
Brownell, Anna J., *et al.* (See Brownell, Willis L., assignor.)						
Brownell, Elijah H., Dayton, Ohio. Riding roller plow or harrow	288,542	Nov. 13	949	260	25	680
Brownell, Frederick B., St. Louis, Mo. Street-car-door mechanism	286,257	Oct. 9	585	160 161	25	117
Brownell, George L., Worcester, Mass. Machine for making twine or cordage	277,986	May 22	1801	491 492	23	1955
Brownell, George L., Worcester, Mass. Machine for making twine and cordage	286,258	Oct. 9	586	161	25	117
Brownell, William H., Brooklyn, N. Y. Artist's box	275,882	Apr. 17	1328	365	23	1469
Brownell, Willis L., assignor to A. Smith and A. J. Brownell, Brooklyn, N. Y. Making boilers	280,905	July 10	698	196	24	130
Browning, Clinton, Shousetown, assignor of one-half to Lindsay & McCutcheon, Allegheny; said Browning and Lindsay & McCutcheon assignors to J. H. Lindsay, trustee, Allegheny city, Pa. Car-coupling. (Reissue)	10,291	Feb. 27	2098	588	23	828
Browning, Clinton, Shousetown, assignor, by mesne assignments, to J. H. Lindsay, trustee, Allegheny city, Pa. Car-coupling	273,343	Mar. 6	134	38	23	856
Browning, Clinton, Shousetown, assignor to J. H. Lindsay, trustee, Allegheny city, Pa. Car-coupling	273,664	Mar. 6	539	145	23	926
Browning, Clinton, Shousetown, assignor to J. H. Lindsay, trustee, Allegheny city, Pa. Car-buffer	273,665	Mar. 6	543	145	23	927
Browning, John M. and M. S., Ogden, Utah Ter. Magazine-gun	282,839	Aug. 7	434	123	24	577
Browning, Matthew S. (See Browning, John M. and M. S.)						
Brubaker, Jacob H., Rockton, Pa. Animal-trap	279,126	June 12	656	179 180	23	2245
Bruce, James H. (See McCook, Joshua P., assignor.)						
Bruce, Lucien F., Springfield, Mass. Cartridge-feeder for machine-guns	273,249	Mar. 6	8	3	23	836
Bruck, David T., Marionville, Mo., assignor of one-half to G. L. Brown, Mansfield, Ohio. Churn	282,047	July 31	2154	591	24	399
Brueggeman, Henry, *et al.* (See Eger, John, assignor.)						
Bruen, John T., Brooklyn, assignor to W. F. Ware, New York, N. Y. Extension-chandelier	276,130	Apr. 17	1623	447	23	1520
Brumble, William, Baltimore, Md. Car-coupling	285,221	Sept. 18	1307	360	24	1142
Brumble, William, Baltimore, Md. Car-brake	289,070	Dec. 11	742	210	25	1024
Brun, Jean J. L., assignor of one-half to T. Gruaz, Highland, Ill. Self-winding watch	271,030	Jan. 23	1486	428	23	304
Brunacci, Richard E., Attleborough, Mass. Sleeve-button	278,772	June 5	118	33	23	2144
Brunck, Heinrich, Ludwigshafen, Bavaria, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of anthracene-blue	274,081	Mar. 13	1070	.....	23	1025
Brunck, Otto, San Francisco, Cal. Spring draft-tug	281,236	July 17	1123	309	24	212
Brundage, George E., New York, N. Y. Bottle-lock	285,385	Sept. 25	1504	423	24	1183
Brunell, Mineheart, assignor of one-half to P. Brunell, P. J. and V. A. Furnace, and P. Hyde, Allegany, N. Y. Compound steam-engine	289,065	Nov. 27	1600	443	25	810
Brunell, Philopene, *et al.* (See Brunell, Mineheart, assignor.)						
Brunelle, Onésime, Cincinnati, O. Scouring, scratching, and buffing wheel	285,222	Sept. 18	1307	368	24	1143
Brunner, John. (See Hershberger, Daniel, assignor.)						
Brunny, John, Fort Scott, Kans. Well-bucket	284,374	Sept. 4	260	72	24	948
Bruno, Theodore, Saginaw, Mich. Stave-jointing machine	271,682	Feb. 6	116	32	23	460
Bruns, Friedrich A., New York, assignor to himself and J. L. Truslow, Jr., Brooklyn, N. Y. Preserving hops	279,127	June 12	657	.....	23	2246
Brunson, Francis, Decker, Ind. Saw-handle	278,088	May 22	1919	526	23	1976
Brunswick Antimony Company. (See Mayall, Thomas J., assignor.)						
Brunswick Antimony Company. (See Parsons, Charles E., assignor.)						
Brunswick Ship's Berth Company. (See Milligan, William T., assignor.)						
Brunswick Ship's Berth Company. (See Wells, Webster, assignor.)						
Brunt, William H. (See Ward and Brunt.)						
Brunt, William H., Baldwin, assignor to Voigt, Ward & Co., Pittsburg, Pa. Glass shade	281,609	July 17	1589	435	24	290
Brunt, William H., assignor to Voigt, Ward & Co., Pittsburg, Pa. Mold for glassware	281,610	July 17	1590	435	24	290
Bruschke, William J., Chicago, Ill. Sofa	277,454	May 15	1168	314	23	1840
Brush, Charles C., Crystal, Iowa. Horse-power and capstan	277,216	May 8	884	235	23	1783
Brush, Charles F., Cleveland, Ohio. Secondary battery	274,082	Mar. 13	1071	295	23	1026
Brush, Charles F., Cleveland, Ohio. Carbon rod or stick and mechanism for making the same	274,904	Apr. 3	15	4	23	1229
Brush, Charles F., Cleveland, Ohio. Secondary-battery element	274,905	Apr. 3	17	4	23	1229
Brush, Charles F., Cleveland, Ohio. Secondary battery	275,985	Apr. 17	1443	398	23	1491
Brush, Charles F., Cleveland, Ohio. Secondary battery	275,986	Apr. 17	1444	398	23	1491
Brush, Charles F., Cleveland, Ohio. Secondary battery	276,155	Apr. 24	1655	457	23	1534
Brush, Charles F., Cleveland, Ohio. Element for secondary batteries	276,348	Apr. 24	1905	529	23	1576
Brush, Charles F., Cleveland, Ohio. Current-manipulator for secondary battery charging	281,175	July 10	1027	287	24	188
Brush, Charles F., Cleveland, Ohio. Apparatus for measuring the amount of current energy received by a secondary battery	281,176	July 10	1034	287 288	24	190

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Brush, Charles F., Cleveland, Ohio. Armature for dynamo-electric machines	285,457	Sept. 25	1590	447	24	1199
Brush, Charles F., Cleveland, Ohio. Forming electrodes for secondary batteries	286,259	Oct. 9	588	161	25	118
Brush, Reuben G., *et al.* (See Yates, Henry G., assignor.)						
Bruss, Otto. (See Schirer, August, assignor.)						
Brust, Albert G., Uniontown, assignor of one-half to E. W. Anderson and J. C. Smith, Washington, D. C. Screw-cutting die	280,128	June 26	1865	526	23	2465
Brust, Albert G., assignor of one-half to E. W. Anderson and J. C. Smith, Washington, D. C. Metal-grooving tool	288,159	Nov. 6	451	126	25	586
Bruton, Jackson W., Guthrie, Mo. Churn	283,393	Aug. 14	1019	285	24	690
Bryan, Edward. (See Bowling, John P., assignor.)						
Bryan, George W., Norwalk, Conn. Child's carriage	281,832	July 24	1888	515	24	348
Bryan, James M., Guthrie, Ky. Fishing-reel	278,867	June 5	266	77	23	2168
Bryan, John, Bloomington, Ill. Bottling-machine	285,458	Sept. 25	1592	447	24	1199
Bryan, William H., Warm Springs, Va. Dough or butter worker	290,392	Dec. 18	1270	357	25	1127
Bryant, Charles B., Woburn, Mass. Machine for smutting leather	272,025	Feb. 13	550	149	23	548
Bryant, Edson L. (See Gilbert, William F., assignor.)						
Bryant, Francis. (See Warren, Henry J., assignor.)						
Bryant, George M., Minneapolis, Minn. Metal-melting furnace	282,265	July 31	2442	672	24	446
Bryant, Reuben T., and D. Tostevin, Council Bluffs, Iowa. Sewer	273,945	Mar. 13	907	248	23	997
Bryant, Reuben T., and D. Tostevin, Council Bluffs, Iowa. Foundation for pavements	279,701	June 19	1353	377	23	2368
Bryer, William F., Boston, Mass. Trunk	286,383	Oct. 9	760	206	25	148
Buch, George C., Eureka, Mo. Boot or shoe	281,664	July 24	1664	454	24	308
Buckalew, George W., and P. Quinn, New York, N. Y. Polishing compound	284,718	Sept. 11	693	.....	24	1028
Buchan, William P., Glasgow, county of Lanark, Scotland. Water-closet	287,225	Oct. 23	1834	502	25	352
Buchan, William P., Glasgow, county of Lanark, Scotland. Ventilator	288,004	Nov. 6	277	78	25	555
Buchanan, Alexander F., Montrose, N. Y. Machine for ornamenting and cutting oil-cloth, &c.	271,782	Feb. 6	238	66	23	492
Buchanan, Alexander F., Montrose, N. Y. Manufacture of oil-cloth	276,765	May 1	300	80	23	1679
Buchanan, James, Indianapolis, Ind. Grain thrasher and separator	271,310	Jan. 30	1829	531	23	371
Buchanan, James, Indianapolis, Ind. Plow	277,987	May 22	1802	492	23	1955
Buchanan, John, assignor to Waterbury Buckle Company, Waterbury, Conn. Garment-clasp	288,005	Nov. 6	279	79	25	555
Buchanan, William C., assignor to Harrison Machine Works, Belleville, Ill. Separator and cleaner for thrashing-machines	278,502	May 29	2476	675	23	2081
Buchanan, William J., Huntington, Ind. Attachment for steam-engine governors	287,620	Oct. 30	2349	634	25	455
Buchbinder, Oskar, and L. Vogt, Vienna, Austria-Hungary. Machine for milling key-seats	281,833	July 24	1889	516	24	348
Buchholz, August, Appleton, and A. W. Eddy, Zumbrota, Minn. Hay-press for fuel purposes	290,741	Dec. 25	1750	483	25	1217
Buck, Daniel, *et al.* (See Kirkland, William P., assignor.)						
Buck, David S., Middleville, Mich. Cherry-stoner	275,353	Apr. 10	636	170	23	1343
Buck, George N., Mattoon, Ill. Tag-fastener	286,112	Oct. 2	409	112	25	75
Buck, Henry A., Fredonia, N. Y. Feed-cutter	279,533	June 19	1161	321	23	2335
Buck, James A., assignor of one-half to A. C. and S. Newton, Crescent, and A. H. Newton, Cohoes, N. Y. Machine for sanding molds for brick	284,115	Aug. 28	2018	561 562	24	887
Buck, James A., assignor of one-half to S., A. H., and A. Newton, Crescent, N. Y. Machine for sanding brick-molds	290,847	Dec. 25	1679	519	25	1239
Buck, Thomas E., St. Louis, Mo. Jetty for correcting the channels of rivers, &c.	275,132	Apr. 3	335	92	23	1283
Buckell, Albert, Pontiac, Mich. Clevis	270,201	Jan. 9	440	130	23	97
Bucker, Robert, Elizabeth, N. J. Electric-arc lamp	285,107	Sept. 18	1172	328	24	1119
Buckeridge, William, Port Huron, Mich. Axle-gage	278,868	June 5	269	77	23	2169
Buckett, John, Southwark, county of Surrey, England. Caloric-engine	279,326	June 12	891	248 249	23	2284
Buckeye Brush Company. (See Hawkins, Samuel K., assignor.)						
Buckeye Engine Company. (See Barnaby, Charles W., assignor.)						
Buckeye Engine Company. (See Hunt, Nathan, assignor.)						
Buckeye Iron and Brass Works. (See Dover, Samuel B., assignor.)						
Buckeye Iron and Brass Works. (See Krutzsch, William, assignor.)						
Buckingham, Charles L. (See Vansize and Buckingham.)						
Buckingham & Hecht. (See Buckingham, Thomas H., assignor.)						
Buckingham, Joseph P., New York, N. Y. Folding box	284,179	Sept. 4	28	7	24	909
Buckingham, Thomas H., assignor to Buckingham & Hecht, San Francisco, Cal. Boot	280,443	July 3	153	36	24	25
Buckins, Albert O., and C. A. Taylor, Chicago, Ill.; said Buckins assignor to said Taylor. Trunk-catch	287,226	Oct. 23	1835	502	25	352
Buckins, Albert O., and C. A. Taylor, Chicago, Ill.; said Buckins assignor to said Taylor. Trunk-fixture	287,227	Oct. 23	1837	502	25	352
Buckley, Chauncey, Meriden, Conn. Curtain-fixture	282,840	Aug. 7	435	123	24	577
Buckley, Chauncey, and L. L. Sawyer, Meriden, Conn. Spring curtain-roller	275,987	Apr. 17	1446	398	23	1491
Buckley, Edward, H., Philadelphia, Pa. Manufacture of boots and shoes	289,808	Dec. 11	543	151	25	988
Buckley, Edward M., and A. Jackson, San Francisco, Cal. Automatic car-brake	273,344	Mar. 6	137	38	23	857
Buckley, Edward M., and A. Jackson, San Francisco, Cal. Car-brake	273,345	Mar. 6	139	38	23	857
Buckley, James H., Bangor, Me. Bench-plate socket	277,675	May 15	1429	385	23	1983
Buckley, James M., Portland, Oreg. Discharge-pipe for dredging and other machines	282,700	Aug. 7	284	80	24	548
Buckley, James M., Portland, Oreg. Grading and leveling machine	282,701	Aug. 7	285	80	24	549
Buckley, John M., Sedalia, Mo. Oscillating steam-valve	284,719	Sept. 11	694	195	24	1028
Buckley, Robert C., Peoria, Ill. Sulky-plow	278,089	May 22	1919	527	23	1976
Buckley, William, Sheffield, county of York, England. Spring	274,715	Mar. 27	1895	528 529	23	1184
Buckley, William N., Meriden, Conn. Curtain-fixture	275,580	Apr. 10	929	252	23	1393
Bucklin, Charles A., and J. D. Knowlton, Camden, Me. Windlass	276,956	May 1	555	144 145	23	1721
Buckman, Alexander. (See Burns and Buckman.) (Reissue.)						
Buckman, Ira, Brooklyn, N. Y. Fire-escape	287,228	Oct. 23	1838	502	25	352
Buckwalter, Lewis. (See Kline, John A., assignor.)						
Bucyrus Foundry and Manufacturing Company. (See Thompson, John, assignor.)						
Buczkowski, Heinrich, Vienna, Austria-Hungary. Making soap sheets	273,946	Mar. 13	908	248	23	997
Budd, William O., Englewood, Ill. Baling-press	285,007	Sept. 18	1049	294	24	1098
Buddenberg, Henry C., Cincinnati, Ohio. Device for preventing the escape of effluvia from privy-vaults and drains	282,437	July 31	2671	732	24	487
Buddington, Frank E., Stillwater, Minn. Dress-maker's measure for cutting dresses and other articles of clothing	272,204	Feb. 13	768	213	23	585
Budington, Thomas G., *et al.* (See Hunt, Henry C., assignor.)						
Budington, Walter J., Pittsfield, Mass. Cement compound	281,965	July 24	2054	.....	24	376
Budlong, Lyman A., Chicago, Ill. Hand-cultivator	272,854	Feb. 27	1622	454	23	747
Budlong, Simeon, and W. O. Talcott, Providence, R. I. Belt-fastener	278,393	May 29	2340	640	23	2057

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Buell, Andrew L. (See Buell, Edger, assignor.)						
Buell, Charles E., *et al.* (See Coy, George W., assignor.)						
Buell, Charles E., New Haven, Conn. System of electric storage and supply	270,734	Jan. 16	1126	323	23	235
Buell, Charles E., New Haven, Conn. System of electric lighting for railway-trains	270,735	Jan. 16	1128	323, 324	23	236
Buell, Charles E., New Haven, Conn. Automatic fire extinguishing and alarm system	271,783	Feb. 6	239	67, 68	23	482
Buell, Charles E., New Haven, Conn. Fire extinguisher and alarm	275,752	Apr. 10	1154	317	23	1431
Buell, Charles E., New Haven, Conn. Automatic fire-extinguisher	278,654	May 29	2658	727	23	2112
Buell, Charles E., New Haven, Conn. Combined telegraph and clock system	279,327	June 12	894	249, 250	23	2284
Buell, Charles E., New Haven, Conn. Electric-clock system	280,715	July 3	450	129, 130	24	81
Buell, Charles E., New Haven, Conn. Electric fire-extinguisher and fire-alarm system	280,906	July 10	699	197	24	130
Buell, Charles E., New Haven, Conn. Fire-extinguishing system	285,459	Sept. 25	1502	447	24	1199
Buell, Charles E., New Haven, Conn. Combined call-bell and fire-alarm system	286,529	Oct. 9	934	251, 252	25	180
Buell, Edgar, assignor to himself and A. L. Buell, Clinton, Conn. Tool-handle	289,501	Dec. 4	164	45	25	915
Buell, Edgar, assignor to himself and A. L. Buell, Clinton, Conn. Bit-stock	289,502	Dec. 4	165	45	25	915
Buell, Frank A., assignor to H. W. Peace Company, (limited,) Brooklyn, N. Y. Saw-handle	281,447	July 17	1391	382	24	257
Buell, William C. (See Hagan, William E., assignor.)						
Buerkel, John F. (See Johnson and Buerkel.)						
Buermann, August, Newark, N. J. Spur	272,026	Feb. 13	551	149	23	548
Buermann, August, Newark, N. J. Spur	272,027	Feb. 13	552	149	23	548
Buermann, August, Newark, N. J. Spur. (Reissue)	10,321	May 1	597	156	23	1728
Buffington, Calvin A., Berkshire, N. Y. Thill-coupling	273,808	Mar. 13	735	200	23	968
Bufford, Frank G., New York, N. Y. Show-case and counter	283,374	Aug. 21	1101	310	24	710
Buffum, Herbert H., San Francisco, Cal. Automatic governor and cut-off	273 250	Mar. 6	10	3, 4	23	836
Bugbee, Calvin S., assignor to himself and D. F. Van Liew, Aurora, Ill. Whip-socket	279,207	Dec. 18	1032	290	25	1085
Bugbee, George W. (See Doane and Bugbee.)						
Bugbey, Benjamin N., Sacramento, Cal., assignor of one-half to G. C. Perkins and H. G. Smith. Refrigerator-car	270,383	Jan. 9	670	196	23	140
Bugg, Owen T., and D. Ivey, Memphis, Tenn. Ball-rack for pool-tables	269,825	Jan. 2	4	1	23	3
Buie, Duncan M., Wilmington, N. C., assignor, by mesne assignments, to J. B. Whitehead, G. M. Bain, E. M. Stoddard, O. E. Maltby, and G. Dick, Norfolk, Va. Manufacturing oils from organic substances. (Reissue)	10,338	June 5	638	173	23	2231
Bukey, Van Hartness. (See Schubert and Bukey.)						
Bulen, George F., Jersey City, N. J., assignor to Watkins Automatic Signal Telegraph Company, (limited,) New York, N. Y. Station-switch for fire-telegraphs	271,597	Feb. 6	15	4	23	443
Bulen, George F., Jersey City, N. J., assignor to Watkins Automatic Signal Telegraph Company, (limited,) New York, N. Y. Automatic testing apparatus for telegraphic fire-alarm stations	271,598	Feb. 6	18	5	23	443
Bulger, John W., East Liverpool, Ohio. Door-check	290,526	Dec. 18	1465	405	25	1150
Bulkley, Rosalvo A., assignor to himself and W. A. Cooper, Odessa, N. Y. Packing steam-joints	287,416	Oct. 30	2071	563	25	402
Bull, George, Maple City, assignor of one-half to J. D. Pryor, Winfield, Kans. Churn	277,830	May 15	1606	438	23	1915
Bull, Henry C., assignor to Bulls Iron and Steel Company, (limited,) Liverpool, county of Lancaster, England. Apparatus for manufacturing iron and steel directly from the ore	289,266	July 31	2443	672, 673	24	447
Bullard, Charles W., Maywood, Ill. Door-hanger	277,542	May 15	1272	341	23	1857
Bullard, Henry, assignor to Middletown Plate Company, Middletown, Conn. Ice-pitcher	274,263	Mar. 20	1311	362	23	1075
Bullard, Isaac, Readville, Mass. Piano-action	290,527	Dec. 18	1465	405	25	1160
Bullard, James H., Springfield, Mass. Cartridge-primer	278,304	May 29	2342	640	23	2057
Bullard, James H., Springfield, Mass. Magazine-gun	287,229	Oct. 23	1839	503	25	352
Bullenkamp, Frederick, Jr. (See Hunger and Bullenkamp.)						
Bulley, George N. (See Bulley and Burnham, assignors.)						
Bulley Louis T., and D. W. Burnham; said Bulley assignor to G. N. Bulley, New Haven, Conn. Snap-hook	280,792	July 10	573	160	24	108
Bulloch, Walter H., Chicago, Ill. Objective attachment in microscopes	287,904	Nov. 6	143	42	25	533
Bullock, Daniel, assignor to Northwestern Manufacturing Company, Fort Atkinson, Wis. Vehicle-top	276,957	May 1	556	145	23	1721
Bullock, Daniel, and J. Jackson, assignors to North Western Manufacturing Company, Fort Atkinson, Wis. Wagon running-gear	282,490	Aug. 7	12	3, 4	24	503
Bullock, Joseph P., assignor of two-thirds to Dennett Harvesting Machine Company, (limited,) Milwaukee, Wis. Grain-binder	272,828	Feb. 20	1566	440	23	730
Bullock, Joseph P., assignor of two-thirds to Dennett Harvesting Machine Company, (limited,) Milwaukee, Wis. Grain-binder	274,883	Mar. 27	2101	584	23	1218
Bullock, Joseph P., assignor to Dennett Harvesting Machine Company, (limited,) Milwaukee, Wis. Grain-binder	286,899	Oct. 16	1410	387, 388	25	269
Bullock, Lovell D., assignor of one-half to J. Gerrard, Jericho, Vt. Machine for jointing fellies	286,586	Oct. 16	1012	273, 274	25	200
Bullock, Milan C., Chicago, Ill. Variable eccentric for steam-engines	274,436	Mar. 20	1531	421	23	1113
Bullock, Milan C., Chicago, Ill. Compound steam-engine	274,437	Mar. 20	1532	421, 422	23	1113
Bullock, William R. (See Wiard and Bullock.)						
Bulls Iron and Steel Company. (See Bull, Henry C., assignor.)						
Bunce, George C., and L. W. Sammis, assignors to themselves and W. T. Seaman, Brooklyn, N. Y. Curry-comb	278,969	June 5	269	78	23	2169
Bunce, Thomas A., Berlin, assignor to A. G. Pomeroy, Hartford, Conn. Portable press	288,006	Nov. 6	280	79	25	555
Bunch, Gilbert H., Lakeville, Ind. Plow-colter	284,810	Sept. 11	805	225	24	1047
Bundy, Frank E., Elmira, N. Y. Hat-holder	275,581	Apr. 10	930	252	23	1393
Bundy, Jeptha, Barnesville, Ohio. Pump-stroke regulator	283,070	Aug. 14	710	199	24	634
Bunker, Augustus S., Lawrence, Mass. Temporary binder	272,028	Feb. 13	552	149	23	548
Bunker, Daniel, Stoddard, N. H. Wash-boiler	273,809	Mar. 13	736	200	23	969
Bunker, Edgar E., Dubuque, Iowa. Stove-grate	273,251	Mar. 6	11	4	23	836
Bunker, Edgar E., Dubuque, Iowa. Fire-box lining	274,169	Mar. 20	1190	328	23	1054
Bunnell & Co, Jesse H. (See Casey, Thomas A., assignor.)						
Bunnell, James F., Cisco, Tex. Insect-trap	280,291	June 26	2058	578	23	2499
Bunte, Hans. (See Schilling and Bunte.)						
Bünzli, Henri, Paterson, N. J. Shedding mechanism for looms	271,033	Jan. 23	1489	429	23	305
Buoy, Dennis, Lancaster, Pa. Counter-scale	277,878	May 22	1672	456	23	1933
Burbank, Abner, Rochester, N. Y. Tobacco-pipe	270,562	Jan. 9	905	261	23	186
Burcey, Charles J. T., Syracuse, N. Y. Wood-distilling apparatus	275,461	Apr. 10	782	209	23	1368
Burch, Albert. (See Beach and Burch.)						
Burch, Smith W., and J. Gilson, Valley Falls, R. I. Spinning-mule	290,742	Dec. 25	1751	484	25	1217
Burchard, Henry M. (See Bier and Rolph, assignors.)						
Burchfield, James R., Sharon, Pa. Lighting buildings by hydrocarbon-lamps	271,412	Jan. 30	1968	509	23	395

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Burckett, William M., Brooklyn, N. Y. Dish-washer	290,528	Dec. 18	1466	405	25	1160
Burd, John W., Jr., St. Louis, Mo. Seal-lock	289,973	Dec. 11	746	211	25	1025
Burdett, Oliver S. (See Robertson and Burdett.)						
Burdick, James M., Ilion, N. Y. Combined mower and tedder	285,792	Oct. 2	14	5	25	5
Burdick, Norman, and J. A. Sandford, Sing Sing, N. Y. Device for forming dovetails for stove-plates	273,252	Mar. 6	13	4	23	837
Burdict Orrin C., Buffalo, N. Y. Bolt-forging machine	285,876	Oct. 2	120	35	25	24
Burdine, William B., assignor of one-third to F. Baltzell, Troy, Ala. Cotton-gin	271,570	Jan. 30	2168	624	23	430
Burditt, William F., St. John, New Brunswick, Canada. Trip mechanism for harvester-rakes	279,702	June 19	1354	377 378	23	2368
Burgan, Elmore Y., Corning, Iowa. Check-rower for corn-planters	278,090	May 22	1920	527	23	1976
Burge, John, Westfield, Mass. Wood-cutter	284,944	Sept. 11	961	270	24	1075
Burgess, Albert C. (See Bradford, Charles W., assignor.)						
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	289,972	Dec. 11	744	210 211	25	1024
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	290,393	Dec. 18	1270	357	25	1127
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	290,394	Dec. 18	1272	357 358	25	1127
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	290,529	Dec. 18	1468	406	25	1160
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	290,848	Dec. 25	1880	519	25	1239
Burgess, Andrew, Owego, N. Y. Magazine fire-arm	290,968	Dec. 25	2042	562	25	1265
Burgess, George W., New York, N. Y. Sewing-machine	277,217	May 8	885	235	23	1783
Burgess, George W., Boston, Mass. Sewing-machine shuttle	278,503	May 29	2417	675	23	2092
Burgess, William H. (See Gray, Walter G., assignor.)						
Burgess, William H., Rich Square, N. C. Cradle	281,966	July 24	2055	563	24	376
Burgess, William J., Everett, Mass. Filter	285,965	Oct. 2	235	66	25	45
Burghardt, August C., Port Deposit, Md. Fire-escape	284,180	Sept. 4	29	7	24	909
Burghardt, Edward H. (See De Puy and Burghardt.)						
Burgher, Orlando, Poughkeepsie, N. Y. Horse scuffle-hoe	275,462	Apr. 10	783	209	23	1368
Burgtorf, Charles W., Petaluma, Cal. Two-wheeled vehicle	285,793	Oct. 2	15	5	25	5
Burgtorf, Charles W., Petaluma, Cal. Chafe-pad for harness	286,260	Oct. 9	590	161	25	118
Burgtorf, Charles W., Petaluma, Cal. Single harness	290,530	Dec. 18	1470	406	25	1160
Burguyn, William H. S., assignor of one-half to R. A. Dunlop, Richmond, Va. Hand motive power	276,665	May 1	155	40	23	1652
Burk, Howard R., Brooklyn, N. Y. Coloring kerosene-oil	284,811	Sept. 11	806	.....	24	1047
Burk, John J., assignor of one-half to E. M. Jewett, Buffalo, N. Y. Hoop coiling and nailing machine	278,773	June 5	119	33, 34	23	2144
Burk, William E., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Mechanical movement	277,988	May 22	1803	492	23	1955
Burk, William E., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Apparatus or device for punching rubber	278,091	May 22	1922	527	23	1977
Burk, William E., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Holder for spittoons	286,113	Oct. 2	410	112	25	75
Burke, Andrew J., Elm Grove, Ill. Wagon-jack	288,772	Nov. 20	1240	340	25	738
Burke, Edward, Bernard, Iowa. Substitute for crank-motion	275,988	Apr. 17	1448	399	23	1491
Burke, Edward, Bernard, Iowa. Substitute for crank-motion	286,900	Oct. 16	1412	388	25	269
Burke, Isaac S., Providence, R. I. Button or stud	278,395	May 29	2343	640	23	2058
Burke, John T., Nebraska City, Nebr. Electric photographer's retouching-point	285,008	Sept. 18	1052	294 295	24	1098
Burke, Michael, Jr., *et al.* (See Davey, John F., assignor.)						
Burke, Patrick. (See Dodsworth and Burke.)						
Burket, William, Etna Green, Ind. Device for excavating and moving dirt, &c	277,455	May 15	1169	314	23	1840
Burket, William, Etna Green, Ind. Excavator and grapple	283,963	Aug. 28	1807	511	24	852
Burkhard, Adam, Philadelphia, Pa. Two-wheeled vehicle	275,133	Apr. 3	335	92	23	1284
Burkhard, John P., and F. Novotny, St. Paul, Minn. Breech-loading gun	288,618	Nov. 20	1042	287 288	25	704
Burkhard, John P., and F. Novotny, St. Paul, Minn. Safety-lock for fire-arms	288,619	Nov. 20	1046	288	25	705
Burkhard, Thomas, Brooklyn, N. Y. Candy-heater	287,621	Oct. 30	2350	634	25	456
Burkhardt, Conrad G., Chicago, Ill. Door-latch	277,879	May 22	1673	456	23	1933
Burkhardt, Gottlieb F., Boston, Mass. Furnace	284,181	Sept. 4	31	8	24	910
Burkhardt, Henry, Chicago, Ill. Drawbar for cars	271,216	Jan. 30	1717	497	23	351
Burkholder, John, Centreburg, Ohio. Grain-cleaner	272,205	Feb. 13	770	213	23	585
Burks, Jesse H., Los Angeles, Cal. Fire-escape	288,304	Nov. 13	637	174	25	627
Burleigh, John, Lawrence, Mass. Spring-seat for vehicles	290,743	Dec. 25	1753	484	25	1217
Burley, George H., Tyrone, Pa. Valve for steam-engines	281,665	July 24	1664	454	24	308
Burling, Benjamin H., assignor to himself and J. Cunningham, Fort Ann, N. Y. Steam propelling-rudder	284,812	Sept. 11	806	225	24	1047
Burlingame, Olive R., Boston, Mass. Foot-rest for piano-stools	280,907	July 10	701	197	24	130
Burlingame, William, Exeter, N. H. Hot-water heating apparatus	280,908	July 10	702	198	24	131
Burlingame, William, Exeter, Mass. Sectional steam-generator	271,031	Jan. 23	1488	429	23	304
Burlington Plow Company. (See Neff, Joseph B., assignor.)						
Burnam, James H., Fayetteville, Tenn. Two-room-heating fire back and frame	287,230	Oct. 23	1841	503	25	352
Burnell, Oscar W., Dorrance, Kans. Wind-locomotive	271,784	Feb. 6	242	68	23	483
Burnes, John C., Hopkins, Minn. Band-cutter	275,463	Apr. 10	783	210	23	1368
Burnet, William B. (See Erb, John C., assignor.)						
Burnet, William H., Newark, N. J., assignor to J. Yereance, New York, N. Y. Steam-superheater	278,311	May 29	2233	612	23	2038
Burnett, Edward. (See Browne, Alexander P., assignor.)						
Burnett, Edward, Southborough, assignor to himself and A. P. Browne, Boston, Mass. Stopper for liquid-containing vessels	281,611	July 17	1591	435	24	290
Burnett, Edward, Southborough, assignor to himself and A. P. Browne, Boston, Mass. Truck	281,612	July 17	1592	435	24	290
Burnett, Isaac, and J. E. Clifton, Geneseo, Ill. Coal-chute	270,736	Jan. 16	1131	324	23	236
Burnett, James H., Philadelphia, Pa. Setting for range-boilers	287,231	Oct. 23	1842	503 504	25	353
Burnett, James H., Newark, N. J. Machine for cutting oval gaskets	287,503	Oct. 30	2179	591 592	25	423
Burnett, John, *et al.* (See Dougherty, Michael J., assignor.)						
Burnett, John M., Independence, assignor to J. W. Concher, Dubuque, Iowa. Milk and cream gage	273,947	Mar. 13	910	248	23	997
Burnham, Alfred S., Parkersburg, Iowa. Sofa-bed	278,870	June 5	270	78	23	2169
Burnham, Daniel W. (See Bulley and Burnham.)						
Burnham, George, *et al.* (See Wilder and Parry, assignors.)						
Burnham, Joseph. (See Wiggin, George B., assignor.)						
Burnham, L. G., *et al.* (See Hewson, William S., assignor.)						
Burnham, Lycurgus, Somerville, Mass. Egg-beater	277,218	May 8	886	236	23	1784

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Burnham, Lycurgus, Somerville, Mass. Egg-beater	277,219	May 8	887	236	23	1784
Burnham, Nathan F., York, Pa. Cut-off mechanism for steam-engines	274,559	Mar. 27	1713	476	23	1151
Burnham, Nathan F., York, Pa. Turbine wheel	274,884	Mar. 27	2102	584, 585	23	1219
Burnham, Oliver G., Chicago, Ill. Lard-cooler	287,362	Oct. 23	2001	545	25	382
Burnham, Oliver G., Chicago, Ill. Lard-cooler	289,809	Dec. 11	544	152	25	988
Burnison, Sim, Algansee, Mich. Spittoon	285,566	Sept. 25	1714	484	24	1222
Burns, Alexander B. (See Creecy and Burns.)						
Burns, Daniel R., Dayton, Ohio, assignor to himself and A. L. Jackson, Washington, D. C. Straight-way valve	270,009	Jan. 2	217	63	23	45
Burns, Frank, Westfield, N. Y. Bottle stopper and fastener	289,215	Nov. 27	1778	493	25	842
Burns, Frank W., and W. Malick, Erie, Pa., assignors to said Burns. Mop-holder	270,930	Jan. 23	1366	394	23	285
Burns, Gerrone W., Indianapolis, Ind. Cigar-cutter	282,155	July 31	2306	633	24	423
Burns, Hugh A., Ansonia, Conn. Electric battery	284,605	Sept. 11	545	154	24	1003
Burns, Jabez, Brooklyn, N. Y. Mixing-machine	279,328	June 12	896	250	23	2285
Burns, Jabez, Brooklyn, N. Y. Coffee-roaster	279,329	June 12	897	250	23	2285
Burns, James, Chicago, Ill. Club-foot apparatus	282,491	Aug. 7	14	4	24	503
Burns, James, Brooklyn, and A. Buckman, Schodack Depot, assignors of part to J. S. Baker, A. L. Schermerhorn, Stuyvesant, J. R. Downe, and F. P. Harder, Castleton, N. Y. Cigarette-machine. (Reissue)	10,428	Dec. 18	1627	447, 448	25	1188
Burns, Robert E., San Francisco, Cal. Cooking-stove	290,316	Dec. 18	1173	328	25	1109
Burns, Samuel A., *et al.* (See Preston, James, assignor.)						
Burns, Thomas, Brooklyn, N. Y. Extinguisher for lamp-burners	270,631	Jan. 16	995	287	23	211
Burnside, William J., Hilcot Court Road, Lower Norwood, county of Surrey, England. Printing-telegraph	273,810	Mar. 13	737	200	23	969
Burnworth, Hezekiah J., Kimbolton, Ohio. Cutter-bar	284,813	Sept. 11	807	225	24	1047
Burr, Andrew J., Olympia, Wash. Ter. Roller-dredge	273,021	Feb. 27	1823	511	23	780
Burr, Annie E., administratrix. (See Burr, H. Jerome.)						
Burr, Brown & Co. (See Remington, John O., assignor.)						
Burr, Daniel, assignor of one-half to A. Pullen, Milford, Del. Apparatus for drying and conserving fruit	288,973	Nov. 27	1485	411	25	790
Burr, Edward H., *et al.* (See Bott, Joseph E., assignor.)						
Burr, F. S., *et al.* (See Fuller, Willard M., assignor.)						
Burr, George S. (See Doyle and Burr.)						
Burr, H. Jerome, deceased, Bloomfield, (A. C. Burr, administratrix,) assignor to W. E. Simonds, Hartford, Conn. Hardening iron	280,716	July 3	452	.....	24	81
Burr, James B., Bayshore, N. Y. Horseshoe	271,217	Jan. 30	1718	497	23	351
Burr, Lewis, San Antonio, Tex. Cotton-bale binder	277,220	May 8	887	236	23	1784
Burr, Sanford S. (See Miller, Albert F., assignor.)						
Burr, Sanford S., Winnetka, Ill. Interconvertible crib and table	274,716	Mar. 27	1696	529	23	1184
Burrage, John H., Concord, N. C. Bee-hive	279,656	June 19	1533	428	23	2399
Burrell, John B., Fall River, Mass. Shaft-tug	270,931	Jan. 23	1367	394	23	285
Burrell, John H., Jr. (See Metzler and Burrell.)						
Burrichter, Herman C. (See Ryrie, Robert A., assignor.)						
Burridge, Thomas H., assignor of one-third to W. L. Reynolds, St. Louis, Mo. Apparatus for purifying iron	274,717	Mar. 27	1898	529	23	1185
Burridge, Thomas H., assignor of one-third to W. L. Reynolds, St. Louis, Mo. Apparatus for making Bessemer steel	277,831	May 15	1607	439	23	1916
Burris, Micajah E., Brooklyn, N. Y. Vehicle-axle	271,571	Jan. 30	2168	625	23	430
Burris, Micajah E., Brooklyn, N. Y. Vehicle-axle	273,458	Mar. 6	282	76	23	882
Burris, Micajah E., Brooklyn, N. Y. Vehicle-axle	278,396	May 29	2344	641	23	2058
Burris, Micajah E., Brooklyn, N. Y., and C. E. Staniels, assignors to E. F. Staniels, East Concord, N. H. Foot rest	277,880	May 22	1674	457	23	1933
Burritt, Albert M., assignor to A. Burritt Hardware Company, Waterbury, Conn. Fire-extinguisher alarm apparatus	270,010	Jan. 2	218	63	23	45
Burritt, Albert M., assignor to A. Burritt Hardware Company, Waterbury, Conn. Fire-extinguisher	270,011	Jan. 2	220	63	23	45
Burritt Hardware Company, A. (See Burritt, Albert M., assignor.)						
Burritt Hardware Company, A. (See Castle, Lewis D., assignor.)						
Burritt, Harvey H., Newark, N. J. Air-engine	278,397	May 29	2345	641	23	2058
Burroughs, D. R. (See Cook, Emmanuel T., assignor.)						
Burroughs, William S., *et al.* (See Heavern, William H., assignor.)						
Burrows, Frank, Washington, D. C. Door-securer	288,920	Nov. 20	1415	390	25	771
Burrows, William T., East Dubuque, Ill. Device for handling spooled barbed wire	290,969	Dec. 25	2044	562	25	1266
Burrows, William T., assignor of two-thirds to A. G. Children, East Dubuque, Ill. Center for wire-barbing machines	289,750	Dec. 4	476	134	25	970
Burruss, John C., Carrollton, Ill. Lifting-jack	270,012	Jan. 2	221	63	23	46
Burson, Amos, East Palestine, Ohio. Safety-bar attachment for vehicle-poles	277,676	May 15	1430	386	23	1883
Burson, William W., Rockford, Ill. Grain-binder	273,811	Mar. 13	738	200, 201, 202	23	969
Burson, William W., Rockford, Ill. Cord-knotting apparatus for grain-binders	273,812	Mar. 13	744	202, 203	23	970
Burt, Frank C., Columbus, Ohio. Window-cornice	273,459	Mar. 6	283	77	23	882
Burt, George E., Harvard, Mass. Chain-link for horse-powers	283,751	Aug. 28	1556	439	24	807
Burt, J. Bins, *et al.* (See Zinsmaier and Burt, assignors.)						
Burt, John, Detroit, Mich. Charcoal-furnace	276,222	Apr. 24	1734	480	23	1548
Burt, Merritt. (See Zinsmaier and Burt.)						
Burt, Ransom K., Marshalltown, Iowa. Tug-buckle	282,267	July 31	2446	673	24	447
Burton, Augustus I., New York, N. Y. Necktie or cravat holder	278,871	June 5	271	78	23	2169
Burton, George D., New Ipswich, N. H. Roller-skate	271,785	Feb. 6	243	68	23	483
Burton, George D., New Ipswich, N. H. Spittoon for railway-cars and similar places	272,206	Feb. 13	771	213	23	585
Burton, George D., New Ipswich, N. H. Roller-skate	279,220	June 12	756	208	23	2262
Burton, George D., New Ipswich, N. H. Electric-lamp globe	282,157	July 31	2308	633	24	423
Burton, George D., New Ipswich, N. H. Apparatus for lighting cars by electricity	282,158	July 31	2309	634	24	423
Burton, George D., New Ipswich, N. H. Stock-car	284,116	Aug. 28	2021	562	24	888
Burton, George D., New Ipswich, N. H. Fare-register	284,375	Sept. 4	261	73	24	948
Burton, George D., New Ipswich, N. H. Waiter or tray	285,386	Sept. 25	1506	423	24	1184
Burton, George D., New Ipswich, N. H., assignor of one-half to S. A. Travis, Boston, Mass. Apparatus for drawing liquids	275,134	Apr. 3	336	93	23	1284
Burton, George D., Boston, Mass. Roller-skate	282,156	July 31	2307	633	24	423
Burton, George D., and J. M. Holden, Boston, Mass. Stock-car	274,458	Mar. 27	1570	430	23	1128
Burton, George F., Eau Claire, Wis. Adjustable roller-frame for edgers	283,752	Aug. 28	1557	439	24	807
Burton, George F., Springfield, Ohio. Cover for filters and percolators	284,606	Sept. 11	546	155	24	1003

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Burton, Joseph, New York, assignor to W. N. Milsted, Brooklyn, and W. H. Down, New York, N. Y. Lubricating gas-meter shafts	282,610	Aug. 7	162	49	24	529
Burton, Joseph, assignor to W. H. Down, New York, and W. N. Milsted, Brooklyn, N. Y. Gas-burner for heating purposes	284,814	Sept. 11	808	225 226	24	1047
Burton, Matthew, Batavia, Ill. Oil-can	271,032	Jan. 23	1489	429	23	305
Burton, Matthew, Batavia, Ill. Pump attachment for oil-cans	275,683	Apr. 17	1329	366	23	1469
Burwell, Edward L., Chelsea, Mass. Book	285,794	Oct. 2	16	5	25	5
Bury, Richard A., and R. M. Bidelman, Adrian, Mich. Device for burning crude petroleum	283,465	Aug. 21	1207	389	24	730
Busch, George W. (See Crongeyer, Charles A., assignor.)						
Buschick, Gustavus E., assignor of one-half to C. E. Gregory, Chicago, Ill. Furnace	277,407	May 8	1101	296	23	1822
Buschor, Charles, and S. Zweighaft, Philadelphia, Pa. Jeweler's show-window	280,345	July 3	9	3	24	4
Buse, Bernard E., St. Louis, Mo. Cosmetic wash	277,221	May 8	888	.....	23	1784
Busell, James H. (See Orcutt, William D., assignor.)						
Busell, James H., Boston, Mass. Heel-trimming machine	270,632	Jan. 16	996	288	23	211
Busell, James H., Boston, Mass. Rotary cutter	270,633	Jan. 16	998	288	23	211
Busell, James H., Boston, Mass. Heel-trimming machine	280,717	July 3	453	130	24	81
Bush, Arthur W., Boulder, assignor to C. W. Little, Denver, Colo. Watch-maker's tool	281,967	July 24	2056	563	24	377
Bush, Arthur W., assignor of one-half to G. S. Gibson, I. L. Bond, and F. J. Whitney, Boulder, Col. Treadle-power	289,216	Nov. 27	1779	493	25	843
Bush, Donald S., *et al.* (See Gibney, James N., assignor.)						
Bush, Edward W., Armstrong, Mo. Washing-machine	289,615	Dec. 4	301	84	25	941
Bush, George W., and H. H. Wilzin, New York, N. Y. Monument	275,464	Apr. 10	784	210	23	1368
Bush, Grant A., Clear Lake, Iowa. Fountain	286,261	Oct. 9	590	162	25	118
Bush, Henry J., Westfield, Mass. Whip	288,305	Nov. 13	638	175	25	627
Bush, Ira I., Janesville, Wis. Ice-creeper	276,156	Apr. 24	1657	457	23	1534
Bush, Isaac, St. Louis, Mo. Overalls and drawers	280,444	July 3	134	36	24	25
Bush, James J., Tacoma, Wash. Ter. Vehicle-wheel	283,563	Aug. 21	1323	370	24	751
Bush, Philo P. (See Bodell, Allen W., assignor.)						
Bush, Roderick U., *et al.* (See Gibney, James N., assignor.)						
Bush, Wesley C., Brooklyn, N. Y. Fire-escape ladder	275,135	Apr. 3	337	93	23	1284
Bush, Wesley C., Brooklyn, N. Y. Flexible fire-escape ladder	277,222	May 8	888	236	23	1784
Bush, William H., *et al.* (See Gibney, James N., assignor.)						
Bushell, William, and W. T. Haydon, Dovet, county of Kent, England. Expressing oil from seed and manufacture of oil-cakes therefrom	279,330	June 12	898	251	23	2285
Bushey, Joseph, and R. Woodcock, Detroit, Mich. Roofing compound	273,948	Mar. 13	911	.....	23	997
Bushfield, Samuel B., Denver, Colo. Apparatus for generating and carbureting hydrogen gas	282,492	Aug. 7	15	4	24	503
Bushfield, Samuel B., assignor of five-eighths to R. E. Watson, W. J. Swift, and C. R. Stapp, Denver, Colo. Coffee compound	274,438	Mar. 20	1534	.....	23	1114
Bushman, David, Quincy, Cal. Rotary crusher	277,543	May 15	1273	341	23	1857
Bushnell, George H. and O. P., Worcester, Mass. Press	285,108	Sept. 18	1173	329	24	1119
Bushnell, Orsamus, assignor to himself and F. Overbury, Brooklyn, N. Y. Combined scraper and brush	272,110	Feb. 13	671	183	23	568
Bushnell Orsamus, assignor to himself and F. Overbury, Brooklyn, N. Y. Box in imitation of a cigar	282,159	July 31	2310	634	24	424
Bushnell, Orsamus, assignor to himself and F. Overbury, Brooklyn, N. Y. Slate-cleaner	284,537	Sept. 4	461	131	24	982
Bushnell, Oscar P. (See Bushnell, George H. and O. P.)						
Bushnell, William B., Chicago, Ill. Ice-machine	285,460	Sept. 25	1594	448	24	1199
Bushong, Joseph L., Oskaloosa, Iowa. Washing-machine	288,543	Nov. 13	949	260	25	681
Bushorr, Dorrick J., assignor of one-half to E. Kinsley, Rockton, Ill. Machine for marking linear measurements on fabrics	279,078	June 5	570	157	23	2221
Buskirk, Theodor. (See Blomquist and Buskirk.)						
Buskirk, Theodore. (See Shoupe and Buskirk.)						
Buss, Charles, Grand Rapids, Mich. Gage for cutter-head knives	273,022	Feb. 27	1824	511	23	781
Busse, George. (See Schoenfeld, Louis, assignor.)						
Busse, Paul, Baltimore, Md. Envelope	271,413	Jan. 30	1969	569	23	396
Busser, W. H., *et al.* (See Wood, John M., assignor.)						
Busteed, Richard, Brooklyn, N. Y. Telephone-cabinet	282,841	Aug. 7	438	123	24	577
Bustin, John H., assignor of three-fourths to C. H. Duell, E. Laass, and G. W. Hey, Syracuse, N. Y. Two-wheeled vehicle	283,698	Aug. 21	1477	416	24	781
Butcher, Joseph, Providence, R. I. Cyclometer	270,737	Jan. 16	1132	325	23	236
Butel, Alexander H., Bridgeport, Conn., assignor of one-half to R. W. Fryer, Independence, Iowa. Apparatus for extracting grease from wool	276,349	Apr. 24	1906	529	23	1576
Butler, Calvin L., Greenfield, Mass. Carving-fork	278,398	May 29	2346	641	23	2058
Butler, Charles A., Moriah, N. Y. Apparatus for boiling sap	271,786	Feb. 6	244	68	23	483
Butler, Edwin, Toulon, Ill. Motion-converting mechanism	285,223	Sept. 18	1308	368	24	1143
Butler, Eli T., Hamilton, Ohio. Roller-mill	281,237	July 17	1123	309	24	212
Butler, Francis G., West Hartford, Conn., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Milk-setting apparatus. (Reissue)	10,357	July 17	1651	450	24	300
Butler, George W. (See Searles, Charles P., assignor.)						
Butler, Horace, Ludington, Mich. Skidding-machine	288,306	Nov. 13	639	175	25	627
Butler, James M., Danville, Ohio. Vegetable-cutter	275,136	Apr. 3	339	93	23	1284
Butler, Jay F., Brooklyn, and U. McClinchie, New York, N. Y. Canopy-support for children's carriages	275,582	Apr. 10	930	253	23	1393
Butler, Jay F., Brooklyn, and U. McClinchie, New York, N. Y. Combined rocking-chair and hobby-horse	275,583	Apr. 10	932	253	23	1393
Butler, John G., Watertown, Mass. Projectile	290,970	Dec. 25	2045	562	25	1266
Butler, Joseph, Kennon, Ohio. Coke-oven	289,887	Dec. 11	647	180	25	1006
Butler, Joseph C., De Kalb, Ill. Windmill	272,525	Feb. 20	1184	331	23	662
Butler, Nathan C., Leipsic, Ohio. Automatic water alarm and regulator	278,872	June 5	272	78	23	2169
Butler, Nathan C., Leipsic, Ohio. Fire-kindler	285,009	Sept. 18	1053	295	24	1099
Butler, Orlando W., and T. W. Kelley, Brooklyn, N. Y. Paper for cards and circulars	273,023	Feb. 27	1826	511	23	781
Butler, Reese H., W. C. Mount, Gainesville, and J. W. Alexander, Atlanta, Ga. Cam for stamp-mills	276,350	Apr. 24	1907	529	23	1576
Butler, Theodore, Cleveland, Ohio. Spring-hinge	277,881	May 22	1675	457	23	1934
Butler, Theodoro H., G. W. Earhart, and W. M. Crawford, Columbus, Ohio. Bretzel-cutter	274,264	Mar. 20	1312	362	23	1076
Butler & Ward. (See Ward, Eugene, assignor.)						
Butler, William E., Union, Iowa. Wheel-cultivator	276,766	May 1	310	80	23	1679
Butler, William J., Salinas, assignor of one-half to R. H. Hall, San Francisco, Cal. Arm-rest	281,338	July 17	1247	346	24	231
Butler, William S. (See Duchemin, William, assignor.)						
Butler, Zebulon, Wilkes-Barré, Pa. Stone-working machine	288,544	Nov. 13	950	260	25	681
Butman Furnace Company. (See Butman, Thomas R., assignor.)						
Butman, Thomas R., Cleveland, Ohio. Steam-boiler setting and furnace	279,331	June 12	900	252	23	2286

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Butman, Thomas R., Cleveland, Ohio. Heater and filter for steam-boilers	280,013	July 10	831	231	24	154
Butman, Thomas R., Cleveland, Ohio. Feed-water heater	281,014	July 10	833	232	24	154
Butman, Thomas R., assignor to Butman Furnace Company, Cleveland, Ohio. Furnace-door	273,813	Mar. 13	746	203	23	970
Butt, Bozwell B., Richmond, Va. Right-angled level	283,564	Aug. 21	1325	370	24	751
Butterfield, John C., Chicago, Ill. Power-hammer	285,387	Sept. 25	1506	423	24	1184
Butterfield, John C., Chicago, Ill. Stamp-mill	285,388	Sept. 25	1507	424	24	1184
Butterfield, John C., Chicago, Ill. Atmospheric hammer	285,389	Sept. 25	1509	424	24	1184
Butterfield, John C., Chicago, Ill. Atmospheric hammer	285,390	Sept. 25	1510	424	24	1185
Butterfield, John C., Chicago, Ill. Mortar for stamp-mills	285,391	Sept. 25	1510	425	24	1185
Butterfield, John C., Chicago, Ill. Lock-nut	290,849	Dec. 25	1882	520	25	1240
Butterfield, John C., Chicago, Ill. Atmospheric hammer	290,850	Dec. 25	1883	520	25	1240
Butterfield, Nathaniel, Monroe, Wis. Roof	274,265	Mar. 20	1313	362	23	1076
Butterfield, Reuben J. (See Hastings, E. Warren, assignor.)						
Butterfield, Rodney, Chicago, Ill. Last-block fastener	270,013	Jan. 2	222	64	23	46
Butterfield, William, Boston, Mass. Shutter-bower	285,795	Oct. 2	17	5	25	5
Butterweck, Otto C., St. Louis, Mo. Toy pistol	270,738	Jan. 16	1134	325	23	237
Butterweck, Otto C., St. Louis, Mo. Toy pistol	279,128	June 12	657	180	23	2246
Butterworth, Benjamin. (See Davis, Daniel L., assignor.)						
Butterworth, Charles C., *et al.* (See Mackinney, William C., assignor.)						
Butterworth, James, *et al.* (See Mackinney, William C., assignor.)						
Butterworth, William B., *et al.* (See Mackinney, William C., assignor.)						
Buttlear, William. (See Willetts and Buttlear.)						
Buttner, Henry A., San Quentin, Cal. Sealing envelopes	281,448	July 17	1391	382	24	257
Button, Alphonzo, Grand Rapids, Mich. Grocer's scoop	282,493	Aug. 7	16	4	24	504
Button, Miladore A., El Dorado, Kans. Windmill	275,137	Apr. 3	339	93	23	1284
Button, W. G. (See Cardwell, George A., assignor.)						
Buttrick, Charles G., and T. B. Flanders, Holyoke, Mass. Bearing for spindles	285,461	Sept. 25	1595	448	24	1200
Buttrick, Charles G., and T. B. Flanders, Holyoke, Mass. Spindle-bolster	289,971	Dec. 11	742	210	25	1024
Butts, Austin C., Groveston, N. J. Glove	290,664	Dec. 25	1640	451	25	1196
Butzbach, Edward, Evanston, Ill. Wash-board	277,109	May 8	757	199	23	1761
Buzzini, Salvatore J., New York, N. Y. Fire-arm	284,815	Sept. 11	810	226	24	1048
Byar, Lewis N., Pottstown, Pa. Window-grating	284,117	Aug. 28	2022	562 563	24	888
Byard, Washington I., assignor to himself, M. W. Briggs, and G. A. Oppel, Little Falls, N. Y. Car-coupling	282,438	July 31	2672	732	24	487
Byerley, Francis X., Cleveland, Ohio. Process of and apparatus for extracting oil and other substances from seeds and other materials	275,989	Apr. 17	1449	399	23	1491
Byers, Eli A., Birmingham, Iowa. Hay elevator and carrier	271,218	Jan. 30	1719	498	23	351
Byers, Joseph, Newtonville, and G. Taylor, Everett, Mass. Automatic elevator-hatchway guard	276,767	May 1	311	81	23	1680
Byington, A. Homer. (See Northrup, Israel H., assignor.)						
Byrkett, Ahijah R., Troy, Ohio. Earth-scraper	273,253	Mar. 6	14	4	23	837
Byrkett, Ahijah R., Troy, Ohio. Wheel or pulley	289,335	Nov. 27	1923	534	25	871
Byrkett, Ahijah R., assignor to Champion Scraper Company, Troy, Ohio. Earth-scraper. (Reissue)	10,370	Aug. 21	1532	432	24	791
Byrkit, Archibald R., Fairfield, Iowa. Book-rest	289,384	Dec. 4	14	5	25	889
Byrne, John J., Chicago, Ill. Adjusting mechanism for calipers	279,534	June 19	1162	322	23	2335
Byrne, Mary A., New York, N. Y. Toilet-case	283,071	Aug. 14	711	200	24	634
Byrnes, Joseph, assignor of two-thirds to J. Stanson and J. Hollowed, Chicago, Ill. Bottle-stopper	282,953	Aug. 14	568	161	24	608
Byrnes, Thomas F., Emporia, Kans. Strap for overshoes	282,954	Aug. 14	569	161	24	608
Byrnes, Thomas W., Manitowoc, Wis. Apparatus for drafting garments	282,842	Aug. 7	438	124	24	577
Byrns, Isaac N. (See Eccles, William M., assignor.)						
Byron, Edward L., Compton, Quebec, Canada. Vegetable-cutter	283,466	Aug. 21	1208	339	24	730
Byron, Thomas F., Lowell, Mass. Car-coupling	277,677	May 15	1431	386	23	1883
Cabell, Flora B. (See Cabell, Samuel G., assignor.)						
Cabell, Milton S., assignor of one-half to W. Schaefer, Quincy, Ill. Lubricator for engine-slides	289,066	Nov. 27	1601	443	25	810
Cabell, Milton S., assignor of one-half to W. Schaefor Quincy, Ill. Lubricator	289,688	Dec. 11	648	180	25	1006
Cabell, Samuel G., assignor to F. B. Cabell, Washington, D. C. Lubricator	283,860	Aug. 28	1680	475	24	828
Cable, John A., St. Louis, Mo. Apparatus for separating gold	274,083	Mar. 13	1073	296	23	1026
Cable, Richard V., Poughkeepsie, N. Y. Corset	270,739	Jan. 16	1135	325 326	23	237
Cade, Baylus, Scott's Depot, W. Va. Car-coupling	272,643	Feb. 20	1339	376	23	690
Cade, George, assignor of one-half to H. P. Miller, Milan, Tenn. Nut-lock	271,414	Jan. 30	1970	569	23	396
Cadigon, Edward, assignor to himself and A. B. Mole, Adams, Mass. Beamer	278,873	June 5	273	79	23	2170
Cadwell, Alexander, Petaluma, Cal. Harness-buckle	276,223	Apr. 24	1736	480	23	1548
Cady, D. Lawton, Holly, Mich. Weather-strip	282,160	July 31	2311	634	24	424
Cady, Frank E. (See Hall, Edward C., assignor.)						
Caesar, Julius, New York, N. Y. Enameled letter for signs	273,024	Feb. 27	1827	511	23	781
Caffall, Robert M., Philadelphia, Pa. Treating waterproofed building material	275,327	Apr. 3	567	.....	23	1322
Cage, George A., *et al.* (See Freeman, Walter F., assignor.)						
Cage, George A., Mincola, Tex. Car-coupling	279,332	June 12	903	252	23	2286
Cagle, Alexander W., Hollywood, assignor of one-half to A. C. Rhodes, Little Rock, Ark. Log-wagon	275,016	Apr. 3	173	47	23	1355
Cagney, Timothy J., assignor to Sheldon & Co., New York, N. Y. Book-binding	277,456	May 15	1170	314	23	1840
Cahill, John T., and L. Mangold, Chattanooga, Tenn. Service-pipe box	279,703	June 19	1356	378	23	2369
Cahn, Levi F., New York, N. Y. Snap for neck-chains	275,584	Apr. 10	933	253	23	1394
Cahoone, Edwin R. (See Bea, John H., Jr., assignor.)						
Caillat, Louis D., Paris, France. Manufacture of pasteboard boxes	270,740	Jan. 16	1136	326	23	237
Cain, Andrew C. W., Pittsburg, Pa. Wooden half-sole for boots or shoes	273,460	Mar. 6	284	77	23	882
Cain, Ephraim D., Winigan, Mo. Car-coupling	273,949	Mar. 13	911	249	23	997
Cain, Harry, assignor of one-half to C. H. Mickel, Bridgeton, N. J. Fruit-jar	279,535	June 19	1163	322	23	2335
Cain, John, Pittsburg, Pa. Apparatus for drilling wells	285,010	Sept. 18	1054	295	24	1099
Caine, Robert E., Battle Creek, Mich. Salt-box	286,384	Oct. 9	761	206	25	148
Cajar, Friederich, New York, N. Y. Pipe-wrench	270,741	Jan. 16	1137	326	23	237
Calahan, Edward A. (See Delany, Patrick B., assignor.)						
Calahan, Edward A., Brooklyn, and P. B. Delaney, New York, N. Y., assignors to Standard Electric Manufacturing Company. Multiplex telegraph	281,339	July 17	1249	346 347 348	24	233
Calder, George, Mill Creek, Utah Ter. Game-table	289,217	Nov. 27	1780	493	25	843
Calder, Robert A. (See Farmer and Calder.)						
Calderwood, Alexander C., Johnstown, N. Y. Glove-finishing apparatus	276,768	May 1	312	81	23	1680

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Caldwell, George R., Troy, N. Y. Wire-cloth for the manufacture of paper, &c	284,273	Sept. 4	143	40	24	928
Caldwell, Henry W., Chicago, Ill. Elevator-bucket	280,909	July 10	703	198	24	131
Caldwell, James S., Angus, Tex. Washing-machine	282,955	Aug. 14	569	161	24	609
Caldwell, John A., Bay Ridge, N. Y. Crane	284,274	Sept. 4	144	40	24	928
Caldwell, John H., Basco, Ill. Gate	276,769	May 1	313	81	23	1680
Caldwell, William C., Chicago, Ill. Sirup-pitcher	280,012	June 26	1728	484	23	2440
Caldwell, William L., Chicago, Ill. Combined blotter, calendar, and rule	282,702	Aug. 7	286	80	24	549
Calef, Joseph W., North Easton, Mass. Pipe cutter and tongs	272,526	Feb. 20	1185	331	23	662
Calef, Joseph W., North Easton, Mass. Wrench	273,461	Mar. 6	285	77	23	882
Caler, John H. (See Small and Caler.)						
Caley, Jeremiah, Brazil, assignor of two-thirds to C. Schrepferman and G. W. Mathis, Clay County, Ind. Adjustable-frame sulky	287,622	Oct. 30	2352	634	25	456
Calhoon, John C., New Brighton, Pa. Truss	282,268	July 31	2447	673	24	447
Calhoun, D. Irving, Weedsport, N. Y. Excavator and loader	278,399	May 29	2347	642	23	2058
Calhoun, D. Irving, Weedsport, N. Y. Car for hoisting and conveying machines	283,964	Aug. 28	1808	512	24	853
Calkins, Henry, Vinton, Iowa. Washing-machine	273,346	Mar. 6	140	39	23	857
Calkins, James B., Pacific, Mo. Car-door fastening	271,415	Jan. 30	1971	569	23	396
Call, Edward B., Peoria, Ill. Cutting and abrading disk	270,384	Jan. 9	670	197	23	140
Call, Libbie A., Oshkosh, Wis. Dress-chart	281,666	July 24	1666	455	24	309
Callahan, Amos, Maryville, Tenn., assignor to himself and W. J. Davis, New York, N. Y. Millstone-driver	271,034	Jan. 23	1491	430	23	305
Callahan, Charles, *et al.* (See Ring and Bradshaw, assignors.)						
Callahan, Cornelius, assignor to American Fire Hose Manufacturing Company, Chelsea, Mass. Coupling for uniting streams from fire-engines	276,131	Apr. 17	1625	447	23	1521
Callahan, Cornelius, assignor to American Fire Hose Manufacturing Company, Chelsea, Mass. Hose	278,312	May 29	2234	612	23	2038
Callahan, James F., Knoxville, Tenn. Millstone-driver	271,572	Jan. 30	2170	625	23	430
Callahan, Russel B., Lansing, Mich. Sash-holder	280,445	July 3	135	36	24	25
Callan, John P., Aurora, Ill. Saddle for vehicle-springs	280,910	July 10	704	198	24	131
Callan, Michael, Jr., Lytle City, Iowa. Check-rower for corn-planters	274,266	Mar. 20	1314	362	23	1076
Callanen, Frank J. (See Beckwith, Samuel H., assignor.)						
Callard, John W., Toledo, Ohio. Filter	281,177	July 10	1039	288	24	190
Callen, Jacob B., *et al.* (See House, Alfred B., assignor.)						
Callow, John J., Cleveland, Ohio. Stencil-plate for graining	280,446	July 3	135	37	24	25
Calver, Timothy, Portsmouth, Ohio. Force-pump	288,007	Nov. 6	280	79	25	555
Calver, Timothy, Portsmouth, Ohio, and S. H. Stout, Covington, Ky. Balanced slide-valve	281,015	July 10	834	232	24	155
Calver, William, Washington, D. C. Apparatus for storing and distributing solar heat	290,851	Dec. 25	1884	520	25	1240
Calver, William, Washington, D. C. Water-lens for solar heaters	290,852	Dec. 25	1886	520	25	1240
Calvert, Callender I., Philadelphia, Pa. Sod transplanter and cutter	284,720	Sept. 11	695	195	24	1028
Calvert, William H., *et al.* (See Heaverin, William H., assignor.)						
Calvin, John J., *et al.* (See Moore and Heaberlin, assignors.)						
Cameron, Allen P., *et al.* (See Pavey, Samuel, assignor.)						
Cameron, Arthur, Kalamazoo, and C. E. Russell, Grand Rapids, Mich. Car-step	280,129	June 26	1865	526	23	2465
Cameron, George H., Oshkosh, Wis. Saw-mill dog	282,048	July 31	2155	591	24	399
Cameron, James W., assignor to J. H. Roberts, E. Seymour, and J. B. Hyde, New York, N. Y. Button-hole attachment for sewing-machines	272,527	Feb. 20	1186	331, 332	23	662
Cameron, Joseph, Cynthiana, Ohio. Harrow	274,267	Mar. 20	1315	363	23	1076
Camp, Bushrod H. (See Camp, Wallace H., assignor.)						
Camp, Edward E., *et al.* (See Angel, Joseph R., assignor.)						
Camp, Hiram, assignor to New Haven Clock Company, New Haven, Conn. Clock-bell	278,874	June 5	273	79	23	2170
Camp, John C. (See Merritt, Wiley, assignor.)						
Camp, Joseph D., East Randolph, Vt. Method of and apparatus for separating apple-seed from pomace	280,130	June 26	1866	526	23	2465
Camp, Louis F., *et al.* (See Angel, Joseph R., assignor.)						
Camp, Mortimer M., New Haven, Conn., assignor to Indestructible Water Pipe Company, of New York. Pipe-coupling	283,072	Aug. 14	712	200	24	634
Camp, Thomas, Covington, Ga. Cotton-gin	277,223	May 8	889	237	23	1784
Camp, Wallace H., Waterbury, Conn., assignor of one-half to B. H. Camp, Boston, Mass. Lock for post-office boxes	280,718	July 3	454	130	24	81
Camp, Wallace H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Key-rack	287,623	Oct. 30	2352	634	25	456
Campbell, Alanson, *et al.* (See Vincent, John, Jr., assignor.)						
Campbell, Alexander H., Waynesborough, Pa. Key-seat-milling machine	274,906	Apr. 3	17	5	23	1230
Campbell, Allen G. (See Chambers, Daniel T., assignor.)						
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Mechanism for operating the beds of printing-presses	274,560	Mar. 27	1715	476	23	1151
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Variable bed-motion for printing-machines	278,875	June 5	274	79, 80	23	2170
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Face-cloth for printing-presses	279,129	June 12	658	180	23	2246
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Printer's inking and distributing roller	280,447	July 3	136	37	24	26
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Grinding-machine	282,049	July 31	2156	591, 592	24	399
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Mounting form-rollers for printing-presses	282,956	Aug. 14	570	161	24	609
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Printing-press	283,201	Aug. 14	870	243	24	662
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Mechanism for shifting the angle-rollers of printing-presses	284,607	Sept. 11	548	155	24	1003
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Printer's inking-roller	285,011	Sept. 18	1057	296	24	1099
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Sliding bearer for beds of printing-presses	286,997	Oct. 23	1538	424	25	296
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Oscillating-cylinder printing-machine	289,810	Dec. 11	546	152, 153	25	988
Campbell, Andrew J., New York, N. Y. Fire-proof floor	289,218	Nov. 27	1781	493	25	843
Campbell, Angus K., Newton, Iowa. Apparatus for heating and ventilating rooms	275,585	Apr. 10	934	254	23	1394
Campbell, Bryant D., assignor to Patent Flue Thimble Company, Richmond, Ind. Stove-pipe fastener	275,586	Apr. 10	935	254	23	1394
Campbell, Charles, Binghamton, N. Y., assignor of one-half to S. L. Wilsey, Manson, Iowa. Ironing-table	275,753	Apr. 10	1157	317	23	1431
Campbell, Charles B., Buffalo, N. Y. Roller-mill	272,644	Feb. 20	1340	376	23	690
Campbell, Charles C., Cincinnati, Ohio. Driving-belt	277,678	May 15	1432	386	23	1884

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Campbell, Charles L., and M. T. Martin, Chicago, Ill. Machine for manipulating cards or tickets for creating value	290,395	Dec. 18	1274	358	25	1127
Campbell, David, *et al.* (See Schilling, William, assignor.)						
Campbell, Elijah W. (See Campbell, Solon O., assignor.)						
Campbell, Frank E., Piqua, Ohio. Combined leg and clasp for folding lounges	279,536	June 19	1164	322	23	2335
Campbell, Franklin P., assignor to himself and T. E. Hayes, Bloomfield, N. J. Adjustable eaves-trough bracket	288,307	Nov. 13	640	175	25	628
Campbell, George, Toronto, Ontario, Canada. Forge	285,294	Sept. 18	1309	368	24	1143
Campbell, Gertrude, Chicago, Ill. Monthly-protector	276,770	May 1	314	82	23	1680
Campbell, Henry A., Metuchen, N. J. Steam-condenser	277,457	May 15	1171	315	23	1840
Campbell, Henry F., Concord, N. H. Barrel-hoop-planing machine	272,029	Feb. 13	553	150	23	548
Campbell, Henry F., Concord, N. H. Hoop-preparing mechanism	288,205	Nov. 13	513	143	25	606
Campbell, Henry F., Concord, N. H. Electrical conductor	290,853	Dec. 25	1887	521	25	1241
Campbell, Henry F., Concord, N. H. Electrical cable	290,854	Dec. 25	1888	521	25	1241
Campbell, Henry F., Concord, N. H. Electrical conductor	290,971	Dec. 25	2045	562	25	1266
Campbell, Herbert. (See Crawford, Middleton, assignor.)						
Campbell, Howard. (See Scott and Campbell.)						
Campbell, Howard, assignor to Gaar, Scott & Company, Richmond, Ind. Grain-separator	287,756	Oct. 30	2525	681	25	489
Campbell, James A., Waco, Tex. Oil-can	274,718	Mar. 27	1899	530	23	1185
Campbell, James A., Waco, Tex. Oil-can	287,232	Oct. 23	1843	504	25	353
Campbell, James M., Brushland, N. Y. Fruit-drier	283,202	Aug. 14	874	244	24	662
Campbell, James W., Germantown, N. Y. Window-cornice	273,814	Mar. 13	748	203	23	970
Campbell, James W., Germantown, assignor to H. L. Judd & Co., New York, N. Y. Combined cornice and cornice-pole	281,340	July 17	1252	348	24	234
Campbell, John, San Francisco, Cal. Smelting refractory ores	290,629	Dec. 18	1595	438	25	1181
Campbell, John, Walden, N. Y. Bench-plane	271,219	Jan. 30	1721	498	23	351
Campbell, John, Walden, N. Y. Cooking-utensil	284,608	Sept. 11	549	155, 156	24	1003
Campbell, John, Walden, N. Y., assignor to Stanley Rule and Level Company, New Britain, Conn. Bench-plane. (Reissue)	10,394	Oct. 23	2049	557	25	390
Campbell, Joseph. (See Raymond, Seymour, assignor.)						
Campbell, Malcolm, Holyoke, Mass. Adjustable hinge	279,857	June 19	1534	429	23	2399
Campbell, Mark, Chicago, Ill. Hair rooter, knitter, and hackle	281,834	July 24	1891	516	24	349
Campbell, Myron, South Bend, Ind. Check-book	273,254	Mar. 6	15	5	23	837
Campbell, Newton, Elizabethtown, Ohio. Car-coupling	275,138	Apr. 3	341	94	23	1285
Campbell, Rebecca A., Quincy, Mass. Milk-pail	274,268	Mar. 20	1316	363	23	1076
Campbell, Robert, Allegheny, Pa. Gearing	290,855	Dec. 25	1889	521	25	1241
Campbell, Smith, *et al.* (See Vincent, John, Jr., assignor.)						
Campbell, Solon O., Van Wert, Iowa, assignor of one-half to E. W. Campbell, Fort Worth, Tex. Device for converting motion	279,513	June 12	1131	313	23	2322
Campbell, William C., Corning, N. Y. Wagon-jack	276,771	May 1	314	82	23	1680
Campbell, William H., New York, N. Y. Ticket-punch	281,835	July 24	1891	516	24	349
Campbell, William M., Mount Clemens, Mich., assignor to National Continuous Stone Conduit Company, New York, N. Y. Apparatus for forming underground pipes of concrete	272,410	Feb. 20	1043	292	23	637
Campbell, William M., Mount Clemens, Mich., assignor to National Continuous Stone Conduit Company, New York, N. Y. Apparatus for forming continuous conduits of concrete	272,411	Feb. 20	1044	292	23	637
Campbell, William R., and W. J. Chambers, Kirkwood, Ill. Corn-planter check-rower	278,876	June 5	277	80	23	2170
Campen, William W., Wilmington, N. C. Mechanical movement	284,816	Sept. 11	811	226	24	1048
Campbell, William W., San Francisco, Cal. Station-indicator	287,094	Oct. 23	1666	457	25	321
Campbell, William W., assignor of one-half to W. H. Thomas, Indianapolis, Ind. Pulley-covering	276,559	May 1	17	5	23	1630
Campbell, William W., assignor of one-half to W. H. Thomas, Indianapolis, Ind. Cementing composition	278,681	June 5	6	.....	23	2196
Campfield, Matthew E., assignor to himself and C. G. Luttiff, Cleveland, Ohio. Blank for monkey-wrenches	285,796	Oct. 2	18	6	25	5
Canaday, Winfield S., assignor of one-half to J. N. Watkins, New Castle, Ind. Balanced valve	280,346	July 3	10	3	23	4
Canavan, John H., Globe, Ariz. Ter. Water-jacket for furnaces	277,989	May 22	1805	492, 493	23	1955
Canavan, John H., Globe, Ariz. Ter. Reverberatory furnace	285,462	Sept. 25	1597	448	24	1200
Candlish, Thomas C., St. Louis, Mo. Corset-clasp	279,910	June 26	1600	449	23	2418
Candrian, Herman A., assignor, by mesne assignments, to H. Pulver, Chicago, Ill. Barber's chair	285,109	Sept. 18	1175	329	24	1119
Canessa, Paride, San Francisco, Cal. Folding box	280,013	June 26	1729	485	23	2440
Canfield Company, I. A. (See Canfield, Isaac A., assignor.)						
Canfield, Felix P., Boston, Mass. Safety-stop for elevators	281,016	July 10	835	232	24	155
Canfield, Henry C. (See Dull, Norman R., assignor.)						
Canfield, Isaac A., assignor to I. A. Canfield Company, Middletown, Conn. Cutting-die	286,901	Oct. 16	1413	388	25	269
Cannefax, George R., Dixon, Mo. Middlings-purifier	280,571	July 3	280	77	24	50
Canney, John F. (See Tousey, Donald F., assignor.)						
Cannon, Albert P., Farmingdale, Me. Fastening for reflectors upon tubular lanterns	274,170	Mar. 20	1192	328	23	1054
Cannon, Fred. C., New Haven, Conn. Carriage-lamp	270,385	Jan. 9	671	197	23	141
Cannon, H. C., *et al.* (See Gates, Thomas, assignor.)						
Cannon, James F., and W. C. Von Buchwald, Philadelphia, Pa. Sewing-machine	288,008	Nov. 6	281	80	25	555
Cannon, Richard, Washington, Pa. Sight for fire-arms	274,269	Mar. 20	1317	363	23	1077
Cannon, Robert J., and J. M. Ward, Des Moines, Iowa. Seal-lock	276,666	May 1	155	40	23	1652
Cantelo, John S., Taunton, Mass. Adjustable drawing-knife	286,385	Oct. 9	761	206	25	149
Cantelo, John S., Boston, Mass. Drawing-knife	290,396	Dec. 18	1275	358	25	1128
Canvas Slide Fire Escape Company. (See Bailey, Ezra H., assignor.)						
Capen, Thomas W., assignor to Yale Lock Manufacturing Company, Stamford, Conn. Traveling crane	270,279	Jan. 9	533	156, 157	23	114
Capen, Thomas W., assignor to Yale Lock Manufacturing Company, Stamford, Conn. Traveling crane	270,386	Jan. 9	672	197, 198, 199, 200, 201	23	141
Capen, Thomas W., assignor to Yale Lock Manufacturing Company, Stamford, Conn. Crane	271,311	Jan. 30	1830	531, 532	23	371
Capen, Thomas W., assignor to Yale Lock Manufacturing Company, Stamford, Conn. Hoisting apparatus	273,462	Mar. 6	286	77, 78, 79	23	882
Capen, Thomas W., assignor to Yale Lock Manufacturing Company, Stamford, Conn. Overhead traveling apparatus	275,465	Apr. 10	785	210, 211	23	1369
Capen, Thomas W., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Traveling crane	278,774	June 5	121	34	23	2144

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Capen, Thomas W., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Traveling crane	278,775	June 5	122	34, 35	23	2144
Capen, Thomas W., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Hoisting apparatus	279,704	June 19	1357	378	23	2369
Capewell, George J. (See Murphy, Daniel H., assignor.)						
Cappel, Fredrick, Hoboken, N. J. Cork puller or screw	287,504	Oct. 30	2181	502	25	423
Cappel, Friedrich. (See Bauer, Ernst, assignor.)						
Capron, Elisha P. H., Hudson, N. Y. Friction-clutch	275,466	Apr. 10	787	211	23	1369
Capron, Jacob, New York, N. Y. Pneumatic indicator and speaking-tube	277,110	May 8	757	199	23	1761
Capron, Jacob, New York, N. Y. Electrical indicator for speaking-tubes	283,073	Aug. 14	713	200	24	634
Carbonate Mining Company. (See Davis, Robert W., assignor.)						
Card, William L. (See Dane and Card.)						
Cardwell, George A., assignor to W. G. Button, Brooklyn, N. Y. Automatic telephone-exchange	281,613	July 17	1583	436	24	290
Cardwell, Thomas M., and N. B. Berry, Harrodsburg, Ky. Hinged mouth-piece for mail-pouches	280,572	July 3	281	77	24	51
Cardy, Joseph. (See Parker and Cardy.)						
Carey, Dennis, Lynn, Mass. Horseshoe	276,157	Apr. 24	1658	457	23	1535
Carey, Ebenezer M. (See McMurray and Carey.)						
Carey, Eustace, H. Gaskell, Jr., and F. Hurter, Widnes, county of Lancaster, England. Manufacture of bicarbonate of soda	276,990	May 1	592	156	23	1727
Carey, Henry W., Manistee, Mich. Band for shingle-bunches	286,386	Oct. 9	762	206	25	149
Carey, William J., Millvale, assignor of one-half to H. P. Staving, Allegheny, Pa. Freight-car-door fastening	278,092	May 22	1923	528	23	1977
Carey, Wilson W., Lowell, Mass. Wood-rim pulley	271,416	Jan. 30	1972	570	23	396
Carey, Wilson W., Lowell, Mass. Band-sawing machine	275,139	Apr. 3	341	94	23	1285
Carey, Wilson W., Lowell, Mass. Wood-rim pulley	282,161	July 31	2312	635	24	424
Cargill, Frank R., Chicago, Ill. Journal-bearing	280,347	July 3	11	3	24	4
Carl, George. (See Gorrell, Albert, assignor.)						
Carl, John, New York, N. Y. Combined jelly and ice-cream tray	284,721	Sept. 11	696	195	24	1028
Carl, Robert. (See Smith, Curtis A., assignor.)						
Carlaw, John A. (See Bradshaw, Edwin, assignor.)						
Carleton, Albert S., Brownville, N. Y. Carriage-gearing	281,667	July 24	1668	455	24	309
Carleton, Cyrus. (See Willcox and Carleton.)						
Carleton, Cyrus, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Bolt and nut lock	277,408	May 8	1102	296	23	1822
Carleton, Monroe G., assignor to G. W. Austin and V. S. Pease, Jackson, Mich. Bouquet-badge	273,686	Mar. 6	545	145	23	927
Carleton, Roswell. (See Keith and Carleton.)						
Carleton, Roswell. (See Keith, Thomas K., assignor.)						
Carley, Benjamin, Paterson, N. J., assignor to C. Holland, New York, N. Y. Slide-valve	282,162	July 31	2313	635	24	424
Carley, Harvey. (See Page and Carley.)						
Carley, Timothy L., assignor of one-half to L. F. Powell, Syracuse, N. Y. Saw-frame for circular-saw mills	290,174	Dec. 11	983	277	25	1069
Carley, Timothy L., L. F. Powell, and H. H. Boggs, Syracuse, N. Y.; said Boggs assignor to said Powell. Set-works for saw-mills	290,531	Dec. 18	1471	406	25	1161
Carlile, George F., Bloomington, Ill. Railway-signal	289,385	Dec. 4	15	5	25	890
Carlisle, Frederick, assignor to National Chemical Machine and Manufacturing Company, Newark, N. J. Apparatus for the manufacture of hydrated sulphurous acid	284,817	Sept. 11	812	236	24	1048
Carlisle, George, Attleborough, Mass. Universal joint	285,966	Oct. 2	236	66	25	45
Carlisle, James D. (See Smither and Carlisle.)						
Carlisle, William S., Watertown, N. Y. Ruffling attachment for sewing-machines	282,843	Aug. 7	441	125	24	578
Carlisle, William S., assignor to Davis Sewing Machine Company, Watertown, N. Y. Sewing-machine	270,540	Jan. 9	876	{254 255}	{23}	181
Carlock, Charles F., New York, and C. H. Davids, Brooklyn, N. Y.; said Davids assignor to said Carlock. Book adjuster and supporter	274,719	Mar. 27	1900	530	23	1185
Carlsen, Hans M., Cleveland, Ohio. Binding pole and chain	276,351	Apr. 24	1908	529	23	1576
Carlson, William H. (See Leaming, Christopher, assignor.)						
Carlsson, Theodore. (See Lindgren, Carl A., assignor.)						
Carlton, Galen, Brooklyn, N. Y., and D. M. Smyth, assignors to Smyth Manufacturing Company, Hartford, Conn. Apparatus for pasting sheets in binding books	276,224	Apr. 24	1736	{480 481}	{23}	1548
Carlton, Harry W., Peoria, Ill. Electric train-arrester	277,990	May 22	1805	493	23	1956
Carman, A. F., *et al.* (See Williamson, S. Stuart, assignor.)						
Carman, Alonzo G., Marengo, Ill. Attachment for windmills	275,140	Apr. 3	342	94	23	1285
Carman, Alvin O., Potterville, Mich. Combined harvester and grain-binder	269,926	Jan. 2	5	2, 3, 4	23	3
Carman, Benjamin F., San Francisco, Cal. Cable-grip	288,690	Nov. 20	1138	313	25	720
Carman, Hiram, Portland, assignor to Hyde, Klime & Co., Ridgway, Pa. Adjustable saw-guide	270,387	Jan. 9	677	201	23	142
Carman, John W., Fort Atkinson, Wis., assignor of part to E. Terhune, Chicago, Ill., and G. F. Patterson, Fort Atkinson, Wis. Window-screen	277,111	May 8	759	200	23	1762
Carman, Theodore F. (See Stevens and Bond, assignors.)						
Carmichael, Henry, Brunswick, Me. Treating paper-stock. (Reissue)	10,282	Feb. 6	529	.....	23	531
Carmichael, John P., Milwaukee, Wis. Rubber-dam clamp	277,224	May 8	891	237	23	1785
Carmien, Charles C. (See Yoder and Carmien.)						
Carnell, George, Philadelphia, Pa. Brick-pressing machine	283,565	Aug. 21	1326	370	24	751
Carney, S. H. (See Maloney, James A., assignor.)						
Carney, S. H., trustee. (See Maloney, James A., assignor.)						
Carney, Thomas, Arbuckle, W. Va. Lifting-jack	288,009	Nov. 6	283	80	25	555
Caro, Heinrich, Mannheim, Germany, and A. Kern, Basle, Switzerland, assignors to Badische Anilin und Soda Fabrik, Mannheim, Germany. Manufacture of dye-stuff	290,856	Dec. 25	1890	.....	25	1241
Caron, Charles K. (See Maxwell, George S., assignor.)						
Carpenter, Alexis C., Rochester, N. Y. Truck	281,017	July 10	837	232	24	155
Carpenter, Augustine. (See Hitchcock, Henry, assignor.)						
Carpenter, Coles A., Oyster Bay, N. Y. Apparatus for excavating and screening sand, &c.	288,545	Nov. 13	951	261	25	681
Carpenter, Delos, Orion, Mich. Fanning-mill	282,050	July 31	2159	{592 593}	{24}	400
Carpenter, Edd, Owosso, Mich. Harness-pad press	271,417	Jan. 30	1973	570	23	396
Carpenter Edwin P. (See Wilson, Eugene M., assignor.)						
Carpenter, Francis W., Harrison, N. Y. Toy horse	274,270	Mar. 20	1318	364	23	1077
Carpenter, Francis W., Harrison, N. Y. Dust-pan	277,225	May 8	891	237	23	1785
Carpenter, Francis W., Harrison, N. Y. Dust-pan	285,877	Oct. 2	124	36	25	24
Carpenter, Francis W., Harrison, N. Y. Toy horse and cart	287,095	Oct. 23	1668	458	25	322
Carpenter, George A. (See Rickel and Carpenter.)						
Carpenter, George O., *et al.* (See Simonds, George W., assignor.)						
Carpenter, James M., Pawtucket, R. I. Screw-plate	290,857	Dec. 25	1891	522	25	1241

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Carpenter, Jesse, Wyman, Mich. Cant-hook	283,203	Aug. 14	875	244	24	663
Carpenter, Juliaette W. B., Medford Mass. Halter	285,012	Sept. 18	1057	296	24	1099
Carpenter, Lorin D., Brush Creek, Iowa. Tread-power	281,018	July 10	838	233	24	155
Carpenter, Peter M., Buffalo Gap, Tex. Sheep-dip	279,705	June 19	1359	.....	23	2369
Carpenter, Robert K., Medford, Mass. Horse-clipping machine	281,668	July 24	1669	455	24	309
Carpenter, S. M. (See Kaufholz, John N., assignor.)						
Carpenter, William A., Bankers, Mich. Measure	289,974	Dec. 11	748	211	25	1025
Carpenter, William B., Newark, N. J. Plastic eyelet	271,035	Jan. 23	1492	430	23	305
Carpentier, Henri. (See Lartigue, Charles F. M. T., assignor.)						
Carper, Samuel B., Buda, Ill. Harrow	275,990	Apr. 17	1450	399	23	1492
Carqueville, Edward, *et al.* (See Hartman, George J., assignor.)						
Carr, Annie. (See Chace, John K., assignor.)						
Carr, Clark E., Galesburg, Ill. Car-coupling	290,317	Dec. 18	1174	329	25	1109
Carr, George W., assignor to Carr & Hobson, (limited,) New York, N. Y. Guide-wheel for plows	270,742	Jan. 16	1138	326	23	238
Carr & Hobson. (See Carr, George W., assignor.)						
Carr & Hobson. (See Hobson, Joseph W., assignor.)						
Carr, Howard, San Francisco, Cal. Magazine-gun	281,341	July 17	1253	348	24	234
Carr, James, Syracuse, N. Y. Pool-ball rack	286,114	Oct. 2	411	113	25	76
Carr, James, Covington, Ky. Fountain-pen	288,010	Nov. 6	283	80	25	556
Carr, Jerome S., Cincinnati, Ohio. Velocipede	273,815	Mar. 13	748	{203 / 204}	23	970
Carr, John I. (See Strong and Carr.)						
Carr, John I., Chicago, Ill., assignor to L. W. Tatum, Cleveland, Ohio. Tool-holder for grindstones	277,882	May 22	1675	457	23	1934
Carr, John I., Chicago, Ill., assignor to L. W. Tatum, Cleveland, Ohio. Tool-holder for grindstones	277,883	May 22	1676	457	23	1934
Carr, John F., Camden, N. J. Gas-lighter	280,573	July 3	282	78	24	51
Carr, Joseph E., assignor of one-half to O. E. Michaelis, Philadelphia, Pa. Therapeutic electric appliance	287,096	Oct. 23	1069	458	25	322
Carr, Laurence, Shakopee, Minn. Hame	270,577	Jan. 16	926	267	23	198
Carr, Robert L., Fall River, Mass. Warping-machine	276,667	May 1	156	40	23	1653
Carr, Robert L., Fall River, Mass. Apparatus for rewinding yarn from broken or damaged cops	276,668	May 1	159	41	23	1653
Carr, Robert S., assignor, by mesne assignments, to Sohn Ridge Implement Company, Hamilton, Ohio. Seeder	274,460	Mar. 27	1573	431	23	1128
Carr, Robert S., assignor, by mesne assignments, to Sohn Ridge Implement Company, Hamilton, Ohio. Planter	279,221	June 12	757	209	23	2262
Carr, Robert S., assignor to Sohn Ridge Implement Company, Hamilton, Ohio. Horse hay-rake	283,324	Aug. 14	1020	285	24	690
Carr, Robert S., and J. W. See, assignors, by mesne assignments, to Sohn Ridge Implement Company, Hamilton, Ohio. Grain-drill attachment	274,459	Mar. 27	1572	430	23	1128
Carr, Seaborn, Eminence, Mo. Spoke-socket for wheels	284,183	Sept. 4	32	8	24	910
Carr, Stephen B. (See Hall, Benjamin F., assignor.)						
Carr, Syducy H., assignor to L. Schlesinger & Co., New York, N. Y. Toy locomotive	273,347	Mar. 6	141	39	23	857
Carr, William, assignor of one-half to J. K. Martin and C. Vander Voet, St. Louis, Mo. Needle-bar cover for sewing-machines	284,538	Sept. 4	462	131	24	983
Carrick, Thomas J., assignor to H. Snowden and C. H. Cowman, Baltimore, Md. Dental vulcanizer	279,079	June 5	571	157	23	2221
Carrick, William, Boston, Mass. Ribbon or label holder for hats	278,877	June 5	278	81	23	2171
Carrier, Arthur, Bay City, Mich. Lath-sawing machine	289,219	Nov. 27	1782	494	25	843
Carrier, Louis N. (See Amyot, Jean B., assignor.)						
Carrington, George L., *et al.* (See Howe, Solon G., assignor.)						
Carroll, Erastus A., East Bloomfield, N. Y. Horseshoe	275,141	Apr. 3	343	94	23	1285
Carroll, George D., assignor to M. C. Carroll, Yonkers, N. Y. Drying printed sheets	273,816	Mar. 13	751	204	23	971
Carroll, Henry S. (See Smith, Robert M., assignor.)						
Carroll, John, Owing's Mills, Md. Casket-rest	279,706	June 19	1359	379	23	2369
Carroll, John, Rushville, Ind. Vehicle-spring	289,067	Nov. 27	1602	444	25	810
Carroll, Julius, *et al.* (See Whiting, James M., assignor.)						
Carroll, Manfred C. (See Carroll, George D., assignor.)						
Carroll, Martin, Chicago, Ill. Brick-machine	289,889	Dec. 11	648	181	25	1007
Carroll, Samuel T., Denton, Tex. Mud-shoe	288,406	Nov. 13	787	213	25	652
Carroll, William. (See Martin, William F., assignor.)						
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Bearing for spinning-spindles	272,528	Feb. 20	1190	332	23	663
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopedale, Mass. Spindle-bearing	290,397	Dec. 18	1276	358	25	1128
Carruth, William H., Bolivar, assignor of one-half to G. W. Randolph, Montezuma, Tenn. Harrow and cultivator	271,599	Feb. 6	21	5	23	444
Carruthers, William H., Moundsville, W. Va. Pulley	281,669	July 24	1671	455	24	309
Carscadin, Charles A., and F. P. Fish, New York, N. Y. Safety attachment for elevators	277,226	May 8	892	238	23	1785
Carson, Azariah. (See Patterson, George W., assignor.)						
Carson, Francis B., Staunton, Va. Wagon-brake	288,546	Nov. 13	953	262	25	681
Carson, Howard A., Boston, Mass. Mechanism for moving earth and excavated material	282,163	July 31	2314	635	24	424
Carson, John, Cleveland, Ohio. Furnace	271,418	Jan. 30	1973	570	23	396
Carson, Robert J., Chicago, assignor of one-half to E. Rutz, Springfield, Ill. Iron or steel fence-post	278,220	May 22	2091	575	23	2005
Carson, Robert J., Chicago, assignor to T. Gilmore, Macomb, Ill. Transom-lifter	279,858	June 19	1536	429	23	2400
Carson, Robert J., Chicago, assignor of six-eighths to T. Gilmore, McComb, Ill., and J. R. Hammond, Leadville, Colo. Iron fence-post	281,019	July 10	839	233	24	155
Carstensen, Ingwer A. (See Carstensen, Peter C. and I. A.)						
Carstensen, Peter C. and I. A., Walnut, Iowa. Socket for harrow-teeth	288,773	Nov. 20	1241	340	25	738
Carter, Alba B., Raymond, N. H. Apple-parer	273,255	Mar. 6	16	5	23	837
Carter, Alba B., Great Falls, assignor of one-half to C. W. Prescott, Raymond, and S. H. Atkins, Milton Mills, N. H. Device for attaching wheels to axles	285,341	Sept. 18	1439	407	24	1167
Carter, Alba B., assignor of one-half to C. W. Prescott and S. P. Blake, Raymond, N. H. Apple-parer	288,974	Nov. 27	1486	412	25	791
Carter, Alexander, *et al.* (See Lattimer, Francis, assignor.)						
Carter, Charles D., Spring Arbor, Mich. Wheel-cultivator	274,720	Mar. 27	1901	530	23	1185
Carter, Clement L., Union City, Ind. Post-hole digger	278,878	June 5	279	81	23	2171
Carter, Clement L., Union City, Ind. Post-hole digger	283,753	Aug. 28	1559	439	24	807
Carter, Cyrus C., Neelyville, Ill. Wheat-sowing machine	284,376	Sept. 4	262	73	24	948
Carter, Edward D., Weimar, Tex. Cotton-planter	278,682	June 5	7	2	23	2126
Carter, Edward D., Weimar, Tex. Combined cotton and corn planter and cultivator	284,609	Sept. 11	551	156	24	1003

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Carter, Edward H. (See Brong and Carter.)						
Carter, Edward S., Keokuk, Iowa. Car-coupling	270,014	Jan. 2	222	64	23	46
Carter, Edward S., Keokuk, Iowa. Car-coupling	273,950	Mar. 13	912	249	23	997
Carter, Edwin E., assignor to S. E. Carter, Waynesburg, Pa. Removable valve-cover	277,227	May 8	893	238	23	1785
Carter, Edwin E., assignor to S. E. Carter, Waynesburg, Pa. Fire-box for steam-boilers	284,610	Sept. 11	553	157	24	1004
Carter, Ezra W., *et al.* (See McCreary and Smith, assignors.)						
Carter, Ezra W., *et al.* (See Smith and McCreary, assignors.)						
Carter, Ezra W., Cohoes, and D. R. Smith, Green Island, assignors of one-half to R. S. Clark and J. McCleary, Cohoes, N. Y. Percolator	288,547	Nov. 13	953	262	25	681
Carter, Fannie. (See Carter, Henry, assignor.)						
Carter, Francis M., Marlborough, Mass., assignor to Shepherd Nailing Machine Company, Nashua, N. H. Machine for driving headless nails	270,280	Jan. 9	534	157 158	23	114
Carter, George W. T. (See Jackson and Carter.)						
Carter, Henry, *et al.* (See Lauten, Frank H., assignor.)						
Carter, Henry, assignor of one-fourth to F. Carter, Gold Hill, Nev. Weather-strip	284,539	Sept. 4	462	131	24	963
Carter, Henry, and W. Rennie, Toronto, Ontario, Canada; said Carter assignor to said Rennie. Ditching-machine	285,225	Sept. 18	1311	369 370	24	1143
Carter, James F., and T. Seely, Indianapolis, Ind. Saw-mill	279,537	June 19	1165	322	23	2335
Carter, John B., *et al.* (See Ball, Wilber W., assignor.)						
Carter, John F. (See Walker and Carter.)						
Carter, John H., assignor of one-half to F. A. Whitney, Keokuk, Iowa. Letter-box	290,532	Dec. 18	1472	407	25	1161
Carter, John R., Toronto, Ontario, Canada. Memorandum-book	273,223	Feb. 27	2075	583	23	825
Carter, John R., Toronto, Ontario, Canada. Manifold copying-book. (Reissue)	10,359	July 24	2127	583	24	388
Carter, John S., Syracuse, and I. C. Wightman, Norwich, N. Y. Milk-cooler	288,011	Nov. 6	264	80	25	556
Carter, John W., Jr., Brooklyn, N. Y. Card-support	272,120	Feb. 13	672	183	23	568
Carter, Nathan P., Brooklyn, N. Y. Ornamental chain	273,025	Feb. 27	1827	512	23	781
Carter, Robert A., Pittsburg, Pa. Roll-mounting	285,567	Sept. 25	1715	485	24	1222
Carter, S. E. (See Carter, Edwin E., assignor.)						
Carter, Sarah E. (See Carter, Edwin E., assignor.)						
Carter, Wendell, and H. T. Woods, Boston, Mass. Car-coupling	286,175	Oct. 9	484	134	25	101
Carter, William, Highlandville, Mass. Mitten	275,142	Apr. 3	344	95	23	1285
Carter, William, Highlandville, Mass., assignor to G. A. Leighton, Manchester, N. H. Knitting-machine	272,529	Feb. 20	1190	332 333	23	663
Carter, William, Toronto, Ontario, Canada. Overalls	280,574	July 3	282	78	24	51
Carter, William, Oldham, county of Lancaster, England. Gas-regulator	281,449	July 17	1392	382	24	257
Carter, William F. (See Adams and Carter.)						
Carter, William F., and J. M. Adams, San Francisco, Cal. Ore-concentrator	285,110	Sept. 18	1177	329 330	24	1119
Carter, William W., Bristol, Conn. Egg-beater	270,015	Jan. 2	223	64	23	46
Carter, Winfield S., Ashtabula, Ohio. Carpet-sweeper	282,957	Aug. 14	572	162	24	609
Cartier, Antonio E., *et al.* (See Bemis, Charles, assignor.)						
Cartmell, Robinson, Middlebury, Vt., and A. Ball, Claremont, N. H. Wood-pulp machine	286,902	Oct. 16	1413	389	25	270
Cartter, David K. (See Williamson, S. Stuart, assignor.)						
Cartwright, Edward, assignor of two-thirds to W. H. Mann and J. S. Edwards, Wilber, Nebr. Smelting-furnace	286,777	Oct. 16	1255	339	25	242
Cartwright, Henry. (See Frost and Cartwright.)						
Cartwright, John B. (See Kemper and Cartwright.)						
Cartwright, Robert, Rochester, N. Y. Axle-box	273,463	Mar. 6	288	79	23	882
Carty, John J., Cambridge, assignor to American Bell Telephone Company, Boston, Mass. Telephone signaling apparatus	288,691	Nov. 20	1140	314	25	720
Carvalho, Solomon N., New York, N. Y. Apparatus for superheating steam and heating air	270,281	Jan. 9	540	159	23	115
Carver Cotton Gin Company. (See Strong, Frederick S., assignor.)						
Carver, George H., Ravenswood, assignor to W. Deering, Chicago, Ill. Sickle-driving mechanism for harvesters	282,494	Aug. 7	18	5	24	504
Carver Gin and Machine Company. (See Horne, Edward G., assignor.)						
Carver, Thomas F., assignor of one-half to M. F. McMahon, Worcester, Mass. Friction-clutch. (Reissue)	10,365	Aug. 14	1086	305	24	702
Carver, William, Scottsville, N. Y. Cultivator and bean-harvester	274,224	Feb. 27	2076	583	23	825
Carves, François, St. Etienne, France. Coke-oven	287,905	Nov. 6	143	42, 43	25	533
Carwardine, Thomas. (See Hughes and Carwardine.)						
Cary, James H., Boston, Mass. Individual signaling apparatus for telephones	281,450	July 17	1394	383	24	258
Cary, James H., Boston, assignor to H. P. Tobey, Wareham, Mass. Individual signaling apparatus	278,221	May 22	2091	576	23	2005
Cary, James H., Boston, assignor to H. P. Tobey, Wareham, Mass. Individual telephone-call	281,614	July 17	1596	436	24	291
Cary, James H., assignor to Cary Telephone Signal Company, Boston, Mass. Signaling apparatus for telephone-exchange systems	285,342	Sept. 18	1440	407	24	1167
Cary, Joseph C., assignor to J. H. J. Ronner, New York, N. Y. Box for carrying bottles	278,504	May 29	2478	676	23	2092
Cary Telephone Signal Company. (See Cary, James H., assignor.)						
Caryl, Charles W., Philadelphia, Pa. Fire-extinguisher	278,879	June 5	280	81	23	2171
Casad, Thomas F., Yellow Springs, Ohio. Tobacco-cutter	289,975	Dec. 11	748	211	25	1025
Casaday, William L. (See Gray and Casaday.)						
Casaday, William L. (See Smith and Casaday.)						
Casamajor, Paul, Brooklyn, N. Y. Filtering saccharine solutions, &c	270,634	Jan. 16	999	288	23	211
Casanova, Bernardin, Moca-Croce, Corsica, France. Destruction of phylloxera	271,036	Jan. 23	1492	.....	23	305
Case, A. Welles, *et al.* (See Case, Henry F., assignor.)						
Case, A. Wells. (See Case, Henry F. and A. W.)						
Case, A. Wells, South Manchester, Conn. Car-coupling	273,464	Mar. 6	288	79	23	883
Case, A. Wells, South Manchester, Conn. Car-coupling	278,880	June 5	281	81	23	2171
Case, A. Wells, South Manchester, Conn. Pipe-wrench	280,793	July 10	574	160	24	108
Case, A. Wells, South Manchester, Conn. Grinding attachment for valves	285,568	Sept. 25	1716	485	24	1223
Case, A. Willard, *et al.* (See Case, Henry F., assignor.)						
Case, Alber R. (See Nino and Case.)						
Case, Asahel B., *et al.* (See Dutemple, William R., assignor.)						
Case, Charlie, Emlenton, Pa. Automatic safety attachment for steam-boilers	269,827	Jan. 2	12	4	23	4
Case, Charles P., assignor of one-half to G. F. Tomlinson, Horseheads, N. Y. Rotary engine	273,951	Mar. 13	913	249 250 251	23	998
Case, Charles W., J. O. Pattee, and A. M. Long, Minneapolis, Minn. Machine for forming and cleaning ditches	272,412	Feb. 20	1045	293 294	23	637
Case, Dudley W., Bay City, Mich. Sectional boat	274,171	Mar. 20	1193	328	23	1054
Case, Edwin, East Toledo, Ohio. Cultivator	270,887	Jan. 23	1311	379	23	276
Case, Francis M. and W., Denver, Colo. Rock-pulverizer	284,611	Sept. 11	554	157	24	1004

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Case, George C., *et al.* (See Dutemple, William R., assignor.)						
Case, Henry, assignor to M. A. Case, Brooklyn, N. Y. Pier or ferry rack	288,308	Nov. 13	641	176	25	628
Case, Henry F., South Manchester, Conn. Elastic roll	269,828	Jan. 2	12	4	23	5
Case, Henry F., South Manchester, Conn. Tool-handle and extension-blade	272,944	Feb. 27	1735	484	23	764
Case, Henry F., South Manchester, Conn. Paper-making machine	286,587	Oct. 16	1013	274	25	201
Case, Henry F., assignor to A. W. and A. W. Case, South Manchester, Conn. Grinding finishing-machine plates	269,915	Jan. 2	108	32	23	23
Case, Henry F. and A. W., South Manchester, Conn. Floor-clamp	275,017	Apr. 3	174	47	23	1255
Case, John, and J. A. Whitaker, McDonald, Pa. Device for automatically opening and shutting doors in coal-mines	282,269	July 31	2448	673	24	447
Case, John K., Vincennes, Ind. Harvester cutter-bar	271,757	Feb. 6	245	69	23	483
Case, John M., Columbus, Ohio. Reduction-machine	276,139	Apr. 17	1636	448	23	1521
Case, John M., assignor of one-half to W. M. Kurtz, Columbus, Ohio. Portable railway dining-table and lunch-case	275,991	Apr. 17	1451	399, 400	23	1492
Case, John M., assignor to Case Manufacturing Company, Columbus, Ohio. Apparatus for casting hollow chilled rolls	275,992	Apr. 17	1452	400	23	1492
Case Manufacturing Company. (See Case, John M., assignor.)						
Case, Margaret A. (See Case, Henry, assignor.)						
Case, Margaret A. (See Randolph, Mahlon, assignor.)						
Case, Theodore P., Powell, Ohio. Vehicle-tongue	278,505	May 29	2479	676	23	2062
Case, Willard E., Auburn, N. Y. Making electrodes	289,386	Dec. 4	17	.....	25	890
Case, Willis. (See Case, Francis M. and W.)						
Casebeer, Jacob B., *et al.* (See Henning, William B., assignor.) (Reissue.)						
Casey, Charles F., *et al.*, trustees. (See Warren, John, assignor.)						
Casey, Dennis D., Springfield, Mass. Pump-box	290,211	Dec. 18	1037	292	25	1086
Casey, John, Philadelphia, Pa. Banker's case, note-book, &c	283,965	Aug. 28	1810	512	24	853
Casey, Thomas A., assignor to J. H. Bunnell & Co., New York, N. Y. Signaling apparatus for district and fire-alarm telegraphs	272,645	Feb. 20	1341	376	23	690
Casgrain, Henri E., Quebec, Quebec, Canada. Cigarette-machine	281,451	July 17	1397	383	24	258
Cash, Arthur W., Decatur, assignor of one-half to O. L. Cash, Macon, Ill. Check-rower for corn-planters	271,788	Feb. 6	246	69	23	483
Cash, Arthur W., assignor of one-half to A. H. Imboden, Decatur, Ill. Paper-bag and twine holder	279,333	June 12	903	252	23	2286
Cash, Oscar L. (See Cash, Arthur W., assignor.)						
Caslow, Henry, York, Pa. Pump	285,226	Sept. 18	1313	370	24	1144
Casperson, William P., Chicago, Ill. Lamp-burner	282,958	Aug. 14	573	162	24	609
Cass, Fredrick G., Cambridgeport, Mass. Machine for scouring and polishing tin cans	279,222	June 12	758	209	23	2263
Cassady, George, Flint, Mich. Feed-water heater	274,561	Mar. 27	1718	477	23	1151
Cassady, George, Flint, Mich. Feed-water heater	288,206	Nov. 13	516	143	25	606
Cassagnes, Gilbert A., Paris, France. Ordnance	279,636	June 19	1277	354	23	2355
Cassedy Coupling Company. (See Cassedy, William F., assignor.)						
Cassedy, William F., Cape May, N. J., assignor to Cassedy Coupling Company, of New Jersey. Pipe or hose coupling	285,732	Sept. 25	1927	546	24	1260
Cassedy, William S., Kelly's Station, Pa. Fire-escape	287,233	Oct. 23	1844	504	25	353
Cassell, Edwin E., Philadelphia, Pa. Shelf-support	278,506	May 29	2480	676	23	2062
Cassidy, John, Cambridge, Mass. Clog or shoe	277,458	May 15	1172	315	23	1841
Cassidy, Thomas C., New York, N. Y. Bustle	290,533	Dec. 18	1473	407	25	1161
Cassin, William, assignor to L. Brandeis, Brooklyn, N. Y. Faucet	280,448	July 3	138	37	24	26
Castell, James, Centreville, Iowa. Refrigerator	278,507	May 29	2481	677	23	2062
Castle, Goswin, and G. D. Pohl, Ava, N. Y. Curd-mill	277,228	May 8	896	239	23	1786
Castle, Lewis D., assignor to A. Burritt Hardware Company, Waterbury, Conn. Machine for tapping steam, gas, and water fittings	280,575	July 3	283	78	24	51
Castle, Lewis D., assignor to A. Burritt Hardware Company, Waterbury, Conn. Tap for steam and gas fittings	284,377	Sept. 4	263	73, 74	24	949
Castle, Samuel D., Bridgeport, Conn. Base-ball	281,238	July 17	1124	310	24	212
Castle, Samuel D., and A. Skaats, Bridgeport, Conn. Swinging arm for securing folding steps to movable berths	285,569	Sept. 25	1717	485	24	1223
Castle, Samuel D., and A. Skaats, Bridgeport, Conn. Counter-balance for folding steps for berths	286,998	Oct. 23	1540	424	25	297
Castle, Samuel N., assignor to Ashtabula Carriage Bow Company, Ashtabula, Ohio. Carriage-bow	272,374	Feb. 13	976	273	23	622
Castle, William H., Ashtabula, Ohio. Car-coupling	280,449	July 3	139	37, 38	24	26
Castle, William H., assignor to Ashtabula Bolt and Shaft Company, Ashtabula, Ohio. Carpet-sweeper	277,229	May 8	897	239	23	1786
Castor, William S., Marston, Ill. Door	270,635	Jan. 16	1000	288, 289	23	212
Castor, William S., Marston, Ill. Fruit-picker	282,051	July 31	2161	593	24	400
Caswell, Ezra, Lyons, N. Y. Hub-boring machine	282,495	Aug. 7	19	5	24	504
Caswell, John H. (See McDermott, Joseph A., assignor.)						
Caswell, Walter, Napoleon, Mo. Vehicle-hub	275,993	Apr. 17	1453	400	23	1492
Caswell, Walter, Napoleon, Mo. Vehicle-axle	275,994	Apr. 17	1453	400	23	1492
Cate, Stephen M., and C. O. Smith, Bridgeport, Conn. Car-coupling	279,911	June 26	1601	449	23	2418
Cathcart, James L., Alexandria, Va. Steering mechanism for vessels	274,172	Mar. 20	1194	328	23	1054
Cather, Lorenzo D., White Pigeon, Mich. Fence	285,570	Sept. 25	1718	486	24	1223
Catlin, A. D. (See Tavener, Robert W., assignor.)						
Catlin, Charles A. (See Horsford and Catlin.)						
Catlin, Charles A., Providence, R. I. Preparing salt for table use	273,256	Mar. 6	17	.....	23	837
Catlin, Eli, Post Oak, Tex. Well-drilling apparatus	288,975	Nov. 27	1488	412	25	791
Cauffman, H. Howard, Norristown, Pa. Tag or ticket fastener	273,708	Mar. 13	602	162	23	945
Caughell, Robert N., Shedd, Oreg. Spoke-extractor	277,991	May 22	1807	493	23	1956
Cavanagh, James, trustee. (See Scott, Jacob R., assignor.)						
Caverly, Amos K., Moline, Ill. Two-wheeled vehicle	278,222	May 22	2093	576	23	2006
Caviness, Richard E., and G. McCormick, Beckwith, Iowa. Trip-wire for check-row corn-planters	271,419	Jan. 30	1975	570	23	397
Cavitt, Bruce, *et al.* (See Luckey, George E., assignor.)						
Cawley, Samuel H., El Dorado, Ohio. Sulky-harrow	289,616	Dec. 4	302	84	25	941
Cayce, John M., Nashville, assignor to himself and C. A. Bailey, trustee, Franklin, Tenn. Sewing-machine motor	288,620	Nov. 20	1047	288, 289	25	705
Caywood, Ernest, Vining, Kans. Floor-clamp	281,968	July 24	2056	503	24	377
Cease, David A., Coon's Corners, Pa. Fence	275,884	Apr. 17	1330	366	23	1470
Cebrian, John C. (See Molera and Cebrian.)						
Cebrian, John C. (See Molera, Eusebius J., assignor.)						
Celler, Charles Z., New York, N. Y. Drawer	288,012	Nov. 6	285	81	25	556

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Celluloid Manufacturing Company. (See Everding, John, assignor.)						
Celluloid Manufacturing Company. (See Hyatt, Isaiah S., assignor.)						
Celluloid Manufacturing Company. (See Hyatt, John W., assignor.)						
Celluloid Manufacturing Company. (See Lefferts, Marshall C., assignor.)						
Celluloid Manufacturing Company. (See Olszewski, Alexander, assignor.)						
Celluloid Manufacturing Company. (See Sanborn, Albert A., assignor.)						
Center, Joshua C., Haynesville, assignor of one-half to L. Mayo, Leavenworth, Kans. Seed-drill	284,378	Sept. 4	264	74	24	949
Center, Robert, New York, N. Y. Flag-pole	289,976	Dec. 11	749	212	25	1025
Central Refining Company. (See Smith and Doig, assignors.)						
Chabot, Cyprien, Philadelphia, Pa. Machine for channeling soles	280,576	July 3	284	78, 79	24	51
Chabot, Cyprien, Philadelphia, Pa. Sewing-machine	280,577	July 3	287	79, 80	24	52
Chabot, Cyprien, Philadelphia, Pa. Machine for making watch-pendants	290,858	Dec. 25	1891	522	25	1241
Chace, John K., New York, assignor to A. Carr, Yonkers, N. Y. Sheet-metal joint for oil-cans and other articles	274,271	Mar. 20	1319	364	23	1077
Chadborn & Coldwell Manufacturing Company. (See Johnston, Thomas, assignor.)						
Chadwell, Henry C., Portsmouth, Va. Animal-trap	275,995	Apr. 17	1454	401	23	1492
Chadwick, Charles N., Brooklyn, N. Y. Corset	274,272	Mar. 20	1319	364	23	1077
Chadwick, Edward W., Edgartown, Mass. Ventilator for window-sashes	289,387	Dec. 4	18	6	25	890
Chadwick, James M., Washington, D. C. Vapor-bath	280,348	July 3	12	4	24	4
Chadwick, Jay R., assignor of one-half to M. Sherman, St. Paul, Minn. Wagon-tongue support	288,407	Nov. 13	788	213	25	653
Chadwick, John L., Belleville, N. J., assignors of three-fourths to W. H. Lyman, Tottenville, N. Y. Reclaiming india-rubber and fiber from scraps of india-rubber cloth	288,013	Nov. 6	286	.....	25	556
Chaffee, H. L. (See Willsie, George E., assignor.)						
Chaffee, Willard L. (See Crowther, Henry, assignor.)						
Chaffin, Walter W. (See Lucas, Charles H., assignor.)						
Chaine, Joseph, A. Durand, and F. S. De Chaligny, Lyons, France. Process of and apparatus for coloring photographs	271,789	Feb. 6	248	69	23	484
Chalk, Timothy C., Pawtucket, R. I. Non-heat-conducting pail	274,461	Mar. 27	1574	431	23	1128
Chalk, Timothy C., Pawtucket, R. I. Oil-can	286,588	Oct. 16	1015	275	25	201
Challinor, Charles, Jr., Pittsburg, Pa. Manufacture of open-ended glassware	275,996	Apr. 17	1454	401	23	1493
Challoner, John. (See Bridgman and Challoner.)						
Chalmers, George, San Juan, Cal. Railway-switch	286,682	Oct. 16	1137	306	25	222
Chalpant, Walter A. (See Moored, Joel, assignor.)						
Chambard, Peter F., Fayette, Ohio. Ditching-shovel	270,016	Jan. 2	224	64	23	46
Chamberlain, Addis E., Cincinnati, Ohio. Cook stove and range	269,829	Jan. 2	13	4, 5	23	5
Chamberlain, Amos P., London, England. Apparatus for the manufacture of gas for illuminating and heating purposes	278,093	May 22	1925	528	23	1977
Chamberlain, Amos P., London, England. Manufacturing gas	286,589	Oct. 16	1016	275	25	201
Chamberlain, Blanchard, assignor of six-eighths to R. Lamb, J. H. Wilson, H. E. and G. H. Palmer, Bellefontaine, Ohio. Windmill	284,945	Sept. 11	962	270	24	1075
Chamberlain, Charles M. (See Roberts, Henry P., assignor.)						
Chamberlain, Harvey W., and F. G. Harris, Lockport, assignors of one-half to M. A. Lesen and M. S. Greenebaum, Chicago, Ill. Running-gear for vehicles	285,227	Sept. 18	1315	370	24	1144
Chamberlain, John N., Springfield, Mass. Exhibition-cabinet for gas-burners	273,952	Mar. 13	915	251	23	998
Chamberlain, Rossco. (See Austin and Chamberlain.)						
Chamberlain, William T., assignor of one-half to B. M. Prince, Norwich, Conn. Air-gun	279,538	June 19	1166	323	23	2335
Chamberlain, William T., assignor of one-half to B. M. Prince, Norwich, Conn. Air-projectile	279,539	June 19	1167	323	23	2335
Chamberlain, William T., assignor of one-half to B. M. Prince, Norwich, Conn. Charging air-guns and projectiles	279,540	June 19	1167	323	23	2336
Chamberlin, Amzi Y., Alpha, Ill. Check-row-wire reeling and laying device	273,953	Mar. 13	917	251	23	998
Chamberlin, Edward K., Cleveland, Ohio. Sidewalk-light	273,257	Mar. 6	18	5	23	837
Chamberlin, Franklin L. (See Turner and Chamberlin.)						
Chamberlin, Gurden L., Marietta, Ohio. Car-coupling	274,106	Mar. 20	1109	306	23	1039
Chamberlin, Hiram M., Reading, Vt. Shutter-worker	284,722	Sept. 11	697	195	24	1028
Chamberlin, Ira J. (See Chamberlin, Lewis E. and I. J.)						
Chamberlin, James N., Marietta, Ohio. Cylinder-cock	283,566	Aug. 21	1327	370	24	772
Chamberlin, John H., Ypsilanti, Mich. Wagon-iron	282,496	Aug. 7	20	5	24	504
Chamberlin, Lewis E. and I. J., North Liberty, Iowa. Apparatus for tiling	270,932	Jan. 23	1367	304, 305	23	285
Chamberlin, Volney R., Cambridge, Mass. Window-screen	288,921	Nov. 20	1416	390	25	771
Chamberlin, Volney R., assignor to F. L. Hewlett, Cambridge, Mass. Window-screen	288,160	Nov. 6	451	126	25	586
Chambers, Bering & Quinlan. (See Bering, James E., assignor.)						
Chambers, Bering, Quinlan Company. (See Bering, James E., assignor.) (Reissue.)						
Chambers, Burton L. (See Jay and Chambers.)						
Chambers, Cyrus, Jr. (See Cockell, Harvey, assignor.)						
Chambers, Cyrus, Jr. (See Lasor, Sanford W., assignor.)						
Chambers, Cyrus, Jr., Philadelphia, Pa. Kiln for drying bricks, &c	274,907	Apr. 3	19	5	23	1230
Chambers, Cyrus, Jr., Philadelphia, Pa. Brick-making machinery	275,467	Apr. 10	788	211, 212, 213, 214	23	1369
Chambers, Cyrus, Jr., Philadelphia, Pa. Apparatus for preparing clay	277,459	May 15	1174	315	23	1841
Chambers, Cyrus, Jr., Philadelphia, Pa. Sand-scraper for brick-machines	285,013	Sept. 18	1059	296	24	1100
Chambers, Cyrus, Jr., Philadelphia, Pa. Engine-register	288,976	Nov. 27	1490	413	25	791
Chambers, Daniel T., Washington, D. C. Glove-fastener	281,969	July 24	2057	564	24	377
Chambers, Daniel T., assignor of one-half to A. G. Campbell, Washington, D. C. Fastener for gloves, &c	272,945	Feb. 27	1736	485	23	765
Chambers, Job C. and S., Dallas, Tex. Well-digging machine	271,600	Feb. 6	22	5	23	444
Chambers, John, Te Mata, New Zealand. Apparatus for cooling air for refrigerating, freezing, and other like purposes	280,131	June 26	1867	526, 527	23	2466
Chambers, Josephus C., Cincinnati, Ohio, assignor of one-half to W. Pelling, Newport, Ky. Device for attaching roofing-slates	282,439	July 31	2672	733	24	487
Chambers, Josephus C., assignor of part to J. S. Vine, Cincinnati, Ohio, W. A. Jackson, Detroit, Mich., and N. C. Gridley, Chicago, Ill. Telegraph and telephone conductor	289,890	Dec. 11	650	181	25	1007
Chambers, Josephus C., assignor of part to J. S. Vine, Cincinnati, Ohio, W. A. Jackson, Detroit, Mich., and N. C. Gridley, Chicago, Ill. Telegraph and telephone cable	289,891	Dec. 11	651	181	25	1007
Chambers, Silas. (See Chambers, Job C. and S.)						
Chambers, William J. (See Campbell and Chambers.)						
Champ, George W. (See Floyd, Halleck, assignor.)						
Champion, Josiah P., Phelps, N. Y. Car-coupling	285,228	Sept. 18	1315	371	24	1144
Champion Scraper Company. (See Byrkett, Ahijah R., assignor.) (Reissue.)						
Champlain, L. Eugene, Ypsilanti, Mich. Check-rein carrier	279,707	June 19	1360	379	23	2369

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Champlin, Charles C., *et al.* (See Wellcs, Richard J., assignor.)						
Champlin, Charles W., and J. Bland, Chicago, Ill. Folding chair, camp-stool, and settee	273,954	Mar. 13	917	252	23	998
Champney, George F., Taunton, Mass. Manufacture of metal dies and similar articles	281,970	July 24	2058	564	24	377
Chance, Albert. (See Howard and Chance.)						
Chandler, Adanirom J., Fern Bank, Ohio. Awning	288,207	Nov. 13	516	143	25	606
Chandler, Clarence A., East Bridgewater, Mass. Machine for making paper bags	285,392	Sept. 25	1512	425, 426, 427	24	1185
Chandler, Clarence A., East Bridgewater, Mass. Bridle-bit	290,859	Dec. 25	1893	522	25	1242
Chandler, David E., and J. C. Williams, Aurora, Ill. Two-wheeled vehicle	279,080	June 5	572	157	23	2222
Chandler, David E., and J. C. Williams, assignors of one-half to L. W. Blakesly and F. J. Randall, Aurora, Ill. Sulky	275,143	Apr. 3	345	95	23	1286
Chandler, David E., and J. C. Williams, assignors of one-third to C. Howard, Aurora, Ill. Two-wheeled vehicle	281,971	July 24	2059	564	24	377
Chandler, David E., and J. C. Williams, assignors of one-third to C. Howard, Aurora, Ill. Two-wheeled vehicle	281,972	July 24	2060	565	24	377
Chandler, Hiram C., Peru, Ind. Lifting-jack	283,204	Aug. 14	876	244	24	663
Chandler, John, Brooklyn, N. Y. Stopping railway-trains	273,465	Mar. 6	290	79, 80	23	883
Chandler, John, Brooklyn, N. Y. Stopping railway-trains	283,754	Aug. 28	1560	440	24	808
Chandler, Mary B., Concord, N. H. Instrument for drafting patterns	270,933	Jan. 23	1368	395	23	285
Chandler, Melchior W. (See McConnell and Chandler.)						
Chandler, Ralph, U. S. Navy. Sash-fastener	275,018	Apr. 3	175	47	23	1255
Chandler, William H. (See Dow and Chandler.)						
Chandler, William S., Jackson, Mich. Fire and water proof paint	288,621	Nov. 20	1049	.....	25	706
Chaney, Oliver P. (See Berger, Peters, and Chaney.)						
Chaney, Phineas, Jr., Brooklyn, N. Y. Dust-collector	288,014	Nov. 6	287	81	25	556
Chaney, Salathiel C., Chico, Cal. Dry gold-separator	285,111	Sept. 18	1179	330	24	1120
Chantrell, John, assignor to Hazeltine & Chantrell, Bridgeport, Conn. Bit-stock	284,275	Sept. 4	145	40	24	929
Chantrell, John, assignor to Hazeltine & Chantrell, Bridgeport, Conn. Bit-brace	284,276	Sept. 4	147	41	24	929
Chantrell, John, assignor to Hazeltine & Chantrell, Bridgeport, Conn. Ratchet brace	286,683	Oct. 16	1139	307	25	222
Chapel, Adoniram J., Arkansas City, Kans. Car-coupling	289,617	Dec. 4	304	85	25	941
Chapelain, Paul, Paris, France. Atomizer	275,997	Apr. 17	1455	401	23	1493
Chapelle, Elisha S., Pembroke, Mo. Toy	286,262	Oct. 9	591	162	25	118
Chaperon, Georges. (See De Lalande and Chaperon.)						
Chapin, Lebeus C. (See Chapin, Lucius D. and L. C.)						
Chapin, Lebeus C., Kalamazoo, Mich. Wheel-cultivator	285,797	Oct. 2	18	6	25	5
Chapin, Lucius D., Chicago, Ill. Manufacture of wrought-iron	283,074	Aug. 14	714	.....	24	634
Chapin, Lucius D., Chicago, Ill., and L. C. Chapin, Kalamazoo, Mich. Metallurgic furnace	283,075	Aug. 14	716	201	24	635
Chapin, Marcus D., Poultney, Vt. Churn-cover	277,001	May 8	613	161	23	1737
Chaplin, Alonzo C., Cape Elizabeth, assignor of one-half to D. W. Clark & Co., Portland, Me. Ice-cutting machine	271,220	Jan. 30	1721	498	23	352
Chaplin, Edwin D. (See Amborn and Chaplin.)						
Chaplin, Orril R., Boston, Mass. Clutch mechanism	277,002	May 8	614	161	23	1737
Chapman, Albert, Corunna, Mich. Stock-car	275,998	Apr. 17	1456	401	23	1493
Chapman, Alfred, *et al.* (See Beechey, Charles G., assignor.)						
Chapman & Armstrong Manufacturing Company. (See Chapman, Samuel A., assignor.)						
Chapman, Cass, Chicago, Ill. Automatic hatch, &c	289,068	Nov. 27	1603	444	25	810
Chapman, Eugene F., Wilson, Nebr. Wagon-stake	280,132	June 26	1869	527	23	2466
Chapman, Frank H. (See Griswold and Chapman.)						
Chapman, Frank H., assignor to C. Parker Company, Meriden, Conn. Extension-chandelier	271,420	Jan. 30	1975	571	23	397
Chapman, Frank H., assignor to C. Parker Company, Meriden, Conn. Coffee-mill	279,130	June 12	659	180, 181	23	2246
Chapman, Genry A., Strawberry Point, Iowa. Boiler-cleaner	273,026	Feb. 27	1828	512	23	781
Chapman, George, assignor to F. F. Adams & Co., (limited,) Erie, Pa. Tobacco-cutter	270,178	Jan. 2	411	120	23	84
Chapman, James G., *et al.* (See Beechey, Charles G., assignor.)						
Chapman, John, Newington, Conn. Knitting-machine	290,972	Dec. 25	2048	563, 564	25	1266
Chapman, John A., assignor to Northwestern Sleigh Company, Milwaukee, Wis. Two-wheeled vehicle	277,409	May 8	1103	296	23	1822
Chapman, John A., assignor to Northwestern Sleigh Company, Milwaukee, Wis. Two-wheeled vehicle	280,794	July 10	575	160	24	108
Chapman, John A., assignor to Northwestern Sleigh Company, Milwaukee, Wis. Two-wheeled vehicle	280,795	July 10	576	161	24	108
Chapman, John A., assignor to Northwestern Sleigh Company, Milwaukee, Wis. Sleigh	283,325	Aug. 14	1021	266	24	690
Chapman, John C., Boston, Mass. Reciprocating mechanical movement	275,144	Apr. 3	346	95	23	1286
Chapman, Joseph L., Philadelphia, Pa. Railway-tie and fastening	283,076	Aug. 14	718	201	24	635
Chapman, Luke, Collinsville, Conn. Snap-hook	286,530	Oct. 9	936	252	25	181
Chapman, Melville S., Elkhart, Ind. Picket-fence	274,173	Mar. 20	1195	329	23	1055
Chapman, Nathan, Nantucket, Mass. Bread-cutter	280,796	July 10	577	161	24	108
Chapman-O'Neill Manufacturing Company. (See O'Neill, Charles W., assignor.)						
Chapman, Samuel A., assignor to Chapman & Armstrong Manufacturing Company, Waterbury, Conn. Curtain loop or holder	287,234	Oct. 23	1846	505	25	354
Chapman & Son, W. D. (See Chapman, William D., assignor.)						
Chapman, Stanley L., Winnetka, Ill. Elevator-bucket	286,590	Oct. 16	1017	275	25	201
Chapman, Stephen E. (See Stanton, Lafayette J., assignor.)						
Chapman, Thomas L., Huntington, W. Va. Telegraph-insulator	281,452	July 17	1398	384	24	258
Chapman, Thomas M., Oldtown, Me. Feed-roll for saw-mills	273,817	Mar. 13	752	204	23	971
Chapman, William D., Theresa, N. Y. Oil-safe	285,967	Oct. 2	237	67	25	45
Chapman, William D., assignor to W. D. Chapman & Son, Theresa, N.Y. Bird-cage spring	279,081	June 5	573	157	23	2222
Chapman, William H. (See Peck and Chapman.)						
Chapman, William H., assignor of one-half to C. C. Peck, Middlebury, Vt. Commutator for electric apparatus	278,881	June 5	282	82	23	2171
Chappel, Alonzo, Brooklyn, N. Y. Linearscope	281,020	July 10	839	233	24	155
Chappell, Chase, Maxwell and Company. (See Maxwell and Quint, assignors.)						
Chappell, Edwin B., Bradford, Pa. Self-watering flower-vase	283,966	Aug. 28	1811	512	24	853
Chappell, George F., New York, N. Y. Self-feeding machine for coating pills	272,207	Feb. 13	772	214	23	585
Chappell, George F., New York, N. Y. Pill-coating machine	281,973	July 24	2061	565	24	377
Chappell, Philip E., Baltimore, Md. Chair-seat	277,544	May 15	1274	341	23	1857
Charbonean, Pascal B., assignor of two-thirds to H. A. Fraser and J. B. Barber, Bay City, Mich. Saw-swage	287,363	Oct. 23	2002	545	25	382
Charles, Charles C., Chicago, Ill. Foot and scenic lamp	282,497	Aug. 7	21	6	24	504
Charles, Robert, Buffalo, N. Y. Pen-rack	277,003	May 8	615	161	23	1737
Charmbury, Henry, Newark, N. J. Sewing-machine	276,560	May 1	17	5	23	1630

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Charmock, John. (See Klima, Martin, assignor.)						
Charnley, James A., Providence, R. I. Machine for engraving wire	290,318	Dec. 18	1176	399	25	1110
Charon, Wilfred L. (See Cyr, Oliver, assignor.)						
Charsley, Robert H., Oxford, county of Oxford, England. Tricycle	284,612	Sept. 11	556	157	24	1004
Charter, John, Sterling, Ill. Gas-engine	270,202	Jan. 9	441	130	23	97
Charter, John, Sterling, Ill. Gas-engine	270,203	Jan. 9	445	131	23	98
Chase, Albert, Boston, assignor of one-half to C. A. Wellington, Lexington, Mass. Tile-fastening	282,164	July 31	2316	636	24	425
Chase, Albert, Boston, assignor to C. A. Wellington, Lexington, Mass. Fire-place grate	286,176	Oct. 9	487	135	25	101
Chase, Andrew J., Boston, Mass. Process of and apparatus for curing articles of food	275,145	Apr. 3	347	95	23	1286
Chase, Andrew J., Boston, Mass. Butter-dish	275,587	Apr. 10	936	254	23	1394
Chase, Andrew J., Boston, Mass. Manufacture of artificial butter	286,778	Oct. 16	1256	340	25	243
Chase, Charles A. (See Collyer, William C., assignor.)						
Chase, Charles D., St. Louis, Mo. Apparatus for extracting gluten from the waste water of starch-works	289,979	Dec. 11	755	213	25	1027
Chase, Edward M., assignor to E. L. Motte, Boston, and H. N. Glover, Milton, Mass., trustees. Pneumatic railway-signal	275,019	Apr. 3	177	48, 49	23	1256
Chase, Frank, Boston, Mass. Reversing and cut-off valve	279,912	June 26	1603	450	23	2419
Chase, George F., Lowell, Mass. Shoe	274,721	Mar. 27	1902	531	23	1185
Chase, George S., New York, N. Y., assignor of one-half to F. Armstrong, Bridgeport, Conn. Tripod	281,239	July 17	1125	310	24	212
Chase, Henry F. (See Warren and Packard, assignors.)						
Chase, Horace, *et al.* (See Chase, Milton, assignor.)						
Chase, Horace P., Lowell, assignor of one-half to G. Draper & Sons, Hopedale, Mass. Yarn-catcher and guide-eye for spinning-machines	270,179	Jan. 2	412	120	23	84
Chase, Horace P., Lowell, assignor of one-half to G. Draper & Sons, Hopedale, Mass. Thread-guide for spinning-machines	275,020	Apr. 3	187	50	23	1257
Chase, Horace P., Lowell, assignor of one-half to G. Draper & Sons, Hopedale, Mass. Spindle-bearing	285,968	Oct. 2	238	67	25	45
Chase, J. S. (See Ball, Jacob, assignor.)						
Chase, James, Rochester, N. Y. Slide-knife lathe	289,978	Dec. 11	752	212, 213	25	1096
Chase, John H., Rochester, N. Y. Grain-car unloader	277,460	May 15	1175	315	23	1841
Chase, John H., Rochester, N. Y. Cylinder for grain-scourers	288,309	Nov. 13	642	176	25	628
Chase, Lucius C., Boston, Mass. Bridle	278,882	June 5	283	89	23	2172
Chase, Lucius C., Boston, Mass. Snap-hook	288,774	Nov. 20	1242	341	25	738
Chase, Milton, Haverhill, assignor of two-thirds to E. De La Granja and H. Chase, Boston, Mass. Tire for vehicle-wheels	271,194	Jan. 23	1689	487	23	337
Chase, Oliver R., Boston, Mass. Machine for molding or shaping confectionery and other plastic materials	279,131	June 12	660	181	23	2246
Chase, Oliver R., Boston, Mass. Machine for molding or shaping confectionery and other plastic materials	279,132	June 12	662	181, 182	23	2246
Chase, Oliver R., Boston, Mass. Machine for molding, shaping, and combining confectionery and other plastic materials	279,133	June 12	664	182, 183	23	2247
Chase, Oliver R., Boston, Mass. Lozenge-machine	279,913	June 26	1604	450, 451	23	2419
Chase, Oren M., Detroit, Mich. Horseshoe	279,223	June 12	759	210	23	2263
Chase, Rolla M., Bethel, Vt. Fire-escape	277,902	May 22	1807	493	23	1956
Chase, Stephen H., San José, Cal. Device for dressing saw-teeth	272,530	Feb. 20	1195	333	23	663
Chase, Walter G. (See Williamson, George, assignor.)						
Chase, Walter G., *et al.* (See Williamson, George, assignor.)						
Chase, Warren A., Boston, Mass. Refrigerating-car	289,977	Dec. 11	750	212	25	1026
Chase, Whitman, North Dighton, Mass. Fire-escape	278,655	May 29	2659	727	23	2113
Chassé, Joseph G., assignor to B. Fagnant and M. A. B. Chassé, Springfield, Mass. Electric light	279,224	June 12	760	210	23	2263
Chassé, Marie A. B., *et al.* (See Chassé, Joseph G., assignor.)						
Chatain, Amand J. B. A., New York, N. Y. Flooring	283,375	Aug. 21	1101	310	24	711
Chatfield, Eben S., Hyde Park, Pa. Expansible wheel	269,916	Jan. 2	109	32	23	23
Chatillon, George H., assignor to J. P. and G. H. Chatillon, New York, N. Y. Scale-pan	271,790	Feb. 6	249	69	23	484
Chatillon, John P., *et al.* (See Chatillon, George H., assignor.)						
Chaumont, Jules. (See Milligan and Chaumont.)						
Chaumont, Jules, Wood Haven, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Handle for covers of vessels	276,772	May 1	315	82	23	1690
Chaumont, Jules, Wood Haven, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Machinery for sheet-metal spinning	286,115	Oct. 2	414	113	25	76
Chaumont, Jules, Wood Haven, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Wrought and sheet iron vessel	287,624	Oct. 30	2353	635	25	456
Chauvet, Joseph J. M., New York, N. Y. Machine for making sewing-machine needles	273,027	Feb. 27	1629	512, 513	23	781
Chaux, Louis, Paris, France. Manufacturing woolen fabric from short-staple fiber	288,015	Nov. 6	291	.....	25	557
Chavers, Elizabeth, Siddon, Mich. Sewing-machine shuttle	281,453	July 17	1398	384	24	258
Chedister, Winfield S., Newark, N. J., assignor of one-half to J. S. Cooley, New York, N. Y. Permutation-lock	273,466	Mar. 6	292	80	23	883
Chedister, Winfield S., Newark, N. J., assignor of one-half to J. S. Cooley, New York, N. Y. Permutation-padlock	286,903	Oct. 16	1415	389	25	270
Cheeney, Nathaniel J., East Greenwich, R. I. Car-coupling	281,974	July 24	2062	565	24	378
Cheesman, Charles D., Ansonia, Conn. Suspenders	276,352	Apr. 24	1908	530	23	1577
Cheesman, Frederick E., Flushing, N. Y. Decorating ceilings and walls	289,811	Dec. 11	549	153	25	989
Cheever, Charles A. (See Rose and Cheever.)						
Cheever, Charles A., trustee. (See Vander Weyde, Peter H., assignor.)						
Cheever, Charles A., New York, N. Y. Electro-magnetic dispatch-tube	282,165	July 31	2318	636, 637	24	425
Cheever, John D., New York, N. Y. Cover for floors and for other purposes	285,343	Sept. 18	1446	.....	24	1168
Cheever, Joseph H., Somerville, Mass. Telephone-transmitter	281,240	July 17	1126	310	24	212
Chellis, Edgar W. (See Drawbaugh, Daniel, assignor.)						
Chemical Fire Company. (See McAllister, Guy W., assignor.)						
Chenet, Prosper, Paris, France. Machine for branding bottle-corks	283,567	Aug. 21	1328	371	24	752
Cheney, Charles W., Athol, Mass. Mowing-machine	278,508	May 29	2482	677, 678	23	2082
Cheney, John L., Lowell, Mass. Spool and bobbin	290,534	Dec. 18	1474	407	25	1161
Cherney, Jacob, Denver, Colo. Hand drilling-machine	275,885	Apr. 17	1331	366	23	1470
Cherry, Cummings, Sr., Chicago, Ill. Retort-furnace for roasting ores	290,212	Dec. 18	1038	292	25	1086
Cherry, Cummings, Sr., Chicago, Ill. Desulphurizing and purifying ores preparatory to smelting	290,213	Dec. 18	1040	293	25	1087

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Cherry, Cummings, Sr., Chicago, Ill. Apparatus for roasting and preparing ores for smelting	290,214	Dec. 18	1042	283	25	1067
Cherry, Cummings, Sr., Chicago, Ill. Purifying iron ore preparatory to smelting	290,215	Dec. 18	1045	294	25	1067
Cherry, John G., Cedar Rapids, Iowa. Can for transporting milk and cream	282,844	Aug. 7	443	125	24	578
Cherry, Peterson H., Parsons, Kans. Lemonade-mixer	288,775	Nov. 20	1213	341	25	738
Chertemps, Alexandre, and L. Danden, Paris, France. Dynamo-electric machine	270,017	Jan. 2	224	65, 66	23	46
Chesebrough, Frederick, assignor to Ithaca Calendar Clock Company, Ithaca, N. Y. Calendar-clock	283,568	Aug. 21	1329	371	24	752
Chesebrough, Robert A., New York, N. Y. Safety appliance for elevators	286,684	Oct. 16	1141	307	25	229
Cheanut, Robert, Richmond, Ind. Truck for moving reapers	271,221	Jan. 30	1722	499	23	352
Chess, Harvey B. (See Chess, Henry and H. B.)						
Chess, Henry and H. B., Pittsburg, Pa. Gage for metal sheets	289,503	Dec. 4	166	45	25	915
Chess, Henry and H. B., Pittsburg, Pa. Roll-brasses and making the same	290,535	Dec. 18	1475	407	25	1161
Chester, William F., New York, N. Y. Electric burglar-alarm attachment for automatic signaling apparatus	280,578	July 3	291	80, 81	24	52
Chesterman, Edwin, Philadelphia, Pa. Passenger-car	269,917	Jan. 2	110	33	23	23
Chestnut, John W. (See Banks and Chestnut.)						
Chevalier, Frank, Lexington, Ky. Plow	288,776	Nov. 20	1243	341	25	739
Chevallot, Nicolas A. B., Paris, France. Filtering apparatus	289,980	Dec. 11	756	213	25	1027
Chevassus-Clément, Emile, Paris, France. Manufacture of artificial gems or precious stones	270,018	Jan. 2	226	66	23	47
Chew, Charles F., Bridgeport, Conn. Lamp	285,393	Sept. 25	1515	427	24	1185
Chew, Charles F., Philadelphia, Pa. Portable turn-table	288,408	Nov. 13	789	214	25	653
Chicago Attachment Company. (See Griest, John M., assignor.)						
Chicago Gas Apparatus Manufacturing Company. (See Ransom, Newman A., assignor.)						
Chicago Stamping Company. (See Kasson, Amasa C., assignor.)						
Chilcote, John W., *et al.* (See Chilcote, Stephen H., assignor.)						
Chilcote, Robinson F., *et al.* (See Chilcote, Stephen H., assignor.)						
Chilcote, Samuel F., *et al.* (See Chilcote, Stephen H., assignor.)						
Chilcote, Stephen H., assignor of one-half to R. F., J. W., and S. F. Chilcote, Sego, Ohio. Combined can-opener and corkscrew	283,967	Aug. 28	1812	512	24	853
Chilcott, Amon W., Mattoon, Ill. Gate	272,646	Feb. 20	1343	377	23	690
Child, Cyril C., Boston, Mass. Friction-clutch	270,636	Jan. 16	1001	289	23	212
Child, Cyril C., Boston, Mass. Paper-cutting machine	274,273	Mar. 20	1321	{364 {365	23	1077
Childers, John F. (See Richardson, Francis M., assignor.)						
Children, Arthur G. (See Burrows, William T., assignor.)						
Children, Edwin, East Dubuque, Ill. Cultivator-shovel	271,791	Feb. 6	250	70	23	484
Childs, Albert F. (See Conover, Jacob A., assignor.)						
Childs, Edward H., and C. R. Powell, Bellaire, Ohio. Blown-glassware manufacture	275,999	Apr. 17	1457	402	23	1493
Childs, Edwin B., Rockford, Ill. Neck-yoke	278,400	May 29	2348	642	23	2058
Childs, J. Wallace, Chicago, Ill., assignor, by mesne assignments, to Washburn & Moen Manufacturing Company, Worcester, Mass. Barbed fence	285,229	Sept. 18	1316	371	24	1144
Childs, William, Brooklyn, N. Y. Folding center-board	278,776	June 5	124	35	23	2145
Childs, William A. (See Shaw and Childs.)						
Chiles, Hiram C., Rogers, Ark. Animal-shears	281,454	July 17	1399	384	24	259
Chinnock, Charles E., Brooklyn, N. Y. Suspending cables or conductors	274,562	Mar. 27	1719	477	23	1152
Chinnock, George H., Brooklyn, N. Y. Ornamenting glass lamps	272,946	Feb. 27	1736	485	23	765
Chinnock, George H., and J. G. Stephens, Brooklyn, N. Y.; said Chinnock assignor to C. V. Ware. Carpet-lining	277,832	May 15	1608	439	23	1916
Chinnock, George H., Brooklyn, N. Y., assignor to himself, A. Sichel, and J. Lemon. Manufacture of metal	286,904	Oct. 16	1417	.....	25	270
Chipman, William W., Brooklyn, assignor of two-thirds to W. Courtenay and J. C. Tiffany, New York, N. Y. Manufacture of steel	287,235	Oct. 23	1847	.....	25	354
Chisholm, John A., Sauk Centre, Minn. Snow-plow	286,779	Oct. 16	1258	340	25	243
Chittenden, Harriet M., New York, N. Y. Garment-protector	290,319	Dec. 18	1177	330	25	1110
Chivill, John. (See Webster and Chivill.)						
Chivill, John, assignor to Webster & Comstock Manufacturing Company, Chicago, Ill. Screw-conveyer coupling	289,751	Dec. 4	477	135	25	970
Choate, Warren. (See Bawsel, Edward E., assignor.)						
Chorlton, Isaac, Jr. (See Hodgson, Alfred, assignor.)						
Christ, Benjamin F., Peabody, Kans. Check-rower and drill for corn-planters	272,855	Feb. 27	1623	454	23	747
Christ, Benjamin F., Peabody, Kans. Harrow	284,818	Sept. 11	813	227	24	1048
Christensen, Christoffer A., Willamina, Oreg. Centrifugal pump	288,409	Nov. 13	790	214	25	653
Christensen, William O., Marshfield, Oreg. Center-board	276,353	Apr. 24	1910	530	23	1577
Christian, John B., Hamburg, Iowa. Cultivator	284,379	Sept. 4	267	74	24	949
Christian, John B., Hamburg, Iowa. Cultivator	284,380	Sept. 4	268	75	24	949
Christie, Andrew J. (See Christie, James J., assignor.)						
Christie, James J., assignor of one-half to A. J. Christie, Camden, N. J. Bottle-stopper	283,569	Aug. 21	1332	371	24	752
Christie, Jonathan S., Boston, Mass. Safe	270,888	Jan. 23	1312	379	23	276
Christie, Richard, Truro, Nova Scotia, Canada. Fire-escape	285,230	Sept. 18	1317	371	24	1144
Christman, Augustus G., Litiz, Pa. Plow	275,354	Apr. 10	637	170	23	1343
Christman, Augustus G., Litiz, Pa. Feed-cutter	282,052	July 31	2162	593	24	400
Christman, Charles, *et al.* (See Schunk, Henry, assignor.)						
Christmas, William W., Washington, D. C., and F. B. Jonas, New Orleans, La. Cartridge implement	290,973	Dec. 25	2052	565	25	1267
Christopher, Calvin F., and R. B. Alexander, Spartanburg, S. C. Tether	274,462	Mar. 27	1574	431	23	1128
Christy, George H., *et al.* (See Haskin, Uri, assignor.)						
Christy, George H., trustee. (See Greer, Howard, assignor.)						
Christy, Loudon, Holly Springs, Miss. Two-wheeled vehicle	281,670	July 24	1672	456	24	309
Christy, Thomas J., Olney, assignor to F. M. Goodall, Marion, Ill. Railway-chair and joint	271,573	Jan. 30	2171	625	23	430
Chubb, Thomas H., Post Mills, Vt. Fishing-rod tip	277,230	May 8	898	239	23	1786
Chubb, Thomas H., Post Mills, Vt. Fishing-reel	282,270	July 31	2449	674	24	447
Church, Andrew J., Sherborn, Mass. Carriage-jack	287,625	Oct. 30	2354	635	25	456
Church, Charles B., Washington, D. C. Ice cutter and harvester	281,751	July 24	1778	484	24	328
Church, Charles B., Washington, D. C. Ice-harvester	281,752	July 24	1779	{484 {485	24	328
Church, Duane H., Chicago, Ill., assignor to American Watch Company, Waltham, Mass. Stem-winding watch	280,719	July 3	455	130	24	81
Church, Emily R. (See Henninger, Julius, assignor.)						
Church, George W., Roseville, N. J. Micrometer-gage	278,094	May 22	1926	528	23	1977
Church, Henry A. (See Field and Halkyard, assignors.) (Reissue.)						
Church, Henry A. (See Halkyard, William, assignor.)						
Church, Henry A., Providence, R. I. Roller-chain cap	289,618	Dec. 4	304	85	25	941

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Church, Henry B., Grand Rapids, Mich. Fire-escape	283,968	Aug. 28	1813	513	24	853
Church, James, St. Louis, Mo. Bung	275,588	Apr. 10	937	255	23	1394
Church, Louis J., Washington, D. C. Fan attachment for sewing-machines	278,683	June 5	9	3	23	2126
Church, Thomas T., Fort Hamilton N. Y. Fire-escape	289,220	Nov. 27	1783	494	25	843
Church, Walter W., Carthage, Mo. Check-row corn-planter	280,619	Dec. 4	305	85	25	941
Churchill, James T., St. Joseph, Mo. Support for swinging or pendent scaffolds	288,977	Nov. 27	1492	413	25	792
Churchill, Lee. (See Gallup and Churchill.)						
Chute, Charles R., Minneapolis, Minn. Rein-guard	273,955	Mar. 13	918	252	23	999
Cilley, Frank H., Boston, Mass. Spring tongs or fork	284,118	Aug. 28	2023	563	24	888
Cilley, George W., Norwich, Conn. Lock for revolvers	270,204	Jan. 9	448	131	23	99
Cilley, William H. (See Maynadier, Gustavus B., assignor.)						
Cincinnati Coffin Company. (See Howdon, Robert J., assignor.)						
Cincinnati Electric Clock Company. (See Happersberger, John, assignor.)						
Cincinnati Sulky Buggy Company. (See Wood, Richard G., assignor.)						
Cizek, Martin. (See Ekl, Skala, Hoyda, and Cizek.)						
Clacry, Thomas, Greenbush, N. Y. Spinning-top	286,177	Oct. 9	488	135	25	101
Claflin, Arthur B. (See Sawyer, William A., assignor.)						
Clamer, Francis J. (See Delaplaine, Hendrickson, and Clamer.)						
Clamer, Francis J., and J. G. Hendrickson, Philadelphia, Pa. Composition to be used in fluxing and protecting molten metals	280,349	July 3	13	.....	24	4
Clamer, Francis J., assignor of one-half to J. G. Hendrickson, Philadelphia, Pa. Treating lead to impart to it the property of adhering to other metals	283,077	Aug. 14	719	.....	24	635
Clamond, Charles, Paris, France. Illuminating-burner	282,053	July 31	2163	593 594	24	400
Clancy, Patrick G., Lexington, Miss. Vehicle-spring	289,981	Dec. 11	757	213 214	25	1027
Clapham, Thomas. (See Laycock and Clapham.)						
Clapp, George A., Quincy, Mass. Fire-escape	283,755	Aug. 28	1562	440	24	808
Clapp, Harry A., and C. F. Baker, White Pigeon, Mich. Ice-elevator	286,116	Oct. 2	414	113	25	76
Clapp, Harry A., and C. F. Baker, White Pigeon, Mich. Ice-elevator	290,536	Dec. 18	1475	408	25	1161
Clapp, John W. (See Tillou and Clapp.)						
Clapp, William J., Nantyglo, and T. Griffiths, Blaenavon, county of Monmouth, England. Cupola-furnace	271,683	Feb. 6	118	32, 33	23	460
Clark, Aaron T., Dannemora, N. Y. Hat-sizing machine	278,509	May 29	2483	678	23	2083
Clark, Albert M., Marshalltown, Iowa, assignor to himself, C. F. Fogg, and J. B. Shute, Chicago, Ill. Pulley block and tackle	276,561	May 1	19	6	23	1630
Clark, Alvin B., assignor of one-half to J. B. Dougan, Richmond, Ind. Spring-hoe for cultivators	275,146	Apr. 3	349	96	23	1286
Clark, Arra F., Boston, Mass. Car-starter	274,463	Mar. 27	1575	431 432	23	1128
Clark, Augustus, *et al.* (See Harvey, Peter I., assignor.)						
Clark, Augustus, *et al.* (See Wheelock, John A., assignor.)						
Clark, Benjamin S. W., *et al.* (See Martin, William F., assignor.)						
Clark, Charles, Smyrna, Tenn. Door-bolt	279,334	June 12	904	252 253	23	2286
Clark, Charles B., Detroit, Mich. Spring-hinge	276,958	May 1	557	145	23	1721
Clark, Charles E., Belmont, N. Y. Saw-mill dog	285,969	Oct. 2	238	67	25	45
Clark, Charles T., administrator. (See Fairlamb, Charles C.)						
Clark, Charles W., Philadelphia, Pa. Window-shade pull	273,028	Feb. 27	1784	513	23	782
Clark, Charles W., assignor to L. A. Murray, Cincinnati, Ohio. Return-ball	289,221	Nov. 27	1785	494	25	844
Clark & Co., D. W. (See Chaplin, Alonzo C., assignor.)						
Clark, Cullen B., Detroit, Mich. Reclette	277,231	May 8	899	239	23	1786
Clark, Dallas P., Jersey City, N. J., assignor of one-half to R. Vose, New York, N. Y. Die for bending eyes for elliptical springs	285,231	Sept. 18	1318	371	24	1145
Clark, Daniel S., Amboy, Ill. Bed spring cover	269,918	Jan. 2	111	33	23	23
Clark, David, and T. G. Blatch, Hazleton, Pa. Valve-gear for steam-engines	276,773	May 1	316	82	23	1681
Clark, David A., assignor of one-half to F. T. Fletcher, St. Louis, Mo. Toy pistol	273,956	Mar. 13	919	252	23	999
Clark, David A., assignor of one-half to F. T. Fletcher, St. Louis, Mo. Toy pistol	281,455	July 17	1400	384	24	259
Clark, David E., *et al.* (See Pritchard, Nathaniel J., assignor.)						
Clark, Eddy L., *et al.* (See Bott, Joseph E., assignor.)						
Clark, Edward, New York, N. Y. Platform-gear for wagons	275,147	Apr. 3	350	96	23	1287
Clark, Edward, New York, N. Y. Steam-boiler furnace	282,845	Aug. 7	441	125	24	578
Clark, Edward, Jersey City, N. J. Curbstone and sidewalk conduit for electric wires	278,095	May 22	1926	529	23	1977
Clark, Edward, Cornwall, N. Y. Metallic insulating-covering for telegraph-wires	287,236	Oct. 23	1847	505	25	354
Clark, Edward, Cornwall, N. Y. Gutter, curbstone, and sidewalk conduit for electric wires.	287,237	Oct. 23	1848	505 506	25	354
Clark, Egbert B. (See Sammons, Thomas J., assignor.)						
Clark, Elijah C., Cannelton, Ind. Coping for walls	278,656	May 29	2659	727	23	2113
Clark, George. (See Maliphant, Charles, assignor.)						
Clark, George, Brooklyn, N. Y. Button-hook	277,232	May 8	900	240	23	1786
Clark, George, Marinette, Wis. Steam-feed works for saw-mills	275,800	Apr. 17	1229	336	23	1451
Clark, George, and W. J. Taylor, Marinette, Wis. Steam set-works for saw-mills	275,468	Apr. 10	796	215 216	23	1370
Clark, George, assignor of one-eighth to C. Teuscher, West Troy, N. Y. Steam-radiator	286,780	Oct. 16	1259	340	25	243
Clark, George B., Bethesda, Ohio. Hand seed-planter	287,626	Oct. 30	2355	635	25	456
Clark, George E., Kingman, Me. Baking-pan	277,679	May 15	1434	386	23	1884
Clark, George H., Manville, R. I. Tool for connecting and disconnecting the ends of belts	287,417	Oct. 30	2072	563	25	402
Clark, George K. (See Murphy, Daniel H., assignor.)						
Clark, George L. (See Sloan, William D., assignor.)						
Clark, George L., Meriden, Conn. Horse-whipping device	276,158	Apr. 24	1659	458	23	1535
Clark, George M. (See Harris and Clark.)						
Clark, George T., Delmar, Iowa. Socket for fence-posts	275,801	Apr. 17	1230	337	23	1452
Clark, Guy M., *et al.* (See Martin, William F., assignor.)						
Clark, Henry. (See Ball and Clark.)						
Clark, Henry, assignor of two-thirds to F. W. Erbacher and C. Helms, Jr., Milwaukee, Wis. Car-starter	280,450	July 3	140	38	24	26
Clark, Henry, assignor of two-thirds to F. W. Erbacher and C. Helms, Jr., Milwaukee, Wis. Car-starter	288,016	Nov. 6	291	82	25	557
Clark, Henry F., Poughkeepsie, N. Y. Patched bullet and making the same	286,387	Oct. 9	763	207	25	149
Clark, James B. (See Kendall, Francis B., assignor.)						
Clark, James M. (See Platt, Benjamin G., assignor.)						
Clark, James T., Bath, Cal. Stone-drilling machine	271,792	Feb. 6	251	70	23	484
Clark, James W., Etna, Ohio. Mechanical telephone	289,620	Dec. 4	306	85, 86	25	941

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Clark, Jennie M., Manchester, N. H. Garment-protector	271,037	Jan. 23	1493	430	23	305
Clark, John, Silchester Road, Kensington, county of Middlesex, England. Reducing metals from their ores	277,884	May 22	1677	458	23	1934
Clark, John, Silchester Road, Kensington, county of Middlesex, England. Reducing metals from their ores	277,885	May 22	1678	458	23	1934
Clark, John, New York, N. Y. Clearer for pipes	283,205	Aug. 14	876	244	24	663
Clark, John K., Buffalo, N. Y. Spring-hinge	276,000	Apr. 17	1459	402	23	1493
Clark, John K., Buffalo, N. Y. Lock-hinge	277,680	May 15	1434	387	23	1884
Clark, John K., Buffalo, N. Y. Knob attachment	284,381	Sept. 4	269	75	24	950
Clark, John L. (See Weber, Theodore A., assignor.)						
Clark, John W., *et al.* (See Baker, Loring J., assignor.)						
Clark, Joseph, Brooklyn, N. Y. Vehicle-wheel	289,919	Jan. 2	112	33	23	23
Clark, Joseph, Brooklyn, N. Y. Metallic railway-tie	270,637	Jan. 16	1002	289	23	218
Clark, Joseph, Green Point, N. Y. Alarm-signal for railway-tracks	285,571	Sept. 25	1719	486	24	1223
Clark, Josiah L. (See Hill and Clark.)						
Clark, Levi S., assignor to himself, O. G. Franks, and G. T. Baughman, Doylestown, Ohio. Two-wheeled vehicle	286,905	Oct. 16	1419	389	25	271
Clark, Lewis E., Lynn, Mass. Bell	287,238	Oct. 23	1850	506	25	354
Clark, Milton. (See Elliott, Gilbert R., assignor.)						
Clark, Milton, assignor to Continental Cash Car Company, Baltimore, Md. Cash and parcel carrying system	290,175	Dec. 11	984	278	25	1069
Clark, Moses M., New Haven, Conn. Car-brake	279,914	June 26	1607	452	23	2419
Clark, Nathan B., Philadelphia, Pa. Deflecting-armor for war-ships	282,498	Aug. 7	22	6, 7, 8	24	504
Clark, Norman, Sterling, Ill. Folding table	270,388	Jan. 9	678	201	23	142
Clark, Norman, Sterling, Ill. Alcohol-lamp	279,915	June 26	1608	452	23	2419
Clark, Ogden C., Newton, Mass. School-chair	275,021	Apr. 3	188	50	23	1257
Clark, R. Neilson, and N. H. Cone, Leadville, Colo. Ore-concentrating table	285,970	Oct. 2	240	67, 68	25	46
Clark, Richard (See Wills, Samuel, assignor.)						
Clark, Richard S., *et al.* (See Carter and Smith, assignors.)						
Clark, Robert A., Liverpool, county of Lancaster, England. Potato digging and separating machinery	271,601	Feb. 6	23	6	23	444
Clark, Robert S., Helena, Mont. Ter. Whiffletree-clip	288,922	Nov. 20	1417	390	25	771
Clark, Robert W., Buffalo, N. Y. Steam-trap and boiler-feeder	289,388	Dec. 4	18	6	25	890
Clark, Rollin C., and W. F. Beecher, Cleveland, Ohio. Distilling petroleum	275,589	Apr. 10	937	255	23	1395
Clark, Rollin C., Corry, Pa., and W. F. Beecher, Cleveland, Ohio. Oil-filter	287,627	Oct. 30	2356	635	25	457
Clark, Rollin C., assignor to himself and M. H. Warren, Corry, Pa. Renewing bone-black	279,335	June 12	905	253	23	2286
Clark, Roswell M., McPherson, Kans. Corn-planter	289,222	Nov. 27	1785	495	25	844
Clark, Roswell M., McPherson, Kans. Wheel-plow	289,223	Nov. 27	1787	495	25	844
Clark, Samuel E., Philadelphia, Pa. Spring-gun	288,548	Nov. 13	955	262	25	682
Clark, Samuel H., Cincinnati, Ohio, and J. G. Parsons, Oshkosh, Wis. Fifth-wheel	280,350	July 3	13	4	24	4
Clark, Samuel J., Ypsilanti, Mich. Whip-socket	279,708	June 19	1361	379	23	2369
Clark, Scott. (See Kelly, George, assignor.)						
Clark, Stephen A. D., St. Joseph, Mo. Combined chair and bed	276,774	May 1	317	83	23	1681
Clark, Thomas K., Tie Siding, Wyo. Ter. Machine for channeling harness-straps	283,570	Aug. 21	1332	372	24	753
Clark, Tolivar B., North Manchester, Ind. Broadcast hand seed-sower	275,590	Apr. 10	939	255	23	1395
Clark, Walter A. (See Phillips, George H., assignor.)						
Clark, Warren R., *et al.* (See Fickett, William S., assignor.)						
Clark, William, Brooklyn, Md. Ore-crushing machine	277,233	May 8	901	240	23	1786
Clark, William, assignor of one-half to P. Main, Baltimore, Md. Wheelbarrow	273,225	Feb. 27	2077	583	23	825
Clark, William H., Chicago, Ill. Grooming-machine	270,389	Jan. 9	678	{201 202	23	142
Clark, William H., Thomaston, Conn. Apparatus for making angular cuts in sheet-metal pipes	279,336	June 12	906	253	23	2287
Clark, William H. and W. J., Salem, Ohio. Fluid-can	272,647	Feb. 20	1344	377	23	690
Clark, William J. (See Clark, William H. and W. J.)						
Clark, William S., S. R. Farrington, and T. Sheard, Little Falls, N. Y. Tension device for sewing-machines	278,096	May 22	1927	529	23	1977
Clark, William W., Chicago, Ill. Sand-drier	278,883	June 5	284	82	23	2172
Clarke, Alexander D., New York, N. Y. Ore-concentrator	276,775	May 1	318	83	23	1681
Clarke, Alexander D., New York, N. Y. Ore-concentrator	285,232	Sept. 18	1318	372	24	1145
Clarke, Ambrose J., Brooklyn, N. Y. Marine drag	289,224	Nov. 27	1788	495	25	844
Clarke Automatic Steam Valve Company. (See Clarke, George, assignor.)						
Clarke, Charles, Ovid, assignor of one-half to T. Tandy, Detroit, Mich. Seal-lock	271,684	Feb. 6	120	33	23	460
Clarke, Charles L. (See Edison and Clarke.)						
Clarke, Charles L., assignor to R. Hewitt, Jr., New York, N. Y. Circuit and apparatus for electric temperature and pressure indicators	284,382	Sept. 4	270	76	24	950
Clarke, Charles L., assignor to R. Hewitt, Jr., New York, N. Y. Telethermometer	285,572	Sept. 25	1720	{486 487	24	1223
Clarke, Christopher, Northampton, Mass. Car-coupling	286,999	Oct. 23	1541	425	25	297
Clarke, George, assignor to Clarke Automatic Steam Valve Company, Cincinnati, Ohio. Steam-actuated valve	281,836	July 24	1893	516	24	349
Clarke, George H. (See Thompson, Richard, assignor.)						
Clarke, James D., Harvard, Ill. Mechanism for converting motion	271,421	Jan. 30	1977	571	23	397
Clarke, John A. (See Rowe, William, assignor.)						
Clarke, John J., Patapa, Peru, assignor of one-half to A. W. Colwell, New York, N. Y. Dumping-car and apparatus for transporting the same	274,439	Mar. 20	1534	423	23	1114
Clarke, John J., Patapo, Peru, assignor of one-half to A. W. Colwell, New York, N. Y. Device for connecting portable railway-tracks	287,418	Oct. 30	2073	563	25	402
Clarke, John N., assignor of two-thirds to S. T. J. Coleman and E. B. Reynolds, Cincinnati, Ohio. Horseshoe-blank roll	275,022	Apr. 3	189	50	23	1257
Clarke, John N., assignor of two-thirds to S. T. J. Coleman and E. B. Reynolds, Cincinnati, Ohio. Horseshoe	285,573	Sept. 25	1724	487	24	1224
Clarke, John S., assignor to himself and J. F. Dunneback, Detroit, Mich. Feed-water apparatus for steam-boilers	276,354	Apr. 24	1910	530	23	1577
Clarke, John S., East China, assignor of one-half to J. F. Dunneback, Detroit, Mich. Feed-water regulator	276,355	Apr. 24	1912	530	23	1577
Clarke, Merritt, Poultney, Vt. Coin-tester	273,667	Mar. 6	545	146	23	927
Clarke, Robert, Brooklyn, N. Y. Plumber's trap	285,574	Sept. 25	1725	487	24	1224
Clarke, Thomas, Sheffield, county of York, England. Sheath for razors	289,389	Dec. 4	20	6	25	890
Clarke, Willard A., Stillwater, Minn. Reversing-gear for steam-engines	272,648	Feb. 20	1345	{377 378	23	691
Clarke, Willard A., assignor to Northwestern Manufacturing and Car Company, Stillwater, Minn. Exhaust-nozzle for steam-engines	270,743	Jan. 16	1139	327	23	238
Clarke, Willard A., assignor to Northwestern Manufacturing and Car Company, Stillwater, Minn. Cut-off valve	270,744	Jan. 16	1140	327	23	238

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Clarke, Willard A., assignor to Northwestern Manufacturing and Car Company, Stillwater, Minn. Steam-engine cylinder	270,875	Jan. 16	1290	372	23	266
Clarke, Willard A., assignor to Northwestern Manufacturing and Car Company, Stillwater, Minn. Water-gage	278,223	May 22	2094	576	23	2006
Clarke, Willard A., Stillwater, Minn., assignor to Northwestern Manufacturing and Car Company. Traction-engine	286,906	Oct. 16	1419	390	25	271
Clarke, William E., St. Louis, Mo. Cleaning compound	289,621	Dec. 4	308	.....	25	942
Clarke, William M. (See Dassau, Edward, assignor.)						
Clarkson, Frank M., *et al.* (See Taylor, Harrison H., assignor.)						
Clarkson, Frank S., assignor to F. B. Sloan, Baltimore, Md. Lock	281,615	July 17	1598	437	24	291
Clarkson, Frank S., assignor to F. B. Sloan, Baltimore, Md. Friction-hinge	290,398	Dec. 18	1276	359	25	1128
Clarkson, George C., *et al.* (See Taylor, Harrison H., assignor.)						
Clarkson, Joseph T., Amesbury, Mass. Two-wheeled vehicle	272,208	Feb. 13	773	214	23	585
Clarkson, Joseph T., Amesbury, Mass. Harrow-tooth	282,054	July 31	2164	594	24	400
Clarkson, William R., Buffalo, N. Y. Ratchet bit-brace	286,388	Oct. 9	764	207	25	149
Clary, Stephen. (See Brown, Thomas H., Jr., assignor.)						
Clason, William P., U. S. Navy, assignor to J. G. Berret, Washington, D. C. Sash-holder	280,292	June 26	2059	579	23	2499
Class, John, Canton, Ohio. Saw-handle	274,274	Mar. 20	1324	365	23	1078
Class, John, Canton, Ohio. Saw-handle	280,579	July 3	293	81	24	52
Classen, Alexander, Aachen, Germany. Electroplating	273,467	Mar. 6	295	.....	23	883
Claudon, Gustav, and C. Vigreux, Paris, France. Production and collection of fertile yeast from juices of grain, &c	279,337	June 12	907	.....	23	2287
Claudon, Joseph A. I., Paola, Kans. Steam-cock and check-valve	279,338	June 12	909	253	23	2287
Claus, Adolph, assignor of one-half to J. S. Ludlam, Lowell, Mass. Loom-shuttle	280,797	July 10	578	161	24	109
Claus, Carl F., London, England. Manufacture of a white pigment	272,375	Feb. 13	977	.....	23	622
Clause, John J., Chicago, Ill. Paper-dampening machine	286,591	Oct. 16	1017	276	25	201
Clausen, Adler C., assignor of one-half to J. C. Slafter, Minneapolis, Minn. Escapement and regulator	286,531	Oct. 9	937	252	25	181
Clausen, James, San Luis Obispo, Cal. Plow	285,463	Sept. 25	1598	449	24	1200
Claussen, Henry, and T. Staeber, Ellinwood, Kans. Coal-chute	280,133	June 26	1870	527	23	2466
Clawson, Clement C., Newark, N. J. Curtain-roller	278,884	June 5	286	82	23	2172
Clawson, Leonard E., San Francisco, Cal. Portable chimney	285,119	Sept. 18	1181	331	24	1130
Clawson, S. P., *et al.* (See See, James W., assignor.)						
Clay, Alonzo C., *et al.* (See Benner, Lorenzo D., assignor.)						
Clay, Cyrus C., Dunnings, Pa. Brake-lock	281,222	July 10	1096	303	24	201
Clay, Henry, Philadelphia, Pa. Telephone	277,112	May 8	760	200	23	1762
Clay, Henry, Philadelphia, Pa. Switch-board for telephones	280,351	July 3	15	4	24	5
Clay, Henry, Philadelphia, Pa. Telephone call-bell	280,451	July 3	141	38	24	27
Clay, Henry, Philadelphia, Pa. Transmitter for telephones	280,580	July 3	294	81	24	53
Clay, Henry, Philadelphia, Pa. Telephonic transmitter	288,017	Nov. 6	292	82	25	557
Clay, Henry, assignor of one-half to J. B. Apple, Philadelphia, Pa. Underground conduit for electric wires	275,023	Apr. 3	190	50	23	1258
Clay, Robert J., Jersey City, N. J. Escapement	286,685	Oct. 16	1143	307, 308	25	223
Clay, Robert J., Jersey City, N. J., assignor to G. F. Seward and O. B. Bradford, New York, N. Y. Carriage-clock	277,234	May 8	901	240	23	1787
Clay, William W., Paris, Ontario, Canada. Knitting-machine	277,004	May 8	616	161, 162	23	1738
Clayton, George W., assignor of one-half to Barrett Machine Company, Cleveland, Ohio. Elevator	287,802	Nov. 6	16	5	25	510
Clayton, Henry. (See Wigmore, William H., assignor.)						
Clayton, Henry, Dayton, Ohio. Harvester-truck	288,208	Nov. 13	517	144	25	607
Clayton, William, St. Louis, Mo. Car-brake	289,982	Dec. 11	759	214	25	1027
Clayton, William M. (See Jones, William C., assignor.)						
Clear, Justin H., Mazeppa, Minn. Hame-tug clip	290,399	Dec. 18	1277	359	25	1128
Cleaves, N. Porter, Boston, Mass. Safety attachment for elevators	272,413	Feb. 20	1047	294	23	638
Cleaveland, William B., Bridgeport, Conn. Car-starter	281,975	July 24	2063	565	24	378
Cleeland, William M., McCauleyville, Minn. Hoof-trimmer	271,038	Jan. 23	1493	430	23	305
Cleland, A. Vincent. (See Williams, Edwin S., assignor.)						
Clem, Jackson S., *et al.* (See Fry, John, assignor.)						
Clemence, Addison B., Worcester, Mass. Wire-coating for drawing	282,055	July 31	2165	.....	24	401
Clemens, John. (See Todd, James, assignor.)						
Clemens, Julius, *et al.* (See Lindner, Ferdinand, assignor.)						
Clement, Charles E., assignor of two-fifths to C. W. Hoitt, Nashua, N. H. Automatic cutting and feeding attachment for printing-presses	287,239	Oct. 23	1850	506, 507, 508	25	354
Clement, Daniel B. (See Wetherell and Clement.)						
Clement & Dunbar. (See Dunbar, John H., assignor.)						
Clemons, George F., Springfield, Mass. Apparatus for transmitting differential rotary motion	276,776	May 1	321	83, 84	23	1681
Clemons, Thomas F., Tiverton, county of Devon, England, assignor to A. C. Baldwin, Boston, Mass. Stone-turning lathe	274,563	Mar. 27	1720	477	23	1152
Clemson, William, Middletown, N. Y. Buck-saw frame	281,837	July 24	1895	517	24	349
Clench, Frank B., Lockport, N. Y. Device for embossing photographs	269,830	Jan. 2	15	5	23	5
Clerk, William F., Boston, Mass. Fire-escape	276,669	May 1	161	41	23	1653
Cleveland Block Company. (See Ford, George A., assignor.)						
Cleveland, George H., Camden, Me. Shirt	286,781	Oct. 16	1260	341	25	243
Cleveland, John S., Neponset, Ill. Sulky-harrow	282,271	July 31	2456	674	24	448
Cleveland Non-Explosive Lamp Company. (See Hammond, William E., assignor.)						
Cleveland, Thomas B., Newark, N. J. Combined salt and pepper cup	287,628	Oct. 30	2357	636	25	457
Cleveland, William B., Cleveland, Ohio. Dynamo-electric machine	284,277	Sept. 4	149	41	24	929
Clevenger, Nelson T. (See Lantz, Michael H., assignor.)						
Cleves, William B., Brooklyn, N. Y. Hinge for sewing-machines	272,121	Feb. 13	673	183	23	568
Cliff, Edward, assignor to Cliff & Righter Company, (limited,) Oswego, N. Y. Car-spring	283,078	Aug. 14	720	202	24	635
Cliff & Righter Company. (See Cliff, Edward, assignor.)						
Clifford, Alfred W., Johnstown, Pa. Stock-car	284,819	Sept. 11	815	227	24	1048
Clifford, Charles W., trustee. (See McCoy, John A., assignor.)						
Clifford, Frank, Carson City, Nev. Automatic railway-alarm	279,225	June 12	761	210	23	2263
Clifford, James P., Brooklyn, N. Y. Air-gas machine	277,113	May 8	761	200	23	1762
Clifford, John F., Milford, and E. Corbett, Boston, Mass. Harmonic attachment for key-boards	274,464	Mar. 27	1576	432, 433	23	1129
Clifford, Joseph W. (See Clifford, Thomas G., assignor.)						
Clifford, Thomas G., Atlantic City, N. J., assignor of one-half to J. W. Clifford, New York, N. Y. Merry-go-round	288,018	Nov. 6	294	82	25	557

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr's.	Official Gazette. Vol.	Official Gazette. Page.
Clifton, Joseph E. (See Burnett and Clifton.)						
Clifton, Oliver P. (See Briggs, Marvin A., assignor.)						
Clinch, Andrew F. (See Clinch, James H., assignor.)						
Clinch, James H., Pittsburg, assignor to himself and A. F. Clinch, York, Pa. Device for riveting hollow cylinders	280,452	July 3	143	38	24	27
Clinch, Nicholas B., Green Cove Spring, Fla. Two-wheeled vehicle	287,000	Oct. 23	1543	425	25	297
Cline, George A., Philadelphia, Pa. Car-coupling	270,390	Jan. 9	682	202	23	142
Cline, George J., Goshen, Ind. Roofing-knife or tinner's scraper	272,649	Feb. 20	1346	378	23	691
Cline, George J., Goshen, Ind. Sliding-jaw wrench	281,456	July 17	1401	385	24	259
Cline, James E., *et al.* (See Cline, John B., assignor.)						
Cline, John B., Jefferson, Iowa, assignor one-half to F. Thompson, J. E. Cline, O. R. Gray, and E. F. Billings. Machine for applying barbs to fence-wires	279,339	June 12	909	254, 255	23	2287
Cline, John B., assignor to Boone Steel Barb Wire Company, Jefferson, Iowa. Barbed fence-wire	290,974	Dec. 25	2053	565	25	1267
Cline, Oliver W., Frohna, Mo. Saddle adjuster and fastener	289,225	Nov. 27	1789	495	25	845
Clingman, Joseph L., Cynthiana, Ky. Nut-lock for rail-joints	273,029	Feb. 27	1834	513	23	783
Clingman, Thomas L., Asheville, N. C. Incandescent electric light	276,133	Apr. 17	1627	448	23	1521
Clinton, De Witte, Lemoore, Cal. Combined seeder and harrow	286,263	Oct. 9	592	162	25	118
Clinton, P. F., *et al.* (See Henry, John C., assignor.)						
Clinton Wire Cloth Company. (See Waters, Charles H., assignor.)						
Cloak, Bickley W., assignor of one-half to J. Cloak, Dayton, Ohio. Car-coupling	274,908	Apr. 3	20	6	23	1230
Cloak, John. (See Cloak, Bickley W., assignor.)						
Clock, Jesse M., New York, N. Y. Refrigerator	274,275	Mar. 20	1324	366	23	1078
Clock, Jesse M., New York, N. Y. Refrigerator	274,276	Mar. 20	1326	366	23	1078
Cloes, Benjamin J., Lake Bluff, assignor of one-half to A. B. Pullman, Chicago, Ill. Door-hanger	285,575	Sept. 25	1726	488	24	1224
Clooney, Joseph, New York, N. Y. Extension-table	276,159	Apr. 24	1660	458	23	1535
Close, Gideon A., Bridgeport, Conn. Device for clamping patterns on goods	288,410	Nov. 13	791	214, 215	25	653
Close, Thomas J., Philadelphia, Pa. Button	277,006	May 8	618	162	23	1738
Closset, Mathieu, Liege, Belgium. Preserving meat	275,148	Apr. 3	350	96	23	1287
Clother, Jane A., Cumberland, Wis. Hair-crimper	273,957	Mar. 13	920	252	23	999
Clothier, Henry R., J. Grogan, and J. McMullen, Philadelphia, Pa. Composition paint for metallic surfaces	286,117	Oct. 2	415	.....	25	76
Clotworthy, William P., Baltimore, Md. Baking-powder	273,958	Mar. 13	921	.....	23	999
Clotworthy, William P., Baltimore, Md. Preserving edible animal fats	284,184	Sept. 4	33	.....	24	910
Cloud, John W. (See Ely, Cloud, and Wall.)						
Cloud, John W., Altoona, Pa. Fuel-feeding device for locomotives	289,226	Nov. 27	1790	496	25	845
Cloud, William H., Detroit, Mich., assignor to C. Styer, Kokomo, Ind. Bench-vise	288,549	Nov. 13	956	263	25	682
Clough, Enos M., Lake Village, assignor of one-half to A. R. Tinkham, Lancaster, N. H. Latch for sliding doors	275,149	Apr. 3	351	96	23	1287
Clough Manufacturing Company. (See Clough, W. Rockwell, assignor.)						
Clough, Milo M., Carlisle, Iowa. Corn planter and marker	290,320	Dec. 18	1178	330	25	1110
Clough, William R., New York, N. Y. Buckle	286,264	Oct. 9	593	162	25	119
Clough, William R., Brooklyn, assignor of one-half to B. Goodman, New York, N. Y. Hose-supporter	288,161	Nov. 6	453	126	25	587
Clough, W. Rockwell, Newark, N. J. Binder or holding device	276,001	Apr. 17	1460	402	23	1493
Clough, W. Rockwell, Newark, N. J., assignor to Clough Manufacturing Company, of New Jersey. Binder or holding device	272,650	Feb. 20	1347	378	23	691
Clous, George W., Reading, Pa. Show-case	272,209	Feb. 13	774	214	23	586
Clow, Adam S., Wheatland, Ill. Grain-binder	274,909	Apr. 3	20	6	23	1230
Clow, Lewis E., assignor of one-half to J. Beckwith, St. Louis, Mo. Lamp-wick	285,971	Oct. 2	241	68	25	46
Clow, William M., Wheatland, Ill. Wire-fence nail	279,113	June 5	633	172	23	2231
Clow, William M., Wheatland, Ill. Barbed fence-wire	285,014	Sept. 18	1060	296	24	1100
Clow, William M., Wheatland, Ill. Barbed wire for fences	287,803	Nov. 6	17	6	25	510
Clowes, George H., *et al.* (See Stever, Jeremiah, assignor.)						
Clowes, George H., and E. L. Frisbie, Jr., Waterbury, Conn. Fire-escape	271,422	Jan. 30	1977	571	23	397
Clowes, George H., and E. L. Frisbie, Jr., Waterbury, Conn. Fire-escape	283,969	Aug. 28	1813	513	24	854
Cloyes, James H., assignor of one-half to C. B. Hitchcock, Cortland, N. Y. Top-prop	282,611	Aug. 7	164	49	24	529
Clucus, William, Cleveland, Ohio. Carriage-top	273,959	Mar. 13	921	253	23	999
Cluett, Brother & Co., George B. (See Norton, Rowland S., assignor.)						
Cluett, Robert, Troy, N. Y. Shirt	271,574	Jan. 30	2171	625	23	430
Cluett, Robert, Troy, N. Y. Shirt	277,006	May 8	619	162	23	1738
Clutter, Albert E., Lima, Ohio. Grain-drier	283,970	Aug. 28	1815	513	24	854
Clymer, Daniel R., Reading, Pa. Fire-escape	290,630	Dec. 18	1596	438	25	1181
Coales, Samuel L., Newport-Pagnell, England. Door-latch	280,581	July 3	295	81, 82	24	53
Coas, Edward K., Philadelphia, Pa. Making metal tubes	285,576	Sept. 25	1727	488	24	1225
Coast and Harbor Defence Company. (See Graydon, James W., assignor.)						
Coates, Charles E. (See Rorebeck, Henry, assignor.)						
Coates, Henry. (See Wiener, Coates, and Wiener.)						
Coates, John, London, England. Apparatus for the manufacture of sulphate of ammonia	272,651	Feb. 20	1348	378, 379	23	691
Coates, Joseph H. (See Potts, Joseph C., assignor.)						
Coates, Thomas, and J. J. Bissicks, Bristol, county of Bristol, England. Paper-bag machine	282,166	July 31	2321	637, 638, 639, 640, 641	24	425
Coats, James & Peter. (See Watson, Thomas, assignor.)						
Coats, Samuel, Upper Merion, Pa. Thrashing-machine	283,206	Aug. 14	877	245	24	663
Cobb, Henry B., Wilmington, Del. Car-seat	277,114	May 8	762	200, 201	23	1762
Cobb, Henry B., Wilmington, Del. Car or other seats	277,115	May 8	763	201	23	1763
Cobb, Henry B., Wilmington, Del. System of laying subterranean lines of electric wires	288,310	Nov. 13	643	176	25	628
Cobb, Henry B., Wilmington, Del. Subterranean line of electric wires	288,311	Nov. 13	643	177	25	628
Cobb, Hiram, Kalamazoo, Mich. Harrow	284,278	Sept. 4	150	41	24	929
Cobb, John P., College City, Cal. Supply apparatus for feeders for thrashing-machines	276,225	Apr. 24	1737	481	23	1548
Cobb, Maria L., Natick, Mass. Oil-can	272,030	Feb. 13	555	150	23	548
Cobbett, George W., and J. E. Cunningham, Chartiers township, Allegheny county, Pa. Continuous rolling-mill	285,113	Sept. 18	1182	331	24	1190
Coble, Riley. (See Finly, James R., assignor.)						
Coburn, Augustus B., Rosedale, Kans. Device for fastening saw-clamps, &c., to work-benches	289,227	Nov. 27	1791	496	25	845
Coburn, Charles E., *et al.* (See King, George W., assignor.)						
Coburn, Daniel W., Buffalo, Tex. Car-coupling	275,150	Apr. 3	352	97	23	1287

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Coburn, Jehiel C. (See Coburn, Lemuel and J. C.)						
Coburn, John G., South Carthage, assignor to himself and G. B. Staples, Carthage, Me. Dumping-wagon	270,391	Jan. 9	683	203	23	143
Coburn, Lemuel and J. C., Worcester, Mass. Machine for cutting corsets, rags, &c	272,856	Feb. 27	1024	455	23	747
Coburn, Llewellyn H., Seneca, Kans., and E. D. Thompson, Havana, Ill. Cane stripper and header	287,240	Oct. 23	1857	508	25	355
Cochel, Charles T., Uniontown, Md. Window-shutter	287,906	Nov. 6	145	43	25	533
Cocheu, Noah L., Brooklyn, assignor to himself, T. Y. Brown, New York, and G. B. Walton, Brooklyn, N. Y., trustees. Manufacturing electrotype-rollers for imitating leather and other materials	276,777	May 1	323	84	23	1682
Cochran, Henry S., assignor to S. A. Cochran, Philadelphia, Pa. Match-safe	282,272	July 31	2451	674	24	448
Cochran, James, Lockport, N. Y. Snatch-block	279,916	June 26	1609	452	23	2420
Cochran, James, Lockport, N. Y. Bushing for sheaves of pulley-blocks	282,056	July 31	2165	594	24	401
Cochran, James, New Lots, N. Y. Spout and strainer	283,207	Aug. 14	878	245	24	663
Cochran, James, New Lots, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Coffee-pot	285,972	Oct. 2	242	68	25	46
Cochran, John, Jr., Millwood, assignor to S. A. Tague, Briscoe, Mo. Mechanical movement	281,976	July 24	2064	566	24	378
Cochran, John, Jr., Millwood, assignor to himself and J. A. Wirick, Clarksville, Mo. Car-coupling	289,228	Nov. 27	1792	496	25	845
Cochran, John B. (See Beach, John S., assignor.)						
Cochran, Samuel H., Everett, Mass. Making artificial butter	285,878	Oct. 2	125	36	25	24
Cochran, Samuel H., Everett, Mass. Churn and like apparatus for use in the manufacture of artificial butter, &c	285,973	Oct. 2	243	69	25	46
Cochran, Samuel H., Everett, Mass. Churn or mixer for use in the manufacture of artificial butter	285,974	Oct. 2	244	69	25	47
Cochran, Stephen A. (See Cochran, Henry S., assignor.)						
Cochran, Thomas, Brooklyn, N. Y. Telegraphic relay	272,210	Feb. 13	775	214	23	586
Cochran, William J., assignor to himself, G. W. Apple, and H. G. Peters, Denison, Iowa. Horse-collar pad	275,886	Apr. 17	1333	367	23	1470
Cochrane, Brodie. (See Fenwick and Cochrane.)						
Cochrane, Brodie, Durham, county of Durham, England. Coke-oven	276,002	Apr. 17	1461	403	23	1493
Cochrane, Charles, Stourbridge, county of Worcester, England. Manufacture of iron in blast-furnaces	284,383	Sept. 4	275	.....	24	950
Cochrane, William, East Woodstock, Conn. Cover-fastener for fruit-jars	276,670	May 1	162	41	23	1653
Cockburn, Dougald B. S., Jersey City, N. J. Wheelbarrow	288,019	Nov. 6	294	83	25	557
Cockcroft, Thomas, Birkenhead, county of Chester, assignor to W. P. Thompson, Liverpool, England. Packing-case	276,356	Apr. 24	1912	531	23	1577
Cocke, John, Jr., Greensborough, Ala. Hay and cotton press	283,571	Aug. 21	1334	372	23	753
Cockell, Harvey, Chicago, Ill., assignor to C. Chambers, Jr., Philadelphia, Pa. Kiln for drying brick, &c	274,910	Apr. 3	21	6	23	1230
Cockell, Harvey, assignor to R. S. Reynolds, Chicago, Ill. Machine for separating stones from clay	284,613	Sept. 11	557	158	24	1005
Cocker, Frederick, assignor to Hat Curling Machine Company, Danbury, Conn. Hat-brim-curling machine	286,907	Oct. 16	1421	390	25	271
Cocker, Frederick, assignor to Hat Curling Machine Company, Danbury, Conn. Hat-brim-curling machine	286,908	Oct. 16	1423	391	25	271
Cockshaw, Herbert, assignor to Cox & Sedgwick, New York, N. Y. Bracelet	272,829	Feb. 20	1566	440	23	730
Cockson, Charles, Wigan, county of Lancaster, England. Ventilating-fan	284,279	Sept. 4	151	42	24	930
Codd, Hiram, London, and D. Rylands, Barnsley, county of York, England. Bottle for containing aerated liquids	270,392	Jan. 9	685	203	23	143
Codding, David D., North Attleborough, Mass. Manufacture of ornamental chains	279,340	June 12	915	255	23	2288
Codding, Frederick W., assignor to himself and Desper, Rogers & Co., Barre, Mass. Automatic belt-tightener	283,572	Aug. 21	1336	373	24	753
Coddington, Marion, Rahway, N. J. Waist, drawers, and stocking supporter	288,020	Nov. 6	295	83	25	557
Cody, John W. (See Simms and Cody.)						
Coe Brothers. (See Thomas, Boyce S., assignor.)						
Coe, Carlos C., Rome, N. Y. Fence	275,591	Apr. 10	940	256	23	1395
Coe, Henry I. (See Thackston, Richard D., assignor.)						
Coe, John W., and D. Merritt, Brooklyn, N. Y. Two-wheeled vehicle	281,457	July 17	1402	385	24	259
Coe, Mary E. (See Coe, Winfield R., assignor.)						
Coe, Wash, Leavenworth, Kans. Door securer	290,400	Dec. 18	1277	359	25	1128
Coe, Winfield R., assignor to M. E. Coe, Meriden, Conn. Check-rein fastener	281,616	July 17	1599	437	24	292
Coes, John H., Worcester, Mass. Wrench	289,069	Nov. 27	1605	445	25	811
Cofer, Thomas W., Portsmouth, Va. Fly-fan	288,021	Nov. 6	296	83	25	557
Coffey, Wiley D., Pangburn, Ark. Horseshoeing-stand	286,389	Oct. 9	766	207	25	149
Coffield, Peter T., assignor to himself and A. L. Wolley, Springfield, Ohio. Wind-engine	273,226	Feb. 27	2077	584	23	825
Coffield, Peter T., assignor of one-half to C. H. Paxson, Springfield, Ohio. Force-pump	276,134	Apr. 17	1628	449	23	1521
Coffin, Edward J., Little Falls, N. Y. Indicator and alarm for steam-boilers	285,798	Oct. 2	19	6	25	6
Coffin, George W., Lynn, Mass. Buffing-machine	271,222	Jan. 30	1723	499	23	352
Coffin, George W., Lynn, Mass., assignor of three-fifths to H. Behr, New York, N. Y. Abrading and polishing machine for boots and shoes	274,440	Mar. 20	1536	423	23	1114
Coffin, James H., *et al.* (See Vincent and Smith, assignors.)						
Coffin, Joseph W. (See Maloney, James, assignor.)						
Coffin, Prince H. (See Sullivan, Michael E., assignor.)						
Coffin, Prince H., *et al.* (See Vincent and Smith, assignors.)						
Coffin, Zebulon E., Newton, Mass. Machine for drilling pipe-flanges	272,857	Feb. 27	1626	455	23	747
Coffin, Zebulon E., Newton, Mass. Machine for turning pipe-flanges	283,376	Aug. 21	1102	310 311	24	711
Cogger, William B., and H. A. Hamlin, Minneapolis, Minn. Door-hanger	283,208	Aug. 14	879	245	24	664
Coggeshall, William T., Lowell, Mass. Spindle for loom-shuttles	273,468	Mar. 6	296	80	23	883
Coggin, Frederick G. (See Richards and Coggin.)						
Coggin, Frederick G., Lake Linden, Mich. Dash-pot bumper	272,652	Feb. 20	1350	379	23	691
Coggins, O. Chester, New Haven, Conn. Shifting rail	274,174	Mar. 20	1196	329	23	1055
Cogswell, Eliza R., New York, N. Y. Life-preserver	270,745	Jan. 16	1142	307	23	238
Cogswell, Eliza R., New York, N. Y. Life-preserver	281,178	July 10	1039	288	24	191
Cogswell, Henry D., San Francisco, Cal. Producing a cool atmosphere in rooms and apartments	272,653	Feb. 20	1351	379	23	691
Cogswell, Henry D., San Francisco, Cal. System of and apparatus for producing and distributing refrigerated air and water	272,654	Feb. 20	1352	380	23	692
Cogswell, William S., Hyde Park, Mass. Ceiling	282,167	July 31	2326	641	24	426
Cogswell, William S., Hyde Park, Mass. Machine for transferring figures upon glass	282,168	July 31	2327	641 642	24	426
Cogswell, William S., Hyde Park, Mass. Marbleizing glass	283,861	Aug. 28	1682	475	24	898
Cohen, Alfred N., New York, N. Y. Fastener for gloves and other articles	270,019	Jan. 2	227	66	23	47

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Cohen, Isaac S., *et al.* (See Prince, David, assignor.)						
Cohen, Jacob S., *et al.* (See Prince, David, assignor.)						
Cohen, Moses, Hallettsville, Tex. Fan attachment	270,020	Jan. 2	228	66	23	47
Cohlman, William, Philadelphia, Pa. Underground-telegraph line	277,007	May 8	620	162 163	23	1738
Cohlman, William, Philadelphia, Pa. Collar	287,241	Oct. 23	1858	508	25	355
Cohn, Julius M., New York, N. Y. Corset-clasp	288,022	Nov. 6	297	83	25	558
Cohn, Julius M., New York, N. Y. Corset-clasp	288,023	Nov. 6	297	84	25	558
Cohn, Oscar J., New York, N. Y. Pin-tag	290,537	Dec. 18	1476	408	25	1162
Cohnen, Frank, assignor of one-half to H. Turner, Detroit, Mich. Machine for cleaning feathers and separating the down therefrom	270,180	Jan. 2	413	120	23	84
Coil, George, Ashley, Pa. Apparatus for upholstering cushioned seats	280,911	July 10	705	198	24	131
Coit, Henry A. (See White, John E., assignor.)						
Colahan, Charles. (See Dickey, James H., assignor.)						
Colahan, Charles, Cleveland, Ohio. Harvester-rake	284,723	Sept. 11	698	196	24	1028
Colahan, Charles, Cleveland, Ohio. Harvester	285,464	Sept. 25	1599	449	24	1200
Colahan, Samuel, Cleveland, Ohio. Neck-yoke holder	288,024	Nov. 6	298	84	25	558
Colbert, John, Mantua, N. J. Can-filling machine	286,782	Oct. 16	1261	341	25	243
Colbert, Michael J. (See Melick and Colbert.)						
Colburn, Fuller & Co. (See Daggett, John C., assignor.)						
Colburn, George S., Gardner, Mass. Rattan-scraping machine	277,235	May 8	902	240	23	1787
Colburn, Henry J., assignor to himself and H. Baker, Toledo, Ohio. School-desk	277,545	May 15	1275	342	23	1857
Colburn, Richard R., Ansonia, Conn. Paper box	283,209	Aug. 14	880	245	24	664
Colby, Caleb K., Brooklyn, N. Y. Watch-pendant	287,001	Oct. 23	1544	425	25	298
Colby, Charles C. (See Wiswell, Frederick A., assignor.)						
Colby, George H., Boston, Mass. Coupling attachment for locomotive-tenders	288,209	Nov. 13	518	144	25	607
Colby, John N., assignor of one-half to J. H. Amies, New London, Conn. Umbrella	289,229	Nov. 27	1793	496	25	846
Colby, John N., assignor of one-half to J. H. Amies, New London, Conn. Combined umbrella and cane	289,230	Nov. 27	1794	497	25	846
Colcord, Joseph L. (See Pettiner and Colcord.)						
Colcord, Joseph W., Lynn, Mass. Bottle-tap	280,798	July 10	579	161 162	24	109
Colcord, Otis B., Greenville, Ill. Grain-elevator for harvesters	277,993	May 22	1808	494	23	1956
Colcord, Samuel M., Dover, Mass. Method of and device for preserving ensilage in silos	280,352	July 3	16	5	24	5
Colditz, William, Rochelle, Ill. Milk-skimming device	272,655	Feb. 20	1354	380	23	692
Coldwell, Thomas and W. H., Newburg, N. Y. Machine for clipping hats, furs, &c.	271,423	Jan. 30	1979	571 572	23	397
Coldwell, Thomas and W. H., Newburg, N. Y. Lawn-mower	273,469	Mar. 6	297	81	23	884
Coldwell, William H. (See Coldwell, Thomas and W. H.)						
Cole, Aaron, Fillmore, Mo. Curtain-fixture	282,846	Aug. 7	445	125	24	579
Cole, Charles O., Las Vegas, N. Mex. Ter. Overalls	278,313	May 29	2235	613	23	2038
Cole, David S., Columbus Junction, Iowa. Breech-loading fire-arm	289,070	Nov. 27	1606	445	25	811
Cole, Henry, Denver, Colo. Device for exhibiting cards and samples	277,681	May 15	1436	387	23	1884
Cole, Isaac, Newark, N. J. Wood-screw	288,923	Nov. 20	1418	391	25	771
Cole, James, St. Louis, Mo. Smoking-pipe	273,709	Mar. 13	603	162	23	945
Cole, James, Dixon, Ky. Destroying insects	277,008	May 8	621	.....	23	1738
Cole, James W., Huntington, Mass. Car-coupling	275,754	Apr. 10	1158	318	23	1432
Cole, James W., Nashville, Tenn. Saw-table	279,341	June 12	915	255	23	2288
Cole, James W., assignor to himself and J. W. Hamilton, Boston, Mass. Button	277,886	May 22	1680	458	23	1934
Cole, John O., Portsmouth, Ohio. Printed blank, form, &c	289,892	Dec. 11	653	181 182	25	1007
Cole, Perry F., *et al.* (See Reynolds, David R., assignor.)						
Cole, Seth, Alton, N. Y. Clod-crusher	281,021	July 10	840	233	24	156
Cole, Shuman M., Anamosa, Iowa. Measuring-pump	270,021	Jan. 2	229	67	23	47
Cole, Thomas Z., assignor of one-half to L. G. and L. G. Jeffers, Jr., Kansas City, Mo. Dredging-machine	277,236	May 8	904	241 242 243	23	1787
Cole, Wesley, Menomonee, Wis. Vehicle-spring	286,532	Oct. 9	938	252	25	181
Cole, Wesley, Menomonee, Wis. Wagon-bolster spring	290,860	Dec. 25	1893	522	25	1242
Cole, Wesley, assignor to J. Gray, Menomonee, Wis. Sand-band	274,885	Mar. 27	2103	585	23	1219
Cole, Wesley, assignor to A. G. Anderson and S. A. Peterson, Menomonee, Wis. Sand-band for vehicles	287,364	Oct. 23	2003	546	25	382
Cole, William E., Montgomery, Ala. Locomotive	277,994	May 22	1809	494	23	1956
Cole, William R., Pottsville Pa. Combined hat and coat hanger and button-hook	270,889	Jan. 23	1313	379	23	276
Colebrook, Cemer T., Islington, county of Middlesex, England, assignor to himself and J. Rose, New York, N. Y. Ratchet-drill	285,733	Sept. 25	1928	547	24	1261
Coleman, Charles C., Honolulu, Hawaiian Islands. Cane-planting machine	279,709	June 19	1361	379	23	2370
Coleman, Charles C., Honolulu, Oahu, Hawaiian Islands. Double mold-board plow	284,820	Sept. 11	816	227	24	1049
Coleman, Daniel J. (See McCloskey and Coleman.)						
Coleman, Hamilton D., New Orleans, La. Gage for dressing and truing millstones	275,024	Apr. 3	191	51	23	1258
Coleman, John A., Providence, R. I. Machine for making horseshoe-nails	286,390	Oct. 9	768	207 208	25	150
Coleman, John A., Providence, R. I. Machine for making horseshoe-nails	286,391	Oct. 9	770	208 209	25	150
Coleman, Michael S., New York, N. Y. Mine-shaft elevator	289,231	Nov. 27	1795	497	25	846
Coleman, Samuel T. J., *et al.* (See Clarke, John N., assignor.)						
Coleman, Theodore, New York, N. Y. Sofa-bedstead	283,210	Aug. 14	881	246	24	664
Coleman, William O., Memphis, Tenn. Seed-cotton separator and cleaner	278,401	May 29	2349	642	23	2059
Coleman, William O., Memphis, Tenn. Seed-cotton separator and cleaner	281,671	July 24	1673	456	24	310
Coleman, William O., Little Rock, Ark. Seed-cotton separator and cleaner	282,057	July 31	2166	594 595	24	401
Coleman, William O., Little Rock, Ark., assignor of one-half to S. Z. Hall Southern Cotton Gin Company. Cotton-gin feeder	278,402	May 29	2351	643	23	2059
Coles, Herbert Z., Lake City, Minn. Combined dropper and check-row attachment	271,793	Feb. 6	252	70	23	484
Colgan, Thomas, Brooklyn, N. Y. Lubricant for steam-cylinders	280,134	June 26	1871	.....	23	2466
Colhoun, James. (See Metzler and Burrell, assignors.)						
Collamore, John H. (See Humans, William, assignor.)						
Collamore, Robert G. S., Boston, Mass. Door-check	272,531	Feb. 20	1196	323	23	664
Collard, John P., *et al.* (See Ruggles, Robert B., assignor.)						
Collard, Richard M., assignor to J. Reckendorfer, New York, N. Y. Combined pen and pencil	270,746	Jan. 16	1144	307	23	238
Collard, Richard M., assignor to L. W. Fairchild, New York, N. Y. Pencil-case	287,907	Nov. 6	146	43	25	533
Collard, Richard M., assignor to L. W. Fairchild, New York, N. Y. Cigar-perforator	288,210	Nov. 13	519	144	25	607
Collender, Hugh W., New York, N. Y. Billiard-table cushion	275,592	Apr. 10	942	256	23	1396

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Collender, Hugh W., New York, N. Y. Billiard-table cushion	275,593	Apr. 10	944	256	23	1396
Coller, Charles W., Hannibal, Mo. Car-door	274,107	Mar. 20	1111	306	23	1039
Coller, Charles W., Hannibal, Mo. Car-axle box	279,342	June 12	916	256	23	2288
Colliau Furnace Company. (See Colliau, Victor, assignor.)						
Colliau, Victor, assignor to Colliau Furnace Company, Detroit, Mich. Furnace for reducing ores	284,384	Sept. 4	276	77	24	951
Collier, James M., Atlanta, Ga. Grinding-mill	270,747	Jan. 16	1145	328	23	239
Collier, William G., Merced, Cal. Weighing-scale	281,753	July 24	1783	485, 486	24	329
Collier, William H. (See Wiswall and Collier.)						
Collignon, Adam, Westwood, N. J. Folding chair	282,273	July 31	2452	675	24	448
Collin, Albert, Rouen, France. Extensible receptacle	273,030	Feb. 27	1835	513, 514	23	783
Collin, John B., Altoona, Pa. Sanding device for locomotives	271,039	Jan. 23	1494	431	23	305
Collin, John B., Altoona, Pa. Stand-pipe	271,195	Jan. 23	1690	488	23	337
Collin, John B., Altoona, Pa. Sanding device for locomotives	272,414	Feb. 20	1049	294	23	632
Collin, John B., Altoona, Pa. Supplying locomotives with coal. (Reissue)	10,417	Dec. 4	523	144	25	977
Collin, Simon C., Braddock, Pa. Ingot-buggy	281,022	July 10	842	234	24	156
Collinge, Edward. (See Collinge, Richard S., E., and R.)						
Collinge, Richard S., E., and R., Oldham, county of Lancaster, England. Shedding mechanism for looms	286,783	Oct. 16	1262	342	25	244
Collinge, Robert. (See Collinge, Richard S., E., and R.)						
Collings, Edward Z., Camden, N. J., and C. F. Pike, Philadelphia, Pa. Sewer-inlet	274,465	Mar. 27	1577	433	23	1129
Collings, Edward Z., Camden, N. J., and C. F. Pike, Philadelphia, Pa. Sewer-inlet	274,466	Mar. 27	1578	433	23	1129
Collings, Edward Z., Camden, N. J., and C. F. Pike, Philadelphia, Pa. Sewer-inlet	275,802	Apr. 17	1431	337	23	1452
Collings, Edward Z., Camden, N. J., and C. F. Pike, Philadelphia, Pa. Sewer-flushing device	275,803	Apr. 17	1232	337	23	1452
Collings, Edward Z., assignor to National Anti-Sewer Gas Company, Camden, N. J. Deodorizing and disinfecting water-closets, &c.	276,357	Apr. 24	1914	531	23	1578
Collings, Edward Z., Camden, N. J., and C. F. Pike, Philadelphia, Pa. Refrigerator-car	285,394	Sept. 25	1516	427	24	1186
Collings, William, assignor of three-fourths to J. Yeager, J. W. McClellen, and J. Keating, Afton, Iowa. Apparatus for generating and carbureting hydrogen gas	282,169	July 31	2328	642	24	426
Collins, Alfred, *et al.* (See Wright, Charles A., assignor.)						
Collins, Bernard, Kennerdell, Pa. Automatic high and low water indicator for steam-boilers	271,704	Feb. 6	253	70	23	484
Collins, Charles, Chicago, Ill. Wire-coupling	278,097	May 22	1929	529	23	1977
Collins, Charles P., San Marcos, Tex. Cotton-picker's wagon	276,778	May 1	325	84	23	1682
Collins, Charles R., assignor of one-third to J. Schrack, Lafayette, Ind. Railway-signal	270,205	Jan. 9	449	131	23	99
Collins, Eli A. (See Bowman, John W., assignor.)						
Collins, Erasmus B., assignor to E. Mize, Chicago, Ill. Process of and compound for rendering cloth impervious to water	285,734	Sept. 25	1930	.....	24	1261
Collins, Eugene F., North Anson, Me. Wash-stand	273,710	Mar. 13	603	162	23	945
Collins, George, La Grange, Iowa. Hog-nose ring	273,960	Mar. 13	922	253	23	999
Collins, Henry H., *et al.* (See Wright, Charles A., assignor.)						
Collins, James, Crawfordsville, Ind. Two-wheeled vehicle	281,023	July 10	843	234	24	156
Collins, John, Gloucester, Mass. Towing-boat	283,573	Aug. 21	1336	373	24	753
Collins, John W., St. Louis, Mo. Cultivator	276,160	Apr. 24	1662	458, 459	23	1535
Collins, John W., Chicago, Ill. Reduction-machine	290,208	Dec. 18	1033	291	25	1085
Collins, Joseph H., Jr. (See Granger and Collins.)						
Collins, Joseph H., Jr., and A. O. Granger, Philadelphia, Pa. Process of and apparatus for manufacturing gas	276,562	May 1	20	6	23	1630
Collins, M. Grier, assignor of one-half to J. W. Lilley and F. Siegel, Jr., Columbus, Ohio. Flameless lamp	277,682	May 15	1437	387	23	1884
Collins, Michael, Pittsfield, Mass. Fire-escape	282,703	Aug. 7	287	80	24	549
Collins, Morris A., Gainesville, Tex. Boot-scraper	287,242	Oct. 23	1859	508	25	355
Collins, Oliver D., Snow Hill, Md. Cartridge-pouch	287,604	Nov. 6	18	6	25	510
Collins, Robert M. (See Green John, assignor.)						
Collins, Stephen, Huntsville, Ala. Churn	278,098	May 22	1930	529	23	1978
Collins, William, Syracuse, N. Y. Machine for finishing metallic pipes	273,258	Mar. 6	18	6	23	837
Collis, John, Des Moines, Iowa. Steam-trap and boiler-feeder	270,638	Jan. 16	1003	289	23	212
Collis, John, Des Moines, Iowa. Steam-radiator	290,665	Dec. 25	1641	452	25	1196
Collmann, C. O., *et al.* (See Held, August S., assignor.)						
Collmann, Claas O., *et al.* (See Tobias, Cyrus, assignor.)						
Collyer, William C., assignor of one-fourth to C. A. Chase, Lynn, Mass. Station-indicator	288,162	Nov. 6	453	127	25	567
Coloney, Myron. (See McLean and Coloney.)						
Coloney, Myron, New Haven, Conn., assignor to J. H. McLean, St. Louis, Mo. Magazine-gun	282,499	Aug. 7	27	8	24	505
Colony, Charles W., Sandy Creek, N. Y. Device for converting motion	289,622	Dec. 4	308	86	25	942
Colquhoun, Sutherland G., Edinburgh, Scotland. Brake for railways	276,358	Apr. 24	1915	531	23	1578
Colt, James B., assignor of one-half to S. C. Thompson, New York, N. Y. Device for focusing lenses	288,025	Nov. 6	299	84	25	538
Colton, Albert B., assignor of one-half to R. Hamilton Franklin, Ind. Stub-axle for trucks	289,752	Dec. 4	478	135	25	970
Colton, William L., *et al.* (See Schermerhorn, Herschel A., assignor.)						
Colts Patent Fire-Arms Manufacturing Company. (See Brewer, Roland L., assignor.)						
Colvin, Charles W., Wilkes-Barré, Pa. Mining-machine	282,274	July 31	2452	675	24	448
Colvin, Frederick J., Hamden, Conn. Screw-driver	279,917	June 26	1610	452	23	2420
Colvin, Henry F., Philadelphia, Pa. Injector	284,614	Sept. 11	558	158	24	1005
Colvin, Orson, assignor to J. Bauer, Schoolcraft, Mich. Lubricating apparatus	277,410	May 8	1105	297	23	1822
Colvin, Orson, assignor to W. T. Smith and W. Fanckboner, Schoolcraft, Mich. Clothes-pounder	271,602	Feb. 6	24	6	23	444
Colwell, A. W. (See Clarke, John J., assignor.)						
Colwell, William S., Pittsburg, Pa. Method of and apparatus for obtaining a high pressure motor from low pressure of steam in street mains and branches	274,175	Mar. 20	1196	329	23	1055
Combs, Abraham F., Long Lane, Mo. Bee-hive	275,328	Apr. 3	567	154	23	1322
Combs, Charles R. (See Baggott, James E., assignor.)						
Comee, George W. and S. S., Waseca, Minn. Burial-casket	281,024	July 10	844	234	24	156
Comee, Samuel S. (See Comee, George W. and S. S.)						
Comings, William R. (See Jackson and Austin, assignors.)						
Comins, Charles S., Concord, N. H. Folding crib	274,467	Mar. 27	1580	433	23	1129
Comins, Charles S., Concord, N. H. Folding crib	279,134	June 12	667	183	23	2247
Comins, Charles S., Concord, N. H. Child's crib	286,686	Oct. 16	1144	308	25	223
Commander, Miles, Elizabeth City, N. C. Sash-holder	286,909	Oct. 16	1425	391	25	271
Commeans, William, Lilly Chapel, Ohio. Combined pulverizer and grader	284,946	Sept. 11	963	270	24	1076

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Commercial Telegram Company. (See Field, Stephen D., assignor.)						
Compagnie Générale de Salubrité. (See Berlier, Jean B., assignor.)						
Compton, Charles W., Newark, N. J. Trimming for burial-caskets	285,114	Sept. 18	1183	331	24	1121
Compton, William A., Liberty Corner, N. J. Sleigh	286,784	Oct. 16	1963	342	25	244
Comstock, Charles, Racine, Wis. Platform-spring connection	274,277	Mar. 20	1328	366	23	1078
Comstock, Charles, Racine, Wis. Wagon-body. (Reissue)	10,308	Apr. 10	1211	332	23	1441
Comstock, Charles, Racine, Wis. Vehicle-pole	279,710	June 19	1362	380	23	2370
Comstock, Charles, Racine, Wis. Fifth-wheel for vehicles	279,711	June 19	1363	380	23	2370
Comstock, Chester, New Canaan, Conn. Rotary pump	283,377	Aug. 21	1104	{311 312}	24	711
Comstock, Edwin M. (See Comstock, Sabastian and E. M.)						
Comstock, Francis M., Keokuk, Iowa. Fence-making machine	284,385	Sept. 4	278	77, 78	24	951
Comstock, Francis M., and G. Q. Adams, Keokuk, Iowa. Fence-picket	286,392	Oct. 9	773	200	25	150
Comstock, Francis M., and G. Q. Adams, Keokuk, Iowa. Fence	286,785	Oct. 16	1265	342	25	244
Comstock, Frank A., Columbus, Ohio. Vehicle-seat	279,637	June 19	1278	355	23	2355
Comstock, Frank A., Columbus, Ohio. Vehicle-seat	286,178	Oct. 9	489	135	25	101
Comstock, Harry, Fulton, N. Y. Artificial bait	271,424	Jan. 30	1982	572	23	308
Comstock, Isaac D., Adrian, Mich. Chair-seat	270,748	Jan. 16	1147	328	23	239
Comstock, Isaac D., Adrian, Mich. Chair-seat	270,749	Jan. 16	1148	328	23	239
Comstock, Merlin, Los Angeles, Cal. Saddle	288,026	Nov. 6	299	84	25	558
Comstock, Oscar F. (See Blackmer, Walter M., assignor.)						
Comstock, Sabastian and E. M., Cascade Valley, N. Y. Oiler for carriage-axles	284,386	Sept. 4	280	78	24	951
Comstock, William P., Jr., Pawtucket, R. I. Railway-chair	290,209	Dec. 18	1035	291	25	1086
Conant, George P., Geneva Lake, Wis. Combined compasses and calipers	288,163	Nov. 6	455	127	25	587
Conant, George P., assignor of one-half to J. F. Conant, Geneva Lake, Wis. Spacing-instrument for drawing	290,210	Dec. 18	1036	292	25	1086
Conant, John F. (See Conant, George P., assignor.)						
Conant, King E., Spring City, Tenn. Saw-swage	284,185	Sept. 4	33	8, 9	24	910
Conboy, Daniel, Uxbridge, Ontario, Canada. Carriage-top	277,116	May 8	765	201	23	1763
Concher, J. W. (See Burnett, John M., assignor.)						
Conde, James B., Spring City, and H. C. Marshall, Philadelphia, Pa. Stove-door hinge	282,170	July 31	2329	642	24	426
Condict, Nathan W., Jr., Jersey City, N. J. Stamping machinery	275,355	Apr. 10	638	{170 171}	23	1343
Condict, Nathan W., Jr., Jersey City, N. J. Balanced slide-valve	275,356	Apr. 10	639	171	23	1344
Condict, Nathan W., Jr., Jersey City, N. J. Dumping-car	275,357	Apr. 10	640	171	23	1344
Condict, Nathan W., Jr., Jersey City, N. J. Steam stamp or hammer	275,358	Apr. 10	641	{171 172}	23	1344
Condict, Nathan W., Jr., Jersey City, N. J. Steam stamp or hammer	275,359	Apr. 10	642	{172 173}	23	1344
Condict, Nathan W., Jr., Jersey City, N. J. Steam stamp or hammer	275,360	Apr. 10	645	173	23	1344
Condon, William F., East Saginaw, Mich. Safety car heater and ventilator	277,546	May 15	1276	342	23	1858
Cone, Norris H. (See Clark and Cone.)						
Cone, Thomas L., Brest, Mo. Riding-harrow	289,232	Nov. 27	1796	497	25	846
Congdon, Isaac H., Omaha, Nebr. Valve-seat for steam-engines	282,058	July 31	2168	595	24	401
Conger, Alfred, Elizabeth, N. J. Undershirt. (Reissue)	10,378	Sept. 4	523	147	24	992
Conkey, Edward L., assignor to C. A. Shaw, Boston, Mass. Center-rest for lathes	285,115	Sept. 18	1184	332	24	1121
Conklin, Calvin W., *et al.* (See Taber, Franklin P., assignor.)						
Conklin, Edward, Channahon, Ill. Double-acting outward-pulling weather-strip	277,887	May 22	1681	458	23	1934
Conklin, Elgin L., Corning, N. Y. Apparatus for feeding flour to bolting-reels	287,097	Oct. 23	1669	458	25	322
Conklin, Joseph I., Jr., New York, N. Y. Electric alarm-clock	270,639	Jan. 16	1004	290	23	213
Conklin, Theodore F., Fond du Lac, Wis. Road-cart	271,223	Jan. 30	1724	499	23	352
Conklin, Theodore F., assignor of one-half to F. A. Knapp, Fond du Lac, Wis. Box-fastener	284,615	Sept. 11	559	158	24	1005
Conkling, Theodore G., Logansport, Ind. Implement for shocking Indian-corn and other grain	285,395	Sept. 25	1518	{427 428}	24	1185
Conlan, James B., Richburg, N. Y. Belt-tightener	282,500	Aug. 7	29	8	24	505
Conley, William R., Fairgrove, Mich. Hay-rack	279,343	June 12	917	256	23	2288
Conlon, John G., and S. R. Dyer, New Orleans, La. Machine for ejecting oil	290,861	Dec. 25	1894	523	25	1242
Conly, Mahlon S., assignor of one-half to W. M. Cronyn, Indianapolis, Ind. Magneto-electric generator	285,799	Oct. 2	21	7	25	6
Conneely, Peter D., Horseheads, N. Y. Lid for pots and other vessels	276,359	Apr. 24	1916	531	23	1578
Connell, David, Wilmington, Del. Car-wheel	287,629	Oct. 30	2152	636	25	457
Connell, John, and V. Dengler, Rochester, N. Y. Segment-saw	279,344	June 12	918	256	23	2288
Connelly, Martin J. (See Thayer and Connelly.)						
Connelly, William E., Wedowee, Ala. Hillside-plow	275,594	Apr. 10	945	257	23	1396
Conner, Albert C., assignor to Hoosier Drill Company, Richmond, Ind. Grain-drill	282,847	Aug. 7	446	126	24	579
Conner, Andrew J., Louisville, Ky. Machine for preparing tin plates for roofing	270,022	Jan. 2	230	67	23	48
Conner, Charles, New York, N. Y. Wire wrapping or covering machine	278,099	May 22	1931	530	23	1978
Conner, Ezra F., assignor of one-half to O. P. Schriver, Greensburg, Ind. Two-wheeled vehicle	274,722	Mar. 27	1902	531	23	1186
Conner, Marcus W., *et al.* (See Shields, Francis M., assignor.)						
Conner, Ovid W., Wabash, Ind. Hose-exhibitor	275,887	Apr. 17	1333	367	23	1470
Conner, Sanford E., and J. P. Finch, Vinton, Iowa. Harvester-cutter	275,595	Apr. 10	946	257	23	1396
Conner, William, Missouri Valley, Iowa. Sash-holder	281,458	July 17	1403	385	24	259
Connett, Matthew F., Petersburg, Ill. Grain-drill	289,893	Dec. 11	654	182	25	1008
Connolly, Charles, Turner's Falls, Mass. Fire-escape	288,411	Nov. 13	792	215	25	653
Connolly, Julia. (See Connolly, Patrick, assignor.)						
Connolly, Julia. (See Connolly, Patrick, assignor.) (Reissue.)						
Connolly, Julia. (See Sullivan, John F., assignor.)						
Connolly, M. Daniel, Philadelphia, Pa. Protector for telegraphic and telephonic instruments	279,712	June 19	1364	380	23	2370
Connolly, M. Daniel, Philadelphia, Pa. Protector for telegraphic and telephonic instruments	279,714	June 19	1366	381	23	2371
Connolly, M. Daniel, Philadelphia, Pa. Protector for telegraphic and telephonic instruments	279,715	June 19	1367	381	23	2371
Connolly, M. Daniel, Philadelphia, Pa., and T. A. Connolly, Washington, D. C. Protector for electrical instruments	279,713	June 19	1365	381	23	2370
Connolly, Patrick, Brooklyn, N. Y. Locking valves	280,912	July 10	706	190	24	131
Connolly, Patrick, Brooklyn, N. Y. Stationary wash-stand	283,699	Aug. 21	1478	416	24	781
Connolly, Patrick, assignor, by mesne assignments, to J. Connolly, Brooklyn, N. Y. Water-closet pan	237,668	Mar. 6	548	146	23	927
Connolly, Patrick, assignor, by mesne assignments, to J. Connolly, Brooklyn, N. Y. Plumber's trap	277,888	May 22	1682	459	23	1935
Connolly, Patrick, assignor, by mesne assignments, to J. Connolly, Brooklyn, N. Y. Plumber's trap. (Reissue)	10,333	May 29	2682	734	23	2117

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Connolly, Thomas A. (See Connolly, M. Daniel and T. A.)						
Connor, George H., Columbus, Kans. Gearing for operating washing-machines, churns, &c.	271,795	Feb. 6	254	71	23	485
Connor, John R., Franklin, Pa. Riveting-machine	287,630	Oct. 30	2359	636	25	457
Connor, Laurence, Fox Lake, Wis. Corn-hoe	274,108	Mar. 20	1111	306	23	1039
Connor. Simon P., St. Helena., Cal. Bung-bottle	287,908	Nov. 6	147	43	25	534
Conover, Charles E., *et al.* (See Erlanger, Charles, assignor.)						
Conover, Gordon S., Freehold, N. J. Car-coupling	273,818	Mar. 13	753	204	22	971
Conover, Jacob A., New York, N. Y., assignor to A. F. Childs, Washington, D. C. Former for table-frames	289,623	Dec. 4	310	86, 87	25	949
Conover, Stephen B., New York, N. Y. Apparatus for drying or cleaning tobacco and other materials	275,596	Apr. 10	947	257	23	1396
Conrad, Eugene T., Cadillac, Mich. Balanced slide-valve	273,961	Mar. 13	922	253	23	999
Conrad, James B., Smith's Mills, Pa. Belt-fastener	279,716	June 19	1368	382	23	2371
Conrad, Osborn, Philadelphia, Pa. Burglar-alarm	289,624	Dec. 4	311	87	25	942
Conradson, Conrad M., assignor of one-half to J. A. Johnson, Madison, Wis. Wind-motor	283,079	Aug. 14	721	202	24	635
Conroy, John M., and F. E. Youngs, Allegheny, Pa. Glass mirror	290,744	Dec. 25	1754	484	25	1217
Conroy, John M., and F. E. Youngs, Allegheny, Pa. Coating the backs of silvered mirrors	290,745	Dec. 25	1755	.....	25	1217
Conroy, Thomas J., *et al.* (See Palmer, George H., assignor.)						
Consolidated Safety Valve Company. (See Richardson, George W., assignor.)						
Contancin, Gustavus J., J. M. Scott, and J. Stumpff, Blue Mound, Ill. Cornstalk-cutter	281,025	July 10	845	235	24	157
Continental Cash Car Company. (See Clark, Milton, assignor.)						
Continental Cash Car Company. (See Elliott, Gilbert R., assignor.)						
Continental Cash Car Company. (See Hinton, Joseph R. H., assignor.)						
Converse, Edmund, *et al.* (See Bennett, John H., assignor.)						
Converse, Edmund C. (See Russell and Gordon, assignors.)						
Converse, Edmund C., Pittsburg, Pa. Tube-coupling	283,971	Aug. 28	1816	513	24	854
Converse, Edmund C., Pittsburg, Pa. Tube-coupling	283,972	Aug. 28	1818	514	24	854
Converse, Edmund C., Pittsburg, Pa. Tube-coupling	283,973	Aug. 28	1820	514	24	854
Converse, Edmund C., Pittsburg, Pa. Tube-coupling	283,974	Aug. 28	1821	514	24	855
Converse, Edmund C., Pittsburg, Pa. Flange-joint for thin-metal tubing	283,975	Aug. 28	1822	514	24	855
Converse, Elmer A., Monticello, Ohio. Fire-escape ladder	271,796	Feb. 6	254	71	23	485
Converse, George W., Spokane Falls, Wash. Ter. Water-wheel	281,459	July 17	1403	385	24	259
Converse, John H., *et al.* (See Wilder and Parry, assignors.)						
Converse, Morton E., Winchendon, Mass. Toy building	271,603	Feb. 6	25	6	23	445
Conway, George M., Milwaukee, Wis. Pump	273,962	Mar. 13	923	253	23	999
Conway, John, London, Ohio. Grain-drill	284,186	Sept. 4	34	9	24	910
Conway, John C. (See Watson, John, assignor.)						
Conway, Michael L., assignor of two-eighths to J. Broderick and J. A. Hamilton, San Francisco, Cal. Lubricator	285,465	Sept. 25	1601	449	24	1201
Conway, William M., Baltimore, Md. Sheet-metal vessel	287,243	Oct. 23	1859	509	25	355
Conwell, Thomas E. (See Cooper and Conwell.)						
Cook, Alexander. (See Macann, Crowell S., assignor.)						
Cook, Augustine, Salisbury, Md. Dredging-machine	287,631	Oct. 30	2360	637	25	457
Cook, Charles A., *et al.* (See Preston, James, assignor.)						
Cook, Charles E., *et al.* (See Hayes, William, Jr., assignor.)						
Cook, Charles R., *et al.* (See Olson, Peter J., assignor.)						
Cook, Christian. (See Pons, John, assignor.)						
Cook, Daniel. (See Parsons and Borchardt, assignors.)						
Cook, Emmanuel T., Chico, Tex. Stalk-cutter	281,460	July 17	1404	386	24	260
Cook, Emmanuel T., assignor of one-half to D. R. Burroughs, Alexander, Tex. Boot and shoe box	288,924	Nov. 20	1419	391	25	771
Cook, Frank, Clemmonsville, N. C. Vegetable and fruit drying apparatus	281,838	July 24	1895	517	24	349
Cook, Frederic, New Orleans, La. Open evaporator and furnace for cane-juice	276,161	Apr. 24	1663	{459 460}	23	1535
Cook, Frederic, New Orleans, La. Cane-juice evaporator	280,293	June 26	2059	579	23	2499
Cook, George W. (See Gaffey and Cook.)						
Cook, George W., Chicago, Ill. Elevated railway	271,425	Jan. 30	1983	{572 573}	23	398
Cook, George W., Chicago, Ill. Pipe-wrench	283,378	Aug. 21	1106	312	24	711
Cook, George W., Chicago, Ill. Hammer	283,379	Aug. 21	1107	312	24	712
Cook, George W., Chicago, Ill., assignor to J. M. McIntyre, Milwaukee, Wis. Paper-bag holder	273,963	Mar. 13	924	254	23	1000
Cook, George W., assignor to J. H. Reese, Chicago, Ill. Razor-strop	283,862	Aug. 28	1683	475	24	929
Cook, George W. F. (See Price and Cook.)						
Cook, Gideon G. (See Emerson and Cook.)						
Cook, Gideon G., Humboldt, Iowa. Automatic cord or twine elevator or holder	272,211	Feb. 13	776	215	23	586
Cook, Henry, Leadville, Colo. Amalgamator	277,889	May 22	1684	459	23	1935
Cook, Isaac N. (See McLane, Samuel B., assignor.)						
Cook, Isaac N., *et al.* (See Hall, Thomas G., assignor.)						
Cook, Jacob M., and J. S. Perkins, Lake Village, N. H.; said Cook assignor to said Perkins. Planing-machine	274,886	Mar. 27	2103	{585 586}	23	1219
Cook, James H., Lone Pine, Cal. Animal-trap	281,461	July 17	1405	386	24	260
Cook, James W., Moravia, N. Y., assignor of one-half to E. E. Brown, Lincoln, Nebr. Potato-digger	277,461	May 15	1176	316	23	1841
Cook, James W., assignor of one-half to W. S. Parker, Moravia, N. Y. Combined planter and fertilizer-distributer	290,538	Dec. 18	1477	408	25	1162
Cook, James W., assignor of one-half to W. S. Parker, Moravia, N. Y. Cultivator	290,539	Dec. 18	1478	408	25	1162
Cook, John A. (See Curtis and Cook.)						
Cook, John E. (See Shrieves and Cook.)						
Cook, John J., East Springfield, N. Y. Wire-stretcher	287,244	Oct. 23	1860	509	25	356
Cook, John W., *et al.* (See Payne, Newton W., assignor.)						
Cook, Joseph. (See Grimmett and Cook.)						
Cook, Joseph A., *et al.* (See Taber, Franklin P., assignor.)						
Cook, Joseph A., Auburn, N. Y. Apparatus for the manufacture of sugar, salt, &c	277,833	May 15	1608	439	23	1916
Cook, Joseph A., Auburn, N. Y. Apparatus for obtaining brine from salt-beds	287,909	Nov. 6	149	44	25	534
Cook, Levi G., Mapleville, R. I. Hydropneumatic engine	271,040	Jan. 23	1495	431	23	305
Cook, Levi G., Mapleville, R. I. Hydropneumatic engine	272,656	Feb. 20	1355	380	23	692
Cook, Lyman A. (See Crapon, William H., assignor.)						
Cook, Lyman A., *et al.* (See Sloper, Byron, assignor.)						
Cook, Mansfield J. and O. L., and F. R. Smith; said Smith assignor to said Mansfield J. and O. L. Cook, Syracuse, N. Y. Fire-escape	287,365	Oct. 23	2004	546	25	382
Cook, Moses, Ashfield, Mass. Folding table	283,211	Aug. 14	882	246	24	664
Cook, Orange L. (See Cook and Smith.)						
Cook, Sheldon P., Minneapolis, Minn. Grain cooler and drier	271,604	Feb. 6	25	7	23	445

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cook & Sons, William. (See McCulloch and Cook, assignors.)						
Cook, Stephen V., Toledo, Ohio. Coal-elevator	280,014	June 26	1731	485	23	2441
Cook, Thomas A. (See Millen, Mantion, Labelle, and Cook.)						
Cook, Thomas A., Ottawa, Ontario, and F. Labelle, Hull, Quebec, Canada. Match-dipping machine	277,462	May 15	1178	316	23	1842
Cook, Thomas G., assignor of one-half to J. W. Mann, Brockville, Ontario, Canada. Sulky-harrow	288,164	Nov. 6	456	127	25	587
Cook, Warren, Allegheny city, Pa. Pick	271,797	Feb. 6	255	71	23	485
Cook, William. (See McCulloch and Cook.)						
Cooke, Daniel S., Providence, R. I. Fan	275,804	Apr. 17	1233	337	23	1452
Cooke & Eddy. (See Spencer, Edward H., Jr., assignor.)						
Cooke, Frederic D., West Brookfield, Mass. Corset	279,345	June 12	919	256	23	2289
Cooke, Frederic D., assignor to C. L. Olmstead, West Brookfield, Mass. Corset	281,462	July 17	1406	386	24	260
Cooke, Henry D., *et al.* (See Wiard, Norman, assignor.)						
Cooke, Henry P., *et al.* (See Gearing, Charles, assignor.)						
Cooke, John T., Brooklyn, N. Y. Package for coffee and other materials	273,819	Mar. 13	754	205	23	971
Cooke, William A., Jr., New York, N. Y. Letter and invoice file	282,275	July 31	2453	675	24	448
Cooke, William P., Milford, Mass., assignor to New England Dental Manufacturing Company, Portland, Me. Abrasive disk-holding spindle for dental engines	290,401	Dec. 18	1279	359	25	1128
Cookson, Norman C., Newcastle upon-Tyne, county of Northumberland, England. Electrode for secondary batteries	279,346	June 12	920	257	23	2289
Cool, Peter, Manhattan, Kans. Weather-strip	287,945	Oct. 23	1860	509	25	356
Cooley, Duane B., assignor of one-half to J. O. Bates, Yankton, Dak. Ter. Pad-screw	276,135	Apr. 17	1629	449	23	1521
Cooley, Earl K., San Francisco, Cal. Insole for boots and shoes	271,798	Feb. 6	256	71	23	485
Cooley, Joshua S. (See Chedister, Winfield S., assignor.)						
Cooley, Linus B., Middletown, Conn. Pump	285,015	Sept. 18	1061	297	24	1100
Cooley, Orville, assignor to Johnston Harvester Company, Brockport, N. Y. Harvester-rake	272,212	Feb. 13	777	215	23	586
Coolidge, Ellery C., assignor to American Bell Telephone Company, Boston, Mass. Binding-screw for electric wires	273,259	Mar. 6	19	6	23	838
Coomans, Félix A., Philadelphia, Pa. Marine velocipede	271,799	Feb. 6	257	72	23	485
Coomber, George F., Kansas City, Mo. Faucet	272,858	Feb. 27	1628	456	23	748
Coomber, George F., Kansas City, Mo. Sink	287,246	Oct. 23	1861	509	25	356
Coombes, Joseph A., New York, N. Y., assignor of one-half to J. Henderson, Baltimore, Md. Ore-separator	288,550	Nov. 13	957	263	25	682
Coombs, Henry F., Charlottetown, Prince Edward Island, Canada. Butter-tub	289,390	Dec. 4	20	6	25	891
Coombs, John M., Fort Wayne, Ind. Wagon-axle	288,029	Nov. 6	303	85	25	559
Coombs, Robert H., Belfast, Me. Roller-skate	284,187	Sept. 4	35	9	24	910
Coon, George C., Jersey City, N. J. Machine for wiring corks in bottles	273,964	Mar. 13	924	254	23	1000
Coon, James H., Des Moines, Iowa. Lightning-conductor	274,564	Mar. 27	1721	478	23	1152
Coon, James H., Des Moines, Iowa. Wire-barbing machine	285,016	Sept. 18	1062	297, 298	24	1100
Cooney, Patrick H., San Francisco, Cal. Safety-fender for cars	290,746	Dec. 25	1755	485	25	1217
Coons, Nelson, Elizaville, N. Y. Adjustable ladder	281,977	July 24	2065	566	24	378
Cooper, Arthur, Middlesborough, county of York, England. Metal-working plant	274,911	Apr. 3	22	7	23	1230
Cooper, Charles A., Pittsburg, Pa. Railway pneumatic switch and electric indicator	281,839	July 24	1897	517	24	350
Cooper, Charles B., Nashville, Tenn. Sheet-metal roof-valley	287,632	Oct. 30	2362	637	25	458
Cooper, Daniel M., assignor of two-thirds to S. A. Cooper and S. A. Harris, New Castle, Ind. Pump	276,226	Apr. 24	1738	481	23	1548
Cooper, David T., Plainfield, Ind. Hog-cholera remedy	283,080	Aug. 14	722	.....	24	636
Cooper, Earl H., Winters, Cal. Draft-equalizer	280,135	June 26	1672	527	23	2466
Cooper, Edward. (See Ulsmann, Hermann, assignor.)						
Cooper, Edward A., assignor of one-half to E. P. Sears, Buffalo, N. Y. Coach-pad plate	281,179	July 10	1040	288	24	191
Cooper, Edward A., assignor of one-fourth to O. P. Letchworth, Buffalo, N. Y. Halter	284,540	Sept. 4	463	131	24	983
Cooper, Edward A., assignor of one-fourth to O. P. Letchworth, Buffalo, N. Y. Halter-trimming	284,541	Sept. 4	464	132	24	983
Cooper, Edward F. (See Shaffer, Joseph, assignor.)						
Cooper, Ella G. H. (See Cooper, George L. and E. G. H.)						
Cooper, Francis R., and J. Lemmon, Colerain, Ohio. Plow. (Reissue)	10,411	Nov. 27	1970	548	25	878
Cooper, George, Greenwood Iron Works, N. Y. Knob	283,380	Aug. 21	1108	312	24	712
Cooper, George D., Shepardsville, Mich. Combined cider mill and press	286,265	Oct. 9	594	163	25	119
Cooper, George L. and E. G. H., Albany, N. Y. Moth-proof receptacle	286,179	Oct. 9	490	135	25	102
Cooper, Glen W. (See Maloney, James A., assignor.)						
Cooper, Harriet C. (See Cooper, Joseph C., assignor.)						
Cooper, Isaac W., Apollo, Pa. Sheet and plate roll	271,605	Feb. 6	26	7	23	445
Cooper, John W., Philadelphia, Pa., assignor to W. H. Miller, Boston, Mass. Lamp-top	284,616	Sept. 11	560	158	24	1005
Cooper, John W., Philadelphia, Pa., assignor to J. B. Loomis, Boston, Mass. Boat-propeller	284,821	Sept. 11	816	227, 228	24	1049
Cooper, Jonas, Washington, D. C. Shutter and fastening therefor	276,563	May 1	23	7	23	1631
Cooper, Joseph C., assignor to H. C. Cooper, Brooklyn, N. Y. Fuel composition	279,479	June 12	1089	.....	23	2315
Cooper, Minetta P. (See Willet, Nathaniel S., assignor.)						
Cooper, Montraville, Columbia, S. C. Tricycle	286,180	Oct. 9	492	136	25	102
Cooper, Newton, Maysville, Ky., and T. E. Conwell, Aberdeen, Ohio. Cooking-stove	277,009	May 8	622	163	23	1738
Cooper, Samuel A., *et al.* (See Cooper, Daniel M., assignor.)						
Cooper, Sherman, Westfield, N. J. Apparatus for administering ether	287,098	Oct. 23	1671	459	25	323
Cooper, Theodore, assignor to W. H. Haskell Company, Pawtucket, R. I. Bolt-heading machine	277,010	May 8	623	163	23	1739
Cooper, William, *et al.* (See Holden, Henry H., assignor.)						
Cooper, William, Chicago, Ill. Steam-generator	283,756	Aug. 28	1563	440, 441	24	808
Cooper, William A. (See Bulkley, Rosalvo A., assignor.)						
Cooper, William F., Worcester, Mass. Pneumatic action for organs	271,606	Feb. 6	27	7	23	445
Cooper, William H., assignor to M. Seward & Son, New Haven, Conn. Carriage-clip	283,976	Aug. 28	1823	515	24	855
Cooper, William J., Westminster, county of Middlesex, England. Distillation of coal	282,440	July 31	2673	.....	24	487
Cooper, William S. (See Goldberg, Max, assignor.)						
Cooper, William S., Philadelphia, Pa. Oil-cup	277,683	May 15	1438	387	23	1885
Cooper, William S., Philadelphia, Pa. Cock or faucet	280,136	June 26	1672	528	23	2467
Cooper, William S., Philadelphia, Pa. Faucet	280,137	June 26	1673	528	23	2467
Coover, Jacob, Chambersburg, Pa. Grave-vault	285,233	Sept. 18	1321	372	24	1145
Cope, Edward, *et al.* (See Wright, Charles A., assignor.)						
Cope, Ezra, Hamilton, Ohio. Letter-copying press	289,983	Dec. 11	760	214	25	1028
Cope, Mason L., Denton, Tex. Gate	281,026	July 10	847	235	24	157
Copeland, Charles F., Boston, Mass. Back-pressure valve	270,890	Jan. 23	1314	379	23	276
Copeland, Charles F., assignor to S. E. Copeland, Boston, Mass. Carburetor	274,176	Mar. 20	1198	330	23	1055

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Copeland, Charles F., Boston, Mass., assignor to Thermo Gas Carbonizer Company, of Maine. Carburetor	286,622	Nov. 20	1850	229	25	706
Copeland, Charles W., Brooklyn, N. Y. Pumping system for surface-condensers	273,965	Mar. 13	928	254	23	1001
Copeland, David W., Lowville, N. Y. Plow-coiter	270,750	Jan. 16	1148	328	23	239
Copeland, Frederick A., La Crosse, Wis. Fire-alarm	286,393	Oct. 9	774	209	26	151
Copeland, Sophia E. (See Copeland, Charles F., assignor.)						
Copenhaver, H. E. (See Stommel, Julius, assignor.)						
Copleston, Edwin, Nyack, N. Y. Hat	283,963	Aug. 28	1604	475	24	829
Coppin, Daniel G., Newport, Ky. Apparatus for distilling	279,915	June 26	1611	453	23	2420
Coppock, Irvin, Barclay, Kans. Weather-strip	272,213	Feb. 13	777	215	23	586
Copron, Samuel. (See Kirkpatrick and Copron.)						
Coram, George B., *et al.* (See Coram, John C., assignor.)						
Coram, George B., *et al.* (See Dennis, John, assignor.)						
Coram, George B. and J. C., assignors to Dennis Cash Carrier Company, Lowell, Mass.) Cash or parcel carrier and track for the same	286,592	Oct. 16	1919	{276 277}	25	902
Coram, John C. (See Coram, George B. and J. C.)						
Coram, John C., *et al.* (See Dennis, John, assignor.)						
Coram, John C., Lowell, Mass. Drop-cradle and elevator for cash-carriers	272,510	May 29	2484	678	23	2063
Coram, John C., assignor to himself, E. Lamson, J. A. Coram, E. A. Thissell, S. B. Puffer, G. P. Walker, G. B. Coram, J. Dennis, and C. H. Robbins, Lowell, Mass. Switch for store-tracks	272,657	May 29	2080	738	23	2113
Coram, John C., assignor of one-half to G. B. Coram, Lowell, Mass. Vise	281,463	July 17	1497	{386 387}	24	260
Coram, Joseph A., *et al.* (See Coram, John C., assignor.)						
Corbett, Edward. (See Clifford and Corbett.)						
Corbett, George, *et al.* (See Weiss, Charles W., assignor.)						
Corbett, George W., *et al.* (See Weiss, Charles W., assignor.)						
Corbett, William W., *et al.* (See Weiss, Charles W., assignor.)						
Corbin Cabinet Lock Company. (See Mix, Frank W., assignor.)						
Corbin, Elijah H., assignor to himself, J. T. France, M. M. and G. W. McConnell, J. W. Place, J. W. Hoagland, J. B. Meibers, L. H. Corbin, and I. C. King, Decatur, Ind. Rotary engine	282,171	July 31	2330	643	24	426
Corbin, Jay S., Gouverneur, N. Y. Disk-harrow	273,966	Mar. 13	929	255	23	1001
Corbin, Lewis H., *et al.* (See Corbin, Elijah H., assignor.)						
Corbin, P. & F. (See Arens, August, assignor.)						
Corbin, P. & F. (See Sparks, William E., assignor.)						
Corbion, George, Jr., *et al.* (See Evans, Harry N., assignor.)						
Corbion, George, Jr. (See Welch and Corbion.)						
Corbitt, Samuel T., Odessa, Mo. Combined table and desk	290,962	Dec. 25	1895	523	25	1242
Corby, Edward P., St. Louis, Mo. Vapor-burner	282,612	Aug. 7	165	50	24	529
Corby, Edward P., St. Louis, Mo. Vapor-burner	286,266	Oct. 9	596	163	25	119
Corby, Edward P., St. Louis, Mo. Vapor-burner	286,267	Oct. 9	596	163	25	119
Corby, Emmons B., Bloomfield, N. J. Refrigerator	270,393	Jan. 9	606	203	23	143
Cordell, John H. (See Odell and Cordell.)						
Cordes, August W., New York, N. Y. Fire-proof ceiling	272,657	Feb. 20	1356	381	23	692
Cordes, August W., New York, N. Y. Fire-proof ceiling	272,658	Feb. 20	1356	381	23	693
Cordes, August W., New York, N. Y. Fire-proof ceiling	275,151	Apr. 3	353	97	23	1287
Cordesman & Egan Company. (See Thomas, Cordesman, and Danner, assignors.)						
Cordesman, Henry J. (See Thomas, Cordesman, and Danner.)						
Cordesman, Henry J., Jr., and J. R. Thomas, Cincinnati, Ohio. Planing-machine	275,597	Apr. 10	942	257	23	1396
Cores, E. Willis. (See Hicks, Alonzo, assignor.)						
Corkill, William, Pittsfield, Mass. Automatic sanding-box	289,984	Dec. 11	761	214	25	1027
Corliss, George H., Providence, R. I. Pump	276,903	Apr. 17	1462	408	23	1494
Corliss, William, Providence, R. I. Safe-lock	271,312	Jan. 30	1231	532	23	371
Corliss, William, Providence, R. I. Burglar-proof safe	271,313	Jan. 30	1233	533	23	371
Corliss, William, Providence, R. I. Burglar-proof safe	271,314	Jan. 30	1236	534	23	372
Corliss, William, Providence, R. I. Fire-proof structure	280,294	June 26	2060	{579 580}	23	2499
Cormack, George H., Rockford, Ill. Car-signal	290,540	Dec. 18	1480	409	25	1162
Cornelisen, Christian. (See Taylor and Ehlers, assignors.)						
Cornelius, Daniel, Lima, Ohio. Stump-extractor	287,002	Oct. 23	1546	436	25	298
Cornelius, Daniel, Lima, Ohio. Stump and grub puller	277,117	May 8	766	{201 202}	23	1763
Cornelius, Nicholas. (See Stanley and Cornelius.)						
Cornelius, Oliver H. P., and G. H. Turner, Turner, Oreg. Apparatus for removing sand-bars, &c., from rivers and harbors	284,387	Sept. 4	981	78	24	951
Cornell, Denison H., Brooklyn, and A. Schincke, New York, N. Y. Cracker-machine	281,464	July 17	1406	387	24	261
Cornell, Harmon W., Owego, N. Y. Corn-sheller	284,388	Sept. 4	982	78	24	952
Cornell, John M., New York, N. Y. Expanding bolt	282,501	Aug. 7	30	9	24	505
Cornely, Emil, Paris, France. Embroidering-machine. (Reissue)	10,277	Jan. 23	1704	{492 493}	23	340
Cornely, Emile, Paris, France. Spool-stand for sewing-machines	279,919	June 26	1612	473	23	2420
Cornford, William H., Jr., Phelps, N. Y. Phosphate-sower	279,135	June 12	668	184	23	2347
Cornish, Benjamin F., Philadelphia, Pa. Harness saddle and trimming	290,402	Dec. 18	1480	360	25	1129
Cornish, Harry B., and S. E. Hall, Hampton, Iowa. Vehicle-spring	286,312	Nov. 13	346	177	25	628
Cornman, Theodore. (See Germever, William S., assignor.)						
Cornwall, John B., assignor to Barnard & Leas Manufacturing Company, Moline, Ill. Cockle-screen	276,523	Apr. 24	2123	590	23	1613
Cornwell, William D., *et al.* (See Shields, Francis M., assignor.)						
Cornyn, William A., Pontiac, Mich. Fire-escape	277,995	May 22	1611	494	23	1957
Corr, Thomas J., Eureka Springs, Ark. Combined flour-chest and cupboard	285,577	Sept. 25	1732	468	24	1225
Corris, Thomas, Cleveland, Ohio. Flange-union	280,553	July 3	19	5	24	5
Corrugated Wire Fastening Company. (See Weeks, Horace, assignor.)						
Corthell, Fred H., Elgin, Ill. Muffle for tempering hair-springs	283,700	Aug. 21	1479	417	24	782
Corwin, Samuel W., Paterson, N. J. Signal-lamp guard	275,469	Apr. 10	800	216	23	1371
Corwin, William S., Newark, N. J. Hotel and burglar alarm electric annunciator	289,233	Nov. 27	1797	{497 498}	25	846
Cory, Charles P., St. Louis, Mo. Rotary engine	276,360	Apr. 24	1917	532	23	1578
Cory, David P., Consecon, Ontario, Canada, assignor of one-half to C. H. Osborne, Chicago, Ill. Car-coupling	290,985	Dec. 11	762	215	25	1028
Cosbie, William, San Francisco, Cal. Horse-collar	277,463	May 15	1179	317	23	1842
Cosgrove, Lawrence, Baltimore, Md. Machine for cutting key-seats	280,762	July 3	296	82	24	53
Cosgrove, Lawrence, Baltimore, Md. Universal milling-machine	282,504	Aug. 7	268	81	24	549
Cosgrove, William F., Jersey City, N. J. Automatic stop-plug for gas-pipes	286,777	Nov. 20	1344	342	25	730

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Pags.
Coskrey, David S., Troy, Ala. Ice-cream freezer	275,152	Apr. 3	354	97	23	1288
Cosley, Thomas B., New York, N. Y. Hand-stamp printing-press	276,779	May 1	325	85	23	1682
Cossel, Abijah, Wayne, Ind. Portable straw-stacker	284,280	Sept. 4	153	42	24	930
Costa Corrêa Leite, Henrique da, Paris, France. Manufacture of textile fabrics and the like	287,247	Oct. 23	1862	.....	25	356
Costello, John, Attleborough, Mass. Button	278,314	May 29	2235	613	24	2038
Costello, John, assignor to Watson & Newell, Attleborough, Mass. Button	290,321	Dec. 18	1180	330	25	1110
Costigan, Edward A., Boston, Mass. Fire-escape	284,281	Sept. 4	153	42	24	930
Costolo, George and M. J., and A. Johnson, Uniontown, Pa.; said Johnson assignor to said George Costolo. Car-coupling	288,925	Nov. 20	1419	391	25	772
Costolo, Mary J. (See Costolo and Johnson.)						
Coté, Louis, St. Hyacinthe, Quebec, Canada. Lasting-machine for boots or shoes	270,282	Jan. 9	541	159	23	116
Coté, Louis, St. Hyacinthe, Quebec, Canada. Machine for forming boot or shoe counters	279,717	June 19	1369	382	23	2371
Coté, N. Joseph, assignor of one-half to J. B. L. Rolland, Jr., Montreal, Quebec, Canada. Lock	276,004	Apr. 17	1463	403	23	1494
Cothren, Montgomery M. (See Wiebers, Marx C., assignor.)						
Cottier, Jean G. C., Jersey City, N. J., assignor to R. L. Moorhead. Mounting artificial stones	290,863	Dec. 25	1896	523	25	1242
Cottier, William T., Napa, assignor of one-half to J. F. Montgomery, Sacramento, Cal. Ventilation	281,027	July 10	847	235 236	24	157
Cottingham, Gideon W., Little Rock, Ark. Ironing-machine	282,848	Aug. 7	448	126	24	579
Cottle, Shubael, New York, N. Y. Bracelet	283,574	Aug. 21	1337	373	24	754
Cottreall, George, San Francisco, Cal. Cut-off for screening devices for middlings, flour, &c	277,547	May 15	1278	342 343	23	1858
Cottrell, Herbert, assignor to Automatic Gas Machine Company, Newark, N. J. Gas apparatus	270,181	Jan. 2	414	121	23	84
Cottrell, Joseph O., Fanwood, N. J. Electrical-wire protector	278,885	June 5	286	83	23	2172
Cottrell, Joseph O., Fanwood, N. J. Electric-wire protector	278,886	June 5	287	83	23	2172
Cotton, Charles, Olean, N. Y. Wagon-rack	289,234	Nov. 27	1799	498	25	847
Cotton, George F., Bushnell, Ill. Brick-kiln	287,633	Oct. 30	2363	637	25	458
Cotton, James B., *et al.* (See Lash, John S., assignor.)						
Cotton, John E., Fairfield, Me. Rocking-chair	284,822	Sept. 11	818	228	24	1049
Cottrell, Aaron L., Sidney, Ohio. Farm and flood fence	290,403	Dec. 18	1281	360	25	1129
Cottrell, Abraham, Lansing, Mich. Rein-holder	285,466	Sept. 25	1602	450	24	1201
Cottrell, Calvert B., Westerly, R. I. Tumbler-motion for grippers of printing-presses	280,583	July 3	298	82	24	53
Cottrell, Calvert B., Westerly, R. I. Delivery apparatus for printing-presses	280,584	July 3	299	83	24	53
Cottrell, Calvert B., Stonington, Conn. Printing-press	290,747	Dec. 25	1758	485 486	25	1218
Cottrell, Calvert B., Stonington, Conn. Printing-press	290,748	Dec. 25	1761	486	25	1219
Cottrell, Herbert, Newark, N. J. Rotary cutter for fruit-paring machines	284,823	Sept. 11	819	228	24	1049
Cottrell, Herbert, Newark, N. J. Ice-creeper	286,087	Oct. 16	1145	308	25	223
Couch, Albert C. (See Bowen, J. Howard, assignor.)						
Couch, Albert C., assignor, by mesne assignments, to Mica Tip and Lining Company, Boston, Mass. Hat or cap	282,441	July 31	2674	733	24	487
Couch, Albert C., assignor, by mesne assignments, to Mica Tip and Lining Company, Boston, Mass. Hat or cap	282,442	July 31	2675	733	24	487
Couch, Albert C., assignor, by mesne assignments, to Mica Tip and Lining Company, Boston, Mass. Hat or cap	282,443	July 31	2675	733	24	487
Couch, Albert C., assignor, by mesne assignments, to Mica Anti-Sunstroke Company, Boston, Mass. Hat, cap, &c	282,444	July 31	2676	734	24	487
Couch, James E., Clayton, N. Y. Center-board for boats	271,607	Feb. 6	29	7	23	445
Couch, James E., Clayton, N. Y. Center-board	275,361	Apr. 10	646	174	23	1345
Couch, Levi J. (See Whittemore and Couch.)						
Coughlin, John. (See Welch, Coughlin, and Mahoney.)						
Couilliard, Leander A., Boston, Mass. Moisture and pressure pad for horses' feet	288,211	Nov. 13	520	145	25	607
Coultaus, Joseph A., Brooklyn, N. Y. Door-check	288,028	Nov. 6	302	85	25	559
Coulter, Andrew C. (See Coulter, Robert S., assignor.)						
Coulter, John C., Chesterton, Ind. Railway-crossing	290,541	Dec. 18	1481	409	25	1162
Coulter, Joseph F., Burlington, Iowa. School desk and seat	273,260	Mar. 6	20	6, 7	23	838
Coulter, Robert S., assignor of one-half to A. C. Coulter, Swissvale, Pa. Label-holder for cars	270,283	Jan. 9	542	159	23	116
Coulter, William B., Bristol, Conn. Relief-valve for steam-cylinders	289,071	Nov. 27	1607	445	25	811
Coulthard, Walter, and J. Larsen, Oshawa, Ontario, Canada. Combined seed-drill and broadcast scatterer	285,234	Sept. 18	1321	373	24	1146
Counselman, Lawrence W., Baltimore, Md. Can-soldering machine	277,011	May 8	625	163 164	23	1739
Courtenay, William, *et al.* (See Chipman, William W., assignor.)						
Courtenay, William. (See Higgs and Courtenay.)						
Courtney, James W., *et al.* (See Deal, William M., assignor.)						
Courts, William J., Reidsville, N. C. Fertilizer	281,840	July 24	1898	.....	24	350
Coutant, Chauncey M., and R. Benson, Crawfordsville, Ind. Wagon-body	273,967	Mar. 13	932	255	23	1001
Coutant, Stephen, Kingston, N. Y. Apparatus for finishing or dressing brick	275,888	Apr. 17	1334	367	23	1470
Cove, Joseph T. C., Amherst, Nova Scotia, Canada, assignor to J. N. Valley, Jersey City, N. J. Chair	281,617	July 17	1600	437	24	292
Covel, Joseph W., Rockland, Me. Tobacco-cutter	289,625	Dec. 4	312	87	25	942
Covel, Milo, Chicago, Ill. Saw-swage	278,684	June 5	10	3	23	2126
Covel, Milo, Chicago, Ill. Saw-swage	279,718	June 19	1371	382 383	23	2371
Covell, Edward T., assignor of one-half to E. Dews, New Bedford, Mass. Book-cover protector	273,669	Mar. 6	548	146	23	928
Covell, William W., assignor to F. I. Marcy, Providence, R. I. Button or stud	283,864	Aug. 28	1685	476	24	829
Covell, William W., assignor to F. I. Marcy, Providence, R. I. Jewelers' burnishing-machine	283,865	Aug. 28	1686	476	24	829
Coventry, Charles B. (See Ford, Alvin, assignor.)						
Coventry, Charles B., Chicago, Ill. Locomotive-boiler	287,505	Oct. 30	2182	592 593	25	423
Coventry, Charles B., Chicago, Ill. Locomotive-boiler	290,542	Dec. 18	1482	409	25	1162
Coventry Machinists Company. (See Starley, John K., assignor.)						
Covert, H. C. (See Shaler, Ira W., assignor.)						
Covert, James C., West Troy, N. Y. Breast-chain for harness	274,723	Mar. 27	1903	531	23	1186
Covert, James C., West Troy, N. Y. Soldering-iron	283,575	Aug. 21	1338	373	24	754
Covert, William T., Indianapolis, Ind. Fire-escape ladder	281,342	July 17	1254	349	24	234
Covington, William H., *et al.* (See Simpson, Andrew J., assignor.)						
Cowan, Charles D., assignor of one-half to R. G. Shepard, Brockton, Mass. Compound boiler for generating steam	282,276	July 31	2455	676	24	449

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cowan, H. K., *et al.* (See Alfson, Andrew, assignor.)						
Cowdery, George, and E. R. Thomas Sidney, New South Wales, Australia. Rail for railways and tramways	289,626	Dec. 4	313	88	25	942
Cowdery, M. F., *et al.* (See Pelton, Richard W., assignor.)						
Cowdery, O. P., *et al.* (See Pelton, Richard W., assignor.)						
Cowdery, Warren H., *et al.* (See Sweet, George N., assignor.)						
Cowdrey, Charles H., Fitchburg, Mass. Wood-turning lathe	273,227	Feb. 27	2078	584	23	898
Cowell, Edward R. E., assignor to himself, L. Mann, E. C. Brown, and R. Miller, Detroit, Mich. Electric signal for railway-trains	286,268	Oct. 9	597	163	25	119
Cowell, Hiram, Zanesville, Ohio. Boiler-furnace	275,805	Apr. 17	1233	338	23	1452
Cowell, Newell P., assignor to Cowell Platform and Coupling Company, Cleveland, Ohio. Car-coupling	278,403	May 29	2353	643	23	2059
Cowell Platform and Coupling Company. (See Cowell, Newell P., assignor.)						
Cowie, William C., Colony of Labuan, Borneo. Vibrating propeller	271,041	Jan. 23	1496	431, 432	23	306
Cowl, Joseph H., Wheeling, W. Va. Fruit-jar	292,849	Aug. 7	449	127	24	579
Cowles, Alfred A., New York, N. Y. Insulated electric conductor	272,659	Feb. 20	1359	381	23	693
Cowles, Alfred A., New York, N. Y. Insulated electric conductor	272,660	Feb. 20	1360	381	23	693
Cowles, Alfred A., New York, N. Y., assignor to Ansonia Brass and Copper Company, Ansonia, Conn. Insulated electric conductor	281,841	July 24	1898	518	24	350
Cowles, Eugene H. (See Nelson and Cowles.)						
Cowles, Frederick A., Plantsville, Conn. Hammer and box-scraper	275,025	Apr. 3	192	51	23	1258
Cowles, George B., New Britain, Conn. Machine for putting springs in lock-bolts	283,061	Aug. 14	723	202, 203	24	636
Cowles, George B., New Britain, Conn. Machine for securing the key-post in lock-plates	283,326	Aug. 14	1023	286, 287	24	690
Cowles, George B., New Britain, Conn. Machine for slotting and driving springs into lock-tumblers	286,269	Oct. 9	598	164	25	119
Cowles, Harley D., Brighton Park, Ill., assignor to F. W. Beale, Lynn, Mass. Die for cutting nails	288,165	Nov. 6	457	128	25	587
Cowles Hardware Company. (See Steele, Elbridge J., assignor.)						
Cox, James H., Plainfield, Ind. Portable fence	281,028	July 10	851	236	24	157
Cowles, John T., Chicago, Ill. Stand-pipe for buildings	273,031	Feb. 27	1837	514	23	783
Cowles, John T., Chicago, Ill. Stand-pipe and fire-escape	273,032	Feb. 27	1838	514	23	783
Cowles, John T., Chicago, Ill. Fire-proof shutter	288,212	Nov. 13	521	145	25	608
Cowles, Milan, Bradford Lake, assignor of one-half to C. L. Fuller, Otsego Lake, Mich. Saw setting and sharpening device	280,138	June 26	1874	528	23	2467
Cowles, William, Newburg, N. Y., assignor of one-half to N. T. Bacon, Norwich, Conn. Bottle-washing machine	286,394	Oct. 9	774	209, 210	25	151
Cowley, Josiah B., and S. S. Morse, Boston, Mass. Paint-brush holder	288,692	Nov. 20	1141	314	25	721
Cowley, William W. (See Bradshaw and Cowley.)						
Cowman, Charles H., *et al.* (See Carrick, Thomas J., assignor.)						
Cox, Abner R. (See Taylor and Cox.)						
Cox, Allan, Chelsea, Mass. Sheet-metal pan	275,806	Apr. 17	1234	338	23	1453
Cox, Daniel O., Mannsville, N. Y. Horse checking and unchecking device	287,419	Oct. 30	2074	564	25	403
Cox, H. M., *et al.* (See Irish, Judah W., assignor.)						
Cox, Henry F., Altoona, Pa. Railway-crossing. (Reissue)	10,265	Jan. 2	434	126	23	89
Cox, Isaac H., Bridgeton, N. J. Can-soldering machine	278,100	May 22	1933	530	23	1978
Cox, J. D., Jr., *et al.* (See Richards, Francis H., assignor.)						
Cox, John, Albany, N. Y. Pump	273,261	Mar. 6	21	7	23	898
Cox, John, Albany, N. Y. Apparatus for drawing liquids from barrels	288,978	Nov. 27	1493	413	25	792
Cox, John A. M., Indianapolis, Ind. Steam-boiler	279,920	June 26	1613	453	23	2420
Cox, John J., Virden, Ill. Velocipede	271,800	Feb 6	280	72	23	486
Cox, Joseph J., Lawrence, Kans. Straw-stacker	290,975	Dec. 25	2054	565	25	1267
Cox, Joseph L., Milwaukee, Wis. Skylight-frame	272,859	Feb. 27	1629	456	23	748
Cox, L. M., *et al.* (See Bedbury, George W., assignor.)						
Cox, Lorenzo D., Mason City, Ill. Velocipede	279,541	June 19	1168	323, 324	23	2336
Cox, Robert M., Prairie City, Ill. Ruffling or gathering attachment for sewing-machines	270,751	Jan. 16	1149	329	23	239
Cox, Robert S., *et al.* (See Wagner and Seath, assignors.)						
Cox & Sedgwick. (See Cockshaw, Herbert, assignor.)						
Cox, Walter J., Wichita, Kans. Window-shade	282,277	July 21	2455	676	24	449
Cox, William F. (See Mayer, Ferdinand, assignor.)						
Cox, William H., Virden, Ill. Gate	287,805	Nov. 6	19	6, 7	25	510
Cox, William J. (See Ingram, William B., assignor.)						
Coxe, Edward D. (See Parker, Sidney, assignor.)						
Coxon, William H., Worcester, Mass. Stop mechanism for engine-lathes	286,786	Oct. 16	1266	343	25	244
Coy, Frederick W., assignor to G. H. P. Flagg, trustee, Boston, Mass. Abrading-machine	289,986	Dec. 11	764	215	25	1028
Coy, George W., Milford, Conn., assignor of two-thirds to J. G. Smith, Hackensack, N. J., and C. E. Buell, New Haven, Conn. Telephone-exchange switch	275,362	Apr. 10	648	174	23	1345
Coy, Henry E., Mansfield, Ohio. Machine for threading the points of lag-screws	276,671	May 1	163	42	23	1653
Coy, Oscar F., North Bennington, Vt. Driving-rein	289,072	Nov. 27	1609	445	25	812
Coyle, Edward, St. Louis, Mo. Compound for the manufacture of steel	288,979	Nov. 27	1494	.....	25	792
Coyle, John J., Honey Creek, Iowa. Stalk-cutter	287,248	Oct. 23	1662	510	25	356
Coyle, Robert E. (See Duncan and Coyle.)						
Crabb, William, Newark, N. J. Tooth for gilling and hackling machines	287,506	Oct. 30	2183	593	25	494
Crabtree, Thomas A., East Surry, Me. Holdback	278,887	June 5	289	83	23	2172
Crabtree, Thomas A., East Surry, Me. Book-holder	283,576	Aug. 21	1340	374	24	754
Crabtree, Thomas A., East Surry, Me. Hub-attaching device	289,627	Dec. 4	314	88	25	943
Craft, Johnston S., Alliance, Ohio. Machine for making the eyes of hoes	275,363	Apr. 10	651	174	23	1346
Crafts, Samuel L. (See Bray, William H., assignor.)						
Cragin Bros. & Co. (See Beaman and Cragin, assignors.)						
Cragin, Patrick H., Franklin, N. H., assignor of one-half to Richards & Co., Gardiner, Me. Paper-pulp screen	277,239	May 8	910	244	23	1788
Cragin, William P. (See Beaman and Cragin.)						
Craig, Isaac E., Camden, Ohio. Manufacture of sheet-iron	280,799	July 10	580	.....	24	109
Craig, James A. (See Jelinek, Anton, assignor.)						
Craig, James D., Detroit, Mich. Wood-turning machine	280,453	July 3	143	39	24	27
Craig, James F., West Liberty, Ohio. Check-row planter	289,987	Dec. 11	765	215	25	1028
Craig, John, San Francisco, Cal. Guard for cars	285,975	Oct. 2	245	69, 70	25	47
Craig, John W. (See Ballard and Craig.)						
Craig, John W. (See Beers and Craig.)						
Craig, Joseph A. I., Montreal, Quebec, Canada. Dynamo-electric machine	277,237	May 8	907	243	23	1788

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Craig, Joseph A. I., Montreal, Quebec, Canada. Dynamo-electric machine	277,238	May 8	908	244	23	1788
Craig, Joseph K., Canton, Ohio. Reiu-holder	285,976	Oct. 2	246	70	25	47
Craig, Lee D., San Francisco, Cal. Sewer or stench trap	270,876	Jan. 16	1291	373	23	267
Craig, Lee D., San Francisco, Cal. Plug stop-valve	274,724	Mar. 27	1904	532	23	1186
Craig, Lee D., San Francisco, Cal. Revolving water-closet stench-trap	274,725	Mar. 27	1905	532	23	1186
Craig, Warren H., Lawrence, Mass. Steam-engine governor	271,315	Jan. 30	1839	534	23	372
Craig, Warren H., Lawrence, Mass. Lubricator	277,464	May 15	1180	317	23	1842
Craig, Warren H., Lawrence, Mass. Lubricator	281,241	July 17	1128	310	24	213
Craig, William S., Courtney, Tex. Cotton-chopper	271,801	Feb. 6	259	72	23	486
Craige, Edward H., Brooklyn, N. Y., and F. Henry, Philadelphia, Pa. Binder attachment for sewing-machines	275,869	Apr. 17	1335	367	23	1471
Craighead & Elwell Manufacturing Company. (See Bennett, Dwight W., assignor.)						
Craighead & Elwell Manufacturing Company. (See Maschmeyer, Charles, assignor.)						
Craighead, Horace, New York, N. Y. Plaque	286,118	Oct. 2	415	113	25	76
Craigie, Hugh H., assignor to J. Craigie, Stamford, Conn. Fire-escape	271,802	Feb. 6	260	73	23	486
Craigie, Julia. (See Craigie, Hugh H., assignor.)						
Craik, Robert, Hawley, Minn. Conveyer for mill products	275,153	Apr. 3	354	97	23	1288
Crain, Charles S., *et al.* (See Murray, James W., assignor.)						
Cram, Roys J., Detroit, Mich. Pile-driver	284,292	Sept. 4	155	43	24	930
Cram, William H H., and G. S. Tompkins, Detroit, Mich. Sham-holder	284,119	Aug. 28	2024	563	24	888
Cramer, Herman, Sonora, Cal. Treadle for sewing-machines, &c	271,426	Jan. 30	1984	573	23	399
Cramer, Joseph C., Leadville, Colo. Pick	272,661	Feb. 20	1361	382	23	693
Cramer, Philip, Montreal, Quebec, Canada. Hanger for shafting	281,343	July 17	1255	349	24	234
Crampton, B. F. (See Leach, William F., assignor.)						
Crandal, Edward M. (See Kay, William V., assignor.)						
Crandal, George L., Binghamton, N. Y. Locking the nuts of carriage-top props	281,344	July 17	1256	349	24	235
Crandal, George L., assignor of one-half to C. M. and W. H. Stone, Binghamton, N. Y. Carriage-curtain fastener. (Reissue)	10,301	Apr. 3	615	165	23	1330
Crandall, Jesse A., Brooklyn, N. Y. Building-block	270,206	Jan. 9	450	131	23	99
Crandall, Jesse A., Brooklyn, N. Y. Rocking toy for children	270,891	Jan. 23	1314	380	23	276
Crandall, Jesse A., Brooklyn, N. Y. Child's carriage	280,454	July 3	146	39	24	27
Crandall, William E., New York, N. Y. Rocking horse and gig	270,023	Jan. 2	232	67	23	48
Crandall, William E., New York, N. Y. Toy	271,427	Jan. 30	1985	573	23	399
Crandall, William E., New York, N. Y. Combined desk and blackboard	275,508	Apr. 10	949	258	23	1397
Crandall, William E., New York, N. Y. Toy building-block	278,224	May 22	2095	577	23	2006
Crandall, William E., assignor of one-half to E. I. Horsman, New York, N. Y. Alphabet block and case	275,329	Apr. 3	568	155	23	1322
Crandell, Alfred, Pine Plains, N. Y. Rolling-mill	281,978	July 24	2066	566	24	378
Crandell, William, Westfield, N. Y. Car-coupling	271,685	Feb. 6	121	33	23	461
Crandell, William C., Jr., assignor of one-half to S. D. Strohm, Philadelphia, Pa. Apparatus for automatically stopping railway-trains	275,599	Apr. 10	950	258, 259	23	1397
Crandle, John T., Savannah, N. Y. Screen	290,666	Dec. 25	1642	452	25	1197
Crane, Augustus S., Newark, N. J. Secondary electric clock	286,181	Oct. 9	493	136	25	102
Crane, Augustus S., Newark, N. J. Compensating pendulum	288,027	Nov. 6	301	85	25	558
Crane, Augustus S., Newark, N. J. Actuating device for secondary electric clocks	288,623	Nov. 20	1051	289, 290	25	706
Crane Brothers Manufacturing Company. (See Roberts, Charles E., assignor.)						
Crane, Charles S., Chicago, Ill. Reversing-valve	279,921	June 26	1614	453, 454	23	2420
Crane, Charles W., Batavia, Iowa. Slotting-shears	287,249	Oct. 23	1863	510	25	356
Crane, Clark R., Morrice, Mich. Tag	278,888	June 5	289	83	23	2173
Crane, Daniel, Seneca Falls, N. Y. Horseshoe	289,504	Dec. 4	167	46	25	915
Crane, George S. (See Wortham, John B., assignor.)						
Crane, Gerard, assignor to B. Willard, New York, N. Y. Horse-blanket	274,177	Mar. 20	1199	330	23	1056
Crane, Harold L., Brooklyn, N. Y., and J. Lines; said Lines assignor to Scovill Manufacturing Company, Waterbury, Conn. Epaulette	279,480	June 12	1090	301	23	2315
Crane, James B., assignor to himself, Z. M. and W. M. Crane, Dalton, Mass. Paper	283,701	Aug. 21	1480	417	24	782
Crane, Moses G., Newton, Mass. Indicator for fire-alarm purposes	273,033	Feb. 27	1839	514, 515	23	783
Crane, Richard T., Chicago, Ill. Steam-radiator attachment	287,099	Oct. 23	1672	459	25	323
Crane, Theodore T., Hackensack, N. J., and J. G. Sanderson, Scranton, Pa. Wallkill roofing-cement	274,178	Mar. 20	1200	330	23	1056
Crane, Thomas, assignor of one-half to L. S. Kellogg, Fort Atkinson, Wis. Gate-latch	290,176	Dec. 11	985	278	25	1069
Crane, Thomas R., Mantua, Va. Combined seed-sower, fertilizer, harrow, and roller	276,361	Apr. 24	1918	532	23	1579
Crane, Thomas S. (See Adams, George B., assignor.)						
Crane, William, Castroville, Cal. Grain-separator	282,705	Aug. 7	290	82	24	550
Crane, Winthrop M., *et al.* (See Crane, James B., assignor.)						
Crane, Zenas M., *et al.* (See Crane, James B., assignor.)						
Cranford, Frank H., Redding, Cal. Nut-lock	287,003	Oct. 23	1547	426	25	298
Cranford, James F., Oak Hill, Ala. Composition for tanning hides	271,804	Feb. 6	263	.....	23	487
Crangle, Edward J. (See Elliott, George E., assignor.)						
Cranson, Giles S., Silver Creek, N. Y. Machine for hulling and granulating grain	283,212	Aug. 14	883	246	24	664
Cranston, John H., Norwich, Conn. Printing-machine	284,947	Sept. 11	964	271	24	1076
Crapon, George M., and R. H. Pickett, Wilmington, N. C. Draining-case for barrels	272,415	Feb. 20	1050	295	23	638
Crapon, William H., assignor, by mesne assignments, to himself and L. A. Cook, Woonsocket, R. I. Producing fleeced fabrics	279,922	June 26	1615	454	23	2421
Crary, Cushman W., Chicago, Ill. Gear-cutter	282,059	July 31	2170	595, 596	24	402
Crate, Joseph G., Woodstown, and J. F. Morell, Camden, N. J. Car-starter	284,948	Sept. 11	966	271, 272	24	1076
Craus, Henry S., Brooklyn, N. Y. Handle-cap for traveling-bags	271,803	Feb. 6	262	73	23	486
Craven, Thomas C. (See Purves and Craven.)						
Cravens, Vincent, Madison, Ind. Flexible ladder	279,542	June 19	1169	324	23	2336
Craver, Steele & Austin. (See Wheeler, James J., assignor.)						
Crawford, Adam, Sebastopol, Cal. Fruit-drier	279,719	June 19	1372	383	23	2372
Crawford, Angus, Boston, Mass. Express-signal	274,726	Mar. 27	1906	532	23	1186
Crawford, Burton, Cross Roads, Ohio. Post-hole-digging machine	280,585	July 3	301	83	24	54
Crawford, Charles H. (See Welch and Corbion, assignors.)						
Crawford, Frank L. (See Wagner, Gustavus G., assignor.)						
Crawford, James G., Boston, Mass. Centrifugal clothes-wringer	273,262	Mar. 6	23	7	23	838
Crawford, James M., Bentonville, and T. B. Kirkwood, Milton, Ind. Straw-stacker	273,470	Mar. 6	298	81	23	884
Crawford, John, Brooklyn, assignor to W. H. Warburton, New York, T. F. and D. Boyle, Brooklyn, N. Y. Fire-escape	274,278	Mar. 20	1328	366, 367	23	1079
Crawford, John M., Philadelphia, Pa. Illuminating clocks	281,465	July 17	1410	387	24	261

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drgs.	Vol.	Page.
Crawford, John R. M., Bonneville, Miss. Shingle-machine	280,354	July 3	19	5	24	5
Crawford, Martin B., Terre Haute, Ind. Screw-driver	274,912	Apr. 3	24	7	23	1231
Crawford, Martin B., and C. E. Temple, Terre Haute, Ind. Fan attachment	272,416	Feb. 20	1051	295	23	638
Crawford, Middleton, Wiarton, Ontario, Canada. Flour-dressing machine	287,250	Oct. 23	1564	510	25	356
Crawford, Middleton, assignor of one-half to H. Campbell, Wiarton, Ontario, Canada. Corkle-machine	285,344	Sept. 18	1447	402	24	1168
Crawford, William M. (See Butler, Earhart, and Crawford.)						
Crawford, Wiggins A., San Antonio, Tex., assignor of one-half to E. Ellis, Terre Haute, Ind. Telephone-transmitter	270,752	Jan. 16	1150	339 / 330	23	239
Crawley, Edwin, Newport, Ky., and C. H. Albrecht, Cincinnati, Ohio; said Crawley assignor to said Albrecht. Harness and vehicle loop	273,930	Mar. 13	755	285	23	971
Cray, William H., *et al.* (See Jewett, Nathan, assignor.)						
Cray, William H., *et al.* (See Shepler, Pina L., assignor.)						
Creagan, John, assignor of one-fourth to C. D. Tyler, Jr., Cleveland, Ohio. Spring-setting machine	286,235	Sept. 18	1325	373	24	1146
Creager, Jonathan, Cincinnati, Ohio. Brick-machine	284,949	Sept. 11	962	272	24	1077
Creselius, Louis J. (See Bevis, Isaacher L., assignor.)						
Creselius, Louis J., assignor of one-half to A. Warren, St. Louis, Mo. Lifting-jack	279,394	Jan. 9	686	203	23	144
Creecy, Charles E., and A. B. Burns, Washington, D. C. Fire-escape	279,347	June 12	921	257	23	2289
Creecy, Charles E., and A. B. Burns, Washington, D. C. Fire-escape	279,348	June 12	922	257	23	2289
Creecy, Edward W., *et al.* (See Crowley, David, assignor.)						
Crehore, George, St. Louis, Mo. Endless train-conveyer	282,959	Aug. 14	574	162	24	609
Creighton, James P., assignor of one-half to W. Deering, Louisville, Ky. Friction gearing or pulley	286,533	Oct. 9	939	253	25	181
Creighton, Lawrence, Cincinnati, Ohio. Sleeping-car	288,926	Nov. 20	1420	391	25	772
Cremer, John H., Chicago, Ill. Tuyere for blast-furnaces	278,665	June 5	11	3	23	2126
Cremer, John H., Chicago, Ill. Method of and apparatus for heating the gaseous fuel of furnaces	278,869	June 5	290	84	23	2173
Cremer-Firnay & Cie., A. (See Lemaire, Jean T., assignor.)						
Crepin, Emile A., and F. Rochat, Hollister, Cal. Gun for destroying animals	274,959	Mar. 20	1330	367	23	1079
Creque, Allen P., New York, N. Y. Planing-machine	274,565	Mar. 27	1722	479	23	1153
Creque, Allen P., New York, N. Y. Overflow-connection for bath-tubs	286,270	Oct. 9	600	165	25	120
Creque, Allen P., New York, N. Y. Boiler	290,667	Dec. 25	1643	452	25	1197
Crease, George H., Cape May, N. J. Horse-detacher	282,960	Aug. 14	576	163	24	610
Cressman, George W., Barren Hill, Pa. Rag-engine	289,235	Nov. 27	1800	498	25	847
Creter, George. (See Beck and Creter.)						
Crich, Fredrick. (See Roberts and Crich.)						
Crich, Fredrick, assignor to H. Roberts, Pittsburg, Pa. Apparatus for wiping wire	275,364	Apr. 10	652	174	23	1346
Crich, Henry, Pittsburg, Pa. Wire-wiper	274,727	Mar. 27	1907	532	23	1186
Crikelair, Gustave J., New York, N. Y. Fire-extinguishing compound	275,315	May 29	2236	.....	23	2038
Cripe, David C., North Manchester, Ind. Milk-can	276,730	May 1	398	85	23	1662
Crippen, Henry M., assignor of one-half to J. M. Crippen, Big Run, Ohio. Vehicle-brake	290,543	Dec. 18	1483	410	25	1163
Crippen, John M. (See Crippen, Henry M., assignor.)						
Crismon, Carrell W., and A. F. Whitaker, deceased, Vienna, Mo.; J. W. Rowden administrator of said Whitaker. Endless cable carrier	280,295	June 26	2063	580	23	2500
Crisp, James L., Bloomfield, N. J. Barrel-truck	289,753	Dec. 4	478	135	25	970
Crispin, Thomas, Detroit, Mich. Bench-clamp	282,961	Aug. 14	577	163	24	610
Crist, Peter, Brighton, Ill. Fracture apparatus	278,101	May 22	1934	531	23	1979
Critchett, Oliver G., Belfast, Me. Mechanism for preparing boot or shoe uppers for lasting	289,391	Dec. 4	91	7 8	25	891
Critchlow, Thomas, Pittsburg, Pa. Ingot-manipulator	278,511	May 29	2485	678 / 679	23	2083
Critchlow, Thomas, Pittsburg, Pa. Soaking-furnace for ingots	278,512	May 29	2487	679	23	2083
Crittenden, Ralph, Hartford, and R. G. Henry, Waterbury, Conn. Calipers	278,225	May 22	2006	577	23	2006
Crocker, Benjamin F., Hyannis, Mass. Screw or nut fastening for railway-bar joints	287,806	Nov. 6	20	7	25	511
Crocker, Benjamin S., assignor of one-half to W. H. Hill, Topeka, Kans. Lock-nut	281,180	July 10	1041	289	24	191
Crocker, Francis B. (See Curtis and Crocker.)						
Crocker, Francis B. (See Wheeler, Curtis, and Crocker.)						
Crocker, Francis B., C. G. Curtis, and S. S. Wheeler, New York, N. Y. Electric railway	281,672	July 24	1675	456	24	310
Crocker, James A., assignor to H. N. Smith, Boston, Mass. Filter	279,236	June 12	762	211	23	2263
Crocker, John B., St. Louis, Mo. Mechanical movement	282,962	Aug. 14	577	163	24	610
Crockett, Charles H., Boston, Mass. Electric gas-lighting burner	271,805	Feb. 6	263	73	23	487
Crockett, Charles H., assignor to Boston Electric Company, Boston, Mass. Electric gas-lighter	281,345	July 17	1257	350	24	235
Crockett, Finley M. (See Elson and Crockett.)						
Crockett, James D., Ripley, Miss. Muzzle	272,214	Feb. 13	778	215 / 216	23	586
Crockford, Alfred H., Newark, N. J. Steam-generator	282,172	July 31	2331	643	24	497
Crofoot, George W., assignor to H. L. Crofoot, Tully, and G. H. Smith, Baldwinsville, N. Y. Two-wheeled vehicle	290,976	Dec. 25	2055	565	25	1267
Crofoot, Harriet L., *et al.* (See Crofoot, George W., assignor.)						
Croft, David L., Springfield, Ohio. Blackboard-eraser	274,566	Mar. 27	1723	479	23	1153
Croft, David L., Springfield, Ohio. Motor	283,757	Aug. 28	1565	441	24	808
Croft, Edward, assignor to Waterbury Horse Nail Company, Waterbury, Conn. Machine for rolling horseshoe-nails	285,800	Oct. 2	22	7, 8	25	6
Croft, Henry, Jr., Springfield, Ohio. Power-converter	287,634	Oct. 30	2364	638	25	458
Croft, Silas C. (See Peterson, Adolphus, assignor.)						
Crompton, George. (See Wyman, Horace, assignor.)						
Crompton, George, Worcester, Mass. Loom	274,913	Apr. 3	27	8	23	1231
Crompton, George, Worcester, Mass. Mechanical movement	274,914	Apr. 3	32	9	23	1231
Crompton, George, Worcester, Mass. Loom	282,502	Aug. 7	31	9, 10	24	506
Crompton, George, and H. Wyman, Worcester, Mass., assignors to said Crompton. Mechanical movement	281,842	July 24	1899	518	24	350
Crompton, George, and H. Wyman, Worcester, Mass.; said Wyman assignor to said Crompton. Loom-temple	284,120	Aug. 28	2025	563	24	889
Crongeyer, Charles A., assignor to himself and G. W. Busch, Detroit, Mich. Mechanical toy	271,686	Feb. 6	123	34	23	461
Cronk, William, Havana, N. Y. Barn-door hanger and rail-bracket	272,031	Feb. 13	556	150	23	549
Cronk, William, Havana, N. Y. Stay-roller for sliding doors	288,980	Nov. 27	1494	414	25	792
Cronk, William, Havana, N. Y. Stay-roller for sliding doors	288,981	Nov. 27	1495	414	25	792
Cronyn, William M. (See Conly, Mahlon S., assignor.)						
Crooke, Henry S. and L., New York, N. Y. Combined foil and paper fabric	289,505	Dec. 4	168	46	25	916
Crooke, Lewis. (See Crooke, Henry S. and L.)						
Crooke, Thomas, Newark, N. J. Mouse-trap	270,753	Jan. 16	1154	330	23	240

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cropper, John, New York, N. Y. Water-closet bowl	270,754	Jan. 16	1154	330	23	240
Crosby, George H., Somerville, Mass. Steam-pressure gage	272,860	Feb. 27	1629	456	23	748
Crosby, George H., Somerville, Mass. Hydraulic trap	280,355	July 3	20	5	24	6
Crosby, George H., Somerville, Mass. Trap for steam-pressure gages	288,693	Nov. 20	1142	314	25	721
Crosby, George S., Bridgeport, Conn. Toy	276,524	Apr. 24	2124	501	23	1614
Crosby, George S., assignor of one-half to J. Watson, Jr., Bridgeport, Conn. Toy vehicle	276,227	Apr. 24	1739	482	23	1549
Crosby Steam Gage and Valve Company. (See Meady, Albert C., assignor.)						
Crosier, Thomas, Columbus, Ohio. Tool for expanding and beading flues	281,346	July 17	1259	350	24	235
Cross, Abraham V., Williamsport, Pa. Cutter-head	275,890	Apr. 17	1335	368	23	1471
Cross, Abraham V., Williamsport, Pa. Feed-roller for planing-machines	280,720	July 3	457	131	24	82
Cross, Albert L. (See Cross, John L., assignor.)						
Cross, Benjamin C., Dewsbury, county of York, England. Water-closet	270,934	Jan. 23	1369	395	23	286
Cross, Edwin M., Syracuse, N. Y. Belting	274,280	Mar. 20	1331	367	23	1079
Cross, Frank W., Lynn, Mass. Button-hole sewing-machine	279,349	June 12	923	257, 258	23	2290
Cross, Freeman H., Pulaski, assignor of one-half to R. D. Gardner, Adams, N. Y. Mechanism for converting motion	281,347	July 17	1260	350	24	236
Cross, George W., Gardiner, Me., assignor to E. Ingram, Philadelphia, Pa. Car-coupling	286,271	Oct. 9	601	165	25	120
Cross, Jerome A., Fultonville, N. Y. Truck for conveying material on an elevated track	270,755	Jan. 16	1155	331	23	240
Cross, Jerome A., Fultonville, N. Y. Bucket for conveying ensilage, coal, plaster, &c	270,756	Jan. 16	1156	331	23	241
Cross, John C. (See Mors and Cross.)						
Cross, John L., Philadelphia, Pa. Heel-burnishing machine	278,102	May 22	1935	531	23	1979
Cross, John L., assignor to A. L. Cross, Philadelphia, Pa. Buffing-pad	290,631	Dec. 18	1598	439	25	1182
Cross, William C., Boston, Mass. Machinery for folding paper, &c	275,154	Apr. 3	356	98	23	1288
Cross, William C., Boston, Mass. Necktie	288,192	Nov. 6	491	137	25	593
Cross, William C., Boston, Mass. Necktie	288,561	Nov. 13	971	267	25	685
Crosser, Simon, *et al.* (See Secor, William H., assignor.)						
Crossette, Charles H., Chicago, Ill. Necktie or scarf fastener	277,465	May 15	1181	317	23	1842
Crossette, Charles H., Chicago, Ill. Neck-scarf	278,316	May 29	2236	613	23	2039
Crossley, Harry A., Cleveland, Ohio. Knife for stave-jointing machines	269,831	Jan. 2	16	6	23	5
Crossley, Harry A., Cleveland, Ohio. Balancing knives for wood-working machines	285,236	Sept. 18	1326	374	24	1146
Crossley, Louis J., Halifax, county of York, England. Telephone-receiver	280,800	July 10	581	162	24	109
Crossman, Amory W., West Warren, Mass. Drawing-knife and attachment therefor	286,787	Oct. 16	1267	343	25	245
Crosthwaite, James D., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. File	273,821	Mar. 13	757	205	23	972
Crotta, George S., Philadelphia, Pa. Glass-batch mixer	284,121	Aug. 28	2026	564	24	889
Crouch, George, New York, N. Y. Clasp for pocket-books, &c	276,362	Apr. 24	1920	532	23	1579
Crouch, George, New York, N. Y. Frame for hand-bags	282,850	Aug. 7	450	127	24	580
Crouch, George, New York, N. Y., assignor to J. H. Sessions, Bristol, Conn. Trunk-catch	290,977	Dec. 25	2056	566	25	1267
Crowe, Alexander F., Emporia, Kans. Brick-mold	283,758	Aug. 28	1566	441	24	809
Crowe, Thomas, South Chicago, Ill. Bessemer converter	283,577	Aug. 21	1341	374	24	754
Crowell, Hilen C., Erie, Pa. Shaft-hanger	272,861	Feb. 27	1630	456	23	748
Crowell, Hilen C., Erie, Pa. Machine for sawing segment-blocks	275,807	Apr. 17	1235	338, 339, 340	23	1453
Crowell, Hilen C., Erie, Pa. Shaft-hanger	278,404	May 29	2354	643	23	2060
Crowell, Hilen C., Erie, Pa. Friction-clutch	281,242	July 17	1130	311	24	213
Crowell, Hilen C., Erie, Pa. Taper-sleeve fastening for pulleys, &c	281,618	July 17	1600	437, 438	24	292
Crowell, Hilen C., Erie, Pa. Dead-pulley rig	285,467	Sept. 25	1602	450	24	1201
Crowell, Hilen C., Erie, Pa. Dead-pulley rig	289,073	Nov. 27	1609	446	25	812
Crowell, Horace S., *et al.* (See Pattyson, William D. C., assignor.)						
Crowell, John, Jr. (See Brainard, Curtis B., assignor.)						
Crowell, John, Jr. (See Whitney, Ruel W., assignor.)						
Crowell, John H., Providence, R. I. Dividers	285,017	Sept. 18	1066	298	24	1101
Crowell, Luther C., Brooklyn, N. Y. Sheet-delivery apparatus for printing-machines	276,672	May 1	165	42, 43, 44, 45	23	1654
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Air-cushioning apparatus for printing-machines	274,084	Mar. 13	1074	296	23	1026
Crowell, Luther C., Boston, Mass., assignor to R. Hoe & Co., New York, N. Y. Paper-folding machine. (Reissue)	10,300	Apr. 3	608	163, 164, 165	23	1328
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-delivery apparatus	277,548	May 15	1280	343, 344, 345	23	1858
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Folding-machine	277,549	May 15	1283	345	23	1858
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Air-cushioning apparatus for printing-machines	277,550	May 15	1285	345	23	1858
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet feeding and registering apparatus	278,777	June 5	125	36, 37, 38, 39, 40	23	2145
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet feeding and registering apparatus	278,778	June 5	136	40, 41, 42	23	2146
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Folding-machine	281,619	July 17	1601	438, 439	24	292
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-delivery apparatus	281,754	July 24	1785	486, 487	24	329
Crowley, David, assignor of three fourths to E. W. Creecy and R. Walsh, Washington, D. C. Fire-escape	276,363	Apr. 24	1920	532	23	1579
Crowley, Fredrick G., Sedalia, Mo. Vehicle-pole	275,470	Apr. 10	801	216	23	1371
Crowley, John H., Philadelphia, Pa. Loom-temple	276,959	May 1	558	145	23	1721
Crowley, John H., and B. M. Temple, Galveston, Tex. Split switch	277,684	May 15	1439	388	23	1885
Crowley, Peter J. (See Starke and Crowley.)						
Crowley, Thomas L., Rew, Pa. Tubing, packing, and operating oil-wells	280,139	June 26	1875	528	23	2467
Crowson, William L., Memphis, Tenn. Combined cleaner and feeder for cotton-gins	279,720	June 19	1374	383, 384	23	2372
Crowther, Henry, assignor of one-fourth to W. L. Chaffee, Providence, R. I. Wrench	288,927	Nov. 20	1422	392	25	772
Crozier, George W. (See Ellis, Ralph E., assignor.)						
Crozier, William C., Knoxville, Tenn. Fruit-drier	277,685	May 15	1440	388, 389	23	1885

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Crull, Emily B. (See Crull, Peter D., assignor.)						
Crull, Peter D., assignor to E. B. Crull, Roodhouse, Ill. Boot and shoe jack	287,100	Oct. 23	1673	459	25	323
Crum, Charles L., Winchester, Va. Cask	276,364	Apr. 24	1922	533	23	1579
Crumbie, Alexander, Brooklyn, N. Y. Baker's oven	271,806	Feb. 6	265	73	23	487
Cruslus, Ludwig, Kaiseralantern, Bavaria, Germany. Steam and water heat radiating apparatus	279,721	June 19	1375	384	23	2372
Crutchfield, William T., Henry Station, Tenn. Pea-huller	273,968	Mar. 13	933	256	23	1001
Crutsinger, Charles W., St. Louis, Mo. Apparatus for casting printers' rollers	274,728	Mar. 27	1907	533	23	1187
Cruttenden, George E. (See Smith, Henry V., assignor.)						
Cubberley, Henry S., and D. Mann, Bloomington, Ill. Water-crane	280,140	June 26	1879	529	23	2467
Cubbins, Thomas, Memphis, Tenn. Cistern-cover	285,801	Oct. 2	24	8	25	6
Cubley, Edwin J., Ravenswood, Ill. Banjo	274,915	Apr. 3	35	9	23	1232
Culbertson, James C., and W. A. Eudaly, Cincinnati, Ohio. Kiln and furnace for burning brick, tile, &c	281,029	July 10	852	236, 237	24	158
Culbertson, John W., Indianapolis, Ind. Artificial ear-drum	270,284	Jan. 9	543	160	23	116
Cullen, Curtis, Knoxville, Tenn. Fruit-drier	285,018	Sept. 18	1067	238	24	1101
Cullen, Israel, Pittsburg, Pa. Brick-machine	276,228	Apr. 24	1740	482, 483	23	1549
Cullen, William F., Logansport, Ind. Fire-escape	279,638	June 19	1979	355	23	2356
Cullinan, Paul J., New York, N. Y. Comb	279,227	June 12	765	211	23	2264
Cullingworth, George R., New York, N. Y. Inlet-valve for air-compressors	287,004	Oct. 23	1548	426	25	298
Cullingworth, George R., New York, N. Y. Outlet-valve for air-compressors	287,005	Oct. 23	1548	427	25	298
Cullingworth, George R., New York, N. Y. Journal-box	287,006	Oct. 23	1549	427	25	299
Cullingworth, George R., New York, N. Y. Safety-governor for air-compressors	287,101	Oct. 23	1674	459	25	323
Cullingworth, George R., New York, N. Y. Rock drill support	287,102	Oct. 23	1675	460	25	324
Cullingworth, George R., New York, N. Y. Tripod for rock-drills	287,103	Oct. 23	1676	460	25	324
Cullingworth, George R., New York, N. Y. Air-compressor	287,104	Oct. 23	1677	460	25	324
Cullingworth, George R., and C. W. Potter, assignors to Sergeant & Cullingworth Company, New York, N. Y. Pressure-regulator for air-compressors	287,105	Oct. 23	1681	461	25	325
Cullingworth, George R., and C. W. Potter, assignors to Sergeant & Cullingworth Company, New York, N. Y. Inlet-valve for air-compressors	287,007	Oct. 23	1550	427	25	299
Cullmer, George I., *et al.* (See Weiss, Charles W., assignor.)						
Culver, George M. (See Frazee and Culver.)						
Culver, Ira, Cleveland, Ohio. Screw-cutting head	274,281	Mar. 20	1332	367	23	1079
Culver, John M. (See Hoyt, Lewis S., assignor.)						
Culver, John P., Tucson, Ariz. Ter. Water, gas, or drain pipe	271,687	Feb 6	123	34	23	461
Culver, Joseph E., Jersey City, N. J. Steam-generator	289,969	Dec. 11	766	216	25	1029
Culver, Lucius L., St. Louis, Mo. Range and stove	289,988	Dec. 11	765	215, 216	25	1029
Culver, Willard B., Pittston, Pa. Boiler-feed	280,721	July 3	458	131	24	82
Cumberland Hydraulic Cement and Manufacturing Company. (See De Smedt, Edward J., assignor.)						
Cumberbatch, Isaac, Newark, N. J. Damper-regulator	283,578	Aug. 21	1341	374	24	754
Cuming, Mari A., Brooklyn, N. Y. Revolving hat-blocking table	271,807	Feb. 6	266	74	23	487
Cummer Engine Company. (See Cummer, Franklin D., assignor.)						
Cummer, Franklin D., Detroit, Mich., assignor to Cummer Engine Company, Cleveland, Ohio. Steam-engine	281,843	July 24	1901	518, 519, 520	24	351
Cumming, James B., and B. F. Van Amringe, Oakland, Cal. Carpenter's bevel	278,405	May 29	2255	643	23	2060
Cumming, James P. (See McCarthy and Cumming.)						
Cummings, Albert G., Harrisburg, assignor to Pennsylvania Steel Company, Steelton, Pa. Interlocking apparatus	270,024	Jan. 2	233	68	23	46
Cummings, Albert G., Harrisburg, assignor to Pennsylvania Steel Company, Steelton, Pa. Deflection-stand for switch and signal connections	271,608	Feb. 6	30	8	23	446
Cummings, Albert G., Harrisburg, assignor to Pennsylvania Steel Company, Steelton, Pa. Apparatus for operating railway switches and signals	271,808	Feb. 6	267	74, 75	23	487
Cummings, Albert G., Harrisburg, assignor to Pennsylvania Steel Company, Steelton, Pa. Signal apparatus	272,122	Feb. 13	674	184	23	568
Cummings, Albert G., Harrisburg, assignor to Pennsylvania Steel Company, Steelton, Pa. Safety appliance for railways	276,564	May 1	26	7	23	1631
Cummings, Albert G., Harrisburg, assignor to Pennsylvania Steel Company, Steelton, Pa. Apparatus for operating railway-signals	277,118	May 8	768	202	23	1763
Cummings, Allan, New York, N. Y. Ventilating-damper for stove pipes and flues	274,567	Mar. 27	1724	479	23	1153
Cummings, Charles, Virginia City, assignor of one-half to E. F. Verrill and A. Fraser, Reno, Nev. Electric signaling apparatus	275,600	Apr. 10	955	259, 260	23	1398
Cummings, Charles C. (See Birch, John S., assignor.)						
Cummings, Curtis S., and C. A. Shank, Gloversville, N. Y.; said Shank assignor to said Cummings. Manufacture of paper or pasteboard	279,350	June 12	926	.....	23	2290
Cummings, Eustace, Woburn, Mass. Leather-splitting machine	288,551	Nov. 13	958	263, 264	25	682
Cummings, George W., Cohoes, N. Y. Burr for knitting-machines and means for supporting the same	284,283	Sept. 4	155	43	24	930
Cummings, H. J. B., *et al.* (See Schwaner, Christian C., assignor.)						
Cummings, John, Jr. (See Dodge and Cummings.)						
Cummings, Robert F. (See Barrows and Cummings.)						
Cummings, Uriah, Buffalo, N. Y. Furnace	289,990	Dec. 11	772	217	25	1029
Cummins, John E., Arlington, Ky. Grain-cleaner	274,468	Mar. 27	1580	434	23	1130
Cummiskey, Michael N., Paterson, N. J. Valve-gear	270,395	Jan. 9	638	204	23	144
Cummiskey, Michael N., Paterson, N. J. Cut-off valve	270,396	Jan. 9	639	204	23	144
Cundy, William H., Boston, Mass. Clarionet-case	270,640	Jan. 16	1005	290	23	213
Cunningham, Albert, assignor to J. M. Stowell, Milwaukee, Wis. Steam feed-works for saw-mills	274,568	Mar. 27	1725	479	23	1153
Cunningham, Andrew, Troy, and H. Bickford, assignors to Bickford & Huffman, Macedon, N. Y. Fertilizer-distributer	286,910	Oct. 16	1425	391, 392	25	271
Cunningham, Fieldon B., assignor of one-half to C. O. Brown, Burlington, Kans. Car-coupling	288,928	Nov. 20	1422	392	25	772
Cunningham, Herman E., *et al.* (See Stamour, John B., assignor.)						
Cunningham, James H., and N. M. Dickerson, Cross Timbers, Mo. Fence	286,182	Oct. 9	495	137	25	102
Cunningham, John. (See Burling, Benjamin H., assignor.)						
Cunningham, John E. (See Cobbett and Cunningham.)						
Cunningham, John M., assignor of one-third to T. Blanchard, Flora, Ill. Fire-escape	290,177	Dec. 11	986	278	25	1069
Cunningham, Peter B., assignor of one-half to A. Barnes, Allentown, Pa. Platform-gear for vehicles	277,834	May 15	1610	440	23	1916
Cunningham, Robert S., London, C. V. Houssart, 72 Lichfield Road, Bow, county of Middlesex, and W. May, 20 Broughton Street, Battersea, county of Surrey, England. Tramway	275,808	Apr. 17	1237	340	23	1453

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Cunningham, Seymour, Troy, N. Y. Metal lawn-tennis net	277,551	May 15	1287	346	23	1858
Cunningham, Thomas, *et al.* (See Stamour, John B., assignor.)						
Cunningham, W. P., *et al.* (See Duncan and Evens, assignors.)						
Cunningham, William J., Philadelphia, Pa. Carbonating apparatus	290,749	Dec. 25	1763	486	25	1219
Cupit, Alfred, Philadelphia, Pa. Clock-winding device	273,471	Mar. 6	299	81	23	884
Curl, Reuben O., *et al.* (See Reynolds, David R., assignor.)						
Curley, Terence F., Brooklyn, N. Y. Fork-guard	275,155	Apr. 3	359	98	23	1288
Curley, Thomas. (See Mansfield, Eben B., assignor.)						
Curpen, Ferdinand A., Upper Sandusky, Ohio. Hair-spring protector for watches	273,034	Feb. 27	1842	515	23	784
Curran, Charles A., Albany, Oreg. Fruit-pitter	276,365	Apr. 24	1923	533	23	1580
Curran, Charles A., Albany, Oreg. Fruit-drier	278,890	June 5	293	84, 85	23	2173
Curran, John J., Chicago, Ill. Lumber-drier	274,282	Mar. 20	1333	368	23	1079
Curriden, Samuel W. (See Baker, Edgar, assignor.)						
Currier, Alfred. (See Klaiber and Currier.)						
Currier, Frank T. (See Currier, Timothy J. and F. T.)						
Currier, Jacob B., Lowell, Mass., assignor to Currier Telephone Bell Company, of Massachusetts. Electric call	272,862	Feb. 27	1631	457	23	748
Currier, Jacob B., and D. H. Rice, Lowell, Mass. Electric call	276,960	May 1	559	146	23	1722
Currier, Timothy J. and F. T., Worcester, Mass. Drilling-machine	287,366	Oct. 23	2006	546	25	383
Currier Telephone Bell Company. (See Currier, Jacob B., assignor.)						
Currier, Walter W., Haverhill, Mass. Leather-skiving machine	281,979	July 24	2067	566	24	379
Curry, B. J. (See Hobbs, James W., assignor.)						
Curry, Burwell J., Huntsville, Ala. Machine for gathering cotton	273,035	Feb. 27	1842	515	23	784
Curry, Burwell J., Huntsville, Ala. Cotton chopper and cultivator	284,389	Sept. 4	283	79	24	959
Curry, Joseph E., Lawrence, Kans. Wind-gage for thrashing and cleaning machines	276,781	May 1	327	85	23	1682
Curry, Joseph P., assignor of one-half to W. Tomlinson, Vincennes, Ind. Carpet-stretcher	286,788	Oct. 16	1268	343	25	245
Curtice, Grovenor A., Hopkinton, N. H. Mixture for preserving eggs	274,283	Mar. 20	1335	.....	23	1079
Curtice, John M., Lowell, Mass. Bobbin-holder for spooling-machines	278,406	May 29	2356	644	23	2060
Curtin, David, Jamestown, Dak. Ter. Lantern	270,397	Jan. 9	690	204	23	144
Curtin, John, Marion, Va. Hub-attaching device	278,513	May 29	2489	680	23	2084
Curtis, Albert B. (See Curtis, Francis and A. B.)						
Curtis, Alice A., Byron Centre, Mich. Baking-dish cover	287,635	Oct. 30	2366	638	25	459
Curtis, Andrew J., Monroe, Me. Button-hole cutter and tracer	278,103	May 22	1936	531	23	1979
Curtis, Benjamin S., and J. A. Cook, Cape May, N. J. Portable elevated railway	285,116	Sept. 18	1185	332	24	1121
Curtis, Charles. (See Wallace and Gritlin, assignors.)						
Curtis, Charles A., Kirtland, Ohio. Thill-coupling bolt	270,935	Jan. 23	1370	395	23	286
Curtis, Charles C., and H. G. Lewis, North Lansing, Mich. Toy gun	287,507	Oct. 30	2184	593	25	424
Curtis, Charles G. (See Crocker, Curtis, and Wheeler.)						
Curtis, Charles G (See Dickerson and Curtis.)						
Curtis, Charles G. (See Wheeler, Curtis, and Crocker.)						
Curtis, Charles G., and F. B. Crocker, New York, N. Y. Electric locomotive	271,042	Jan. 23	1498	433	23	306
Curtis, Charles P., *et al* (See Harris, Charles A., assignor.)						
Curtis & Co., William B. (See Curtiss, William B., assignor.)						
Curtis, Dexter. (See Lynch, Matthew W., assignor.)						
Curtis, Dudley W., assignor of one-half to S. Davis, Pomeroy, Ohio. Ice-cream freezer	289,336	Nov. 27	1924	535	25	871
Curtis, Francis. (See Russell and Curtis.)						
Curtis, Francis. (See Russell and Curtis.) (Reissue.)						
Curtis, Francis and A. B., Chicopee, Mass. Metal-screw machine	280,296	June 26	2064	580 581	23	2500
Curtis, George H. (See Gifford, George S., assignor.)						
Curtis, George S., assignor of one-half to S. D. Kimbark, Chicago, Ill. Metallic fence-post	278,779	June 5	143	42	23	2146
Curtis, Isaac R., Newark, N. J. Attachment for pants	289,694	Dec. 11	655	183	25	1008
Curtis, Israel B. (See Hutchins, William J., assignor.)						
Curtis, Israel B., Joliet, Ill. Anchor for check-row cords	273,263	Mar. 6	23	8	23	838
Curtis, James A. (See Renick and Curtis.)						
Curtis, John D., Worcester, Mass. Fencing-clasp	284,390	Sept. 4	284	79	24	952
Curtis, John S. (See Curtis, Wallace B. and J. S.)						
Curtis, Leonard E. (See Weston and Curtis.)						
Curtis, Martin M., assignor of one-half to C. E. Seely, St. Cloud, Minn. Hedge-trimmer	289,074	Nov. 27	1611	446	25	812
Curtis, Paul A., New York, N. Y. Metallic seal	271,224	Jan. 30	1725	500	23	352
Curtis, Roderick P. (See Forbes, William D., assignor.)						
Curtis, Wallace B. and J. S., Pomeroy, Ohio. Corn-planter	283,213	Aug. 14	885	247	24	665
Curtis, William E., Cincinnati, Ohio. Carriage-curtain fastener	289,991	Dec. 11	773	217	25	1029
Curtis, William R., assignor to Sigwalt Sewing Machine Company, Chicago, Ill. Sewing-machine stand	285,019	Sept. 18	1068	298	24	1101
Curtiss, Ammi H. (See Rockfellow, Andrews, assignor.)						
Curtiss, Enos, Findlay, Ohio. Journal-box attachment	270,757	Jan. 16	1157	331	23	241
Curtiss, Samuel, Brooklyn, N. Y. Strip for repelling and destroying vermin	274,284	Mar. 20	1336	368	23	1079
Curtiss, William B., Danbury, Conn. Wire frame for hat-brims	288,313	Nov. 13	647	177	25	628
Curtiss, William B., assignor to W. B. Curtis & Co., Danbury, Conn. Machine for bending and forming wire	283,327	Aug. 14	1025	287 288 289	24	691
Curtiss, Marshall S., Pullman, Ill. Reclining-chair	280,356	July 3	21	6	24	6
Cushman, Henry S., Milford, Mass. Nail	280,801	July 10	582	162	24	109
Cushman, Henry S., assignor of one-half to H. S. Bacon, Milford, Mass. Boot or shoe	279,859	June 19	1536	429	23	2400
Cushman, Horatio L. (See Pierce, Zenas B., assignor.)						
Cuskley, Philip L., Portland, Me. Envelope	279,543	June 19	1170	324	23	2336
Cussons, John, Glen Allen, Va. Calendar	277,411	May 8	1106	297	23	1823
Custer, George, Lima, Ohio. Caster	270,758	Jan. 16	1158	331	23	241
Cuthbertson, James W., Bothwell, Ontario, Canada. Metallic coal-oil barrel	284,950	Sept. 11	970	272	24	1077
Cutlan, Frederick, Leicester, county of Leicester, England. Heel-paring machine	274,109	Mar. 20	1113	307	23	1040
Cutler, Abner, assignor to A. Cutler & Son, Buffalo, N. Y. Inkstand	283,467	Aug. 21	1209	340	24	730
Cutler, Abner, assignor to A. Cutler & Son, Buffalo, N. Y. Drawer-clamp	283,468	Aug. 21	1210	340	24	730
Cutler, Clarence B., Schodack, N. Y. Car-coupling	274,569	Mar. 27	1727	480	23	1153
Cutler, Clarence B., Schodack, N. Y. Hot-air furnace	280,455	July 3	147	39, 40	24	28
Cutler, Henry, North Wilbraham, Mass. Grain drying and cooling shelf	277,686	May 15	1442	389	23	1885
Cutler, Henry, North Wilbraham, Mass. Vertical-disk grinding-mill	283,328	Aug. 14	1032	290	24	692
Cutler, Horace D., Glenwood, Mo. Fire-escape	283,702	Aug. 21	1481	417	24	762
Cutler, James G., Rochester, N. Y. Letter-box connection	284,951	Sept. 11	971	273	24	1077
Cutler & Son, A. (See Cutler, Abner, assignor.)						
Cutler, Thomas O., Jersey City, N. J. Machine for grinding minerals, &c	278,407	May 29	2358	644	23	2060
Cutler, Thomas O., Jersey City, N. J. Grinding-mill	281,030	July 10	655	237	24	158
Cutten, James H., Boston, Mass., assignor to National Waterproof Shoe Company, Portland, Me. Attachment for boot and shoe sewing machines	275,365	Apr. 10	654	175	23	1346

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Cutter, Francis L., Brooklyn, N. Y. Card and sample holder	275,601	Apr. 10	958	260	23	1398
Cutter, Norman W. (See Worswick and Cutter.)						
Cutter, William P., assignor of one-half to M. B. Hinds, Everett, Mass. Hatchet	274,085	Mar. 13	1076	297	23	1026
Cutter, William T., Hastings-upon-Hudson, N. Y., assignor to International Pavement Company, of Connecticut. Paving-block	283,329	Aug. 14	1033	.....	24	692
Cutting, Leonard M. (See Stelle and Cutting.)						
Cutting, Robert S., Providence, R. I., and H. A. Spencer, New York, N. Y. Pen-holder	285,578	Sept. 25	1728	489	24	1225
Cuyle, Nathan J., Oswego, N. Y. Excavator and wrecker combined	281,844	July 24	1906	520, 521	24	351
Cwerdinski, Alphonse T., St. Louis, Mo. Pencil-holder	289,392	Dec. 4	24	8	25	891
Cypert, Jessee B., Waynesborough, Tenn. Tire-tightener	274,179	Mar. 20	1201	330	23	1056
Cyphers, Paul. (See Johannes and Cyphers.)						
Cyr, Oliver, assignor of one-half to W. L. Charon, Haverhill, Mass. Heel-burnishing machine	283,381	Aug. 21	1108	313	24	712
Da Cunha, George W., Montclair, N. J. Projecting corner-piece for plastered walls	290,750	Dec. 25	1764	487	25	1219
Dable, John, Chicago, Ill. Apparatus for coating lamp-shades with silver	287,636	Oct. 30	2366	638	25	459
Daft, Leo, Greenville, N. J. Electric-arc lamp	276,565	May 1	28	7	23	1632
Daft, Leo, Greenville, N. J. Electric-arc lamp	276,566	May 1	29	8	23	1632
Daft, Leo, Greenville, N. J. Electric-arc lamp	276,567	May 1	30	8	23	1632
Daft, Leo, Greenville, N. J. Armature for dynamo-electric machines	276,568	May 1	31	8	23	1632
Daft, Leo, Greenville, N. J. Electric railway	276,569	May 1	32	9	23	1633
Daft, Leo, Greenville, N. J. Armature for dynamo-electric machines	277,119	May 8	769	202	23	1768
Daft, Leo, Greenville, N. J. Electric locomotive	283,759	Aug. 28	1567	442	24	809
Daft, Leo, Greenville, N. J. Rail for electric railways	283,760	Aug. 28	1568	443	24	809
Daft, Leo, Greenville, N. J. Electric locomotive	283,761	Aug. 28	1568	443	24	809
Daft, Leo, Greenville, N. J. Electric locomotive-engine	289,895	Dec. 11	656	183	25	1008
Daft, Leo, Greenville, N. J. Electro-magnetic brake	289,896	Dec. 11	657	183	25	1008
Daft, Leo, Greenville, N. J. Conductor for electric railways	289,897	Dec. 11	658	184	25	1008
Dagger, Madison, Newtown, Ind. Fence	275,891	Apr. 17	1336	368	23	1471
Daggett, Christopher, London, England. Button and fastener	272,123	Feb. 13	676	184	23	569
Daggett, Homer M., Jr., Attleborough, Mass. Jewelry	279,351	June 12	927	258	23	2290
Daggett, John C., assignor to Colburn, Fuller & Co., Boston, Mass. Shoe	289,812	Dec. 11	550	154	25	989
Dahlman, Charles. (See Dahlman, Isaac H. and C.)						
Dahlman, Isaac H. and C., New York, N. Y. Stock-car	282,706	Aug. 7	291	82	24	550
Daigneau, Jeremiah, St. Hyacinthe, Quebec, Canada. Bark-cutter	278,686	June 5	13	4	23	2127
Dailey, George J. (See Marin, Charles, assignor.)						
Daily, Josiah, Madison, Ind. Flavoring-extract for sirup and sugar. (Reissue)	10,285	Feb. 13	1019	.....	23	628
Dain, Joseph, Jr., Kansas City, Mo. Horse hay-rake	288,314	Nov. 13	647	178	25	629
Dainard, Milton, West Exeter, N. Y. Machine-table	284,391	Sept. 4	285	79, 80	24	952
Daisley, Howard, assignor to Ray, Daisley & Co., Brooklyn, N. Y. Coal-oil stove	270,892	Jan. 23	1315	380	23	277
Daisy Sewing Machine Company. (See Tully, T. De Quincy, assignor.)						
Dalby, George S., North Scituate, Mass. Jack for holding boots and shoes	282,278	July 31	2456	676	24	449
Dale, John. (See Simar and Dale.)						
Dale, Lorenzo H. (See Blood, Hiram, assignor.)						
Dale, Oliver S., and A. Barnes, Michigan City, Ind. Car-coupling	276,005	Apr. 17	1464	404	23	1494
Dale, Samuel, Boonesborough, Iowa. Builder's scaffold or mortar-board	283,214	Aug. 14	886	247	24	665
Dale, Samuel, Boonesborough, Iowa. Hod-elevator	286,119	Oct. 2	416	114	25	77
Daley, Michael, Waterman, Ill. Horse hay-rake	290,864	Dec. 25	1896	523	25	1242
Dalie, John G., Springfield, Ohio. Screw-cutting tool	275,156	Apr. 3	360	99	23	1288
Dallas, William, *et al.* (See Swartout, William H., assignor.)						
Dalton, Clarence L., West Elkton, Ohio. Thill-coupling	286,911	Oct. 16	1427	392	25	272
Dalton, James T., Central Falls, R. I. Car-coupling	289,898	Dec. 11	659	184	25	1009
Dalton, Richard, Wilmette, Ill. Wagon	278,408	May 29	2359	645	23	2060
Daly, Michael J., New York, N. Y., assignor to J. G. Pennycuick, Boston, Mass. Lens for vault-lights	274,086	Mar. 13	1077	297	23	1026
Daly, Thomas J., San Francisco, Cal. Railway-switch	277,552	May 15	1288	346	23	1859
Daly, William H. (See Oram, George C., assignor.)						
Dalzell, J. Allan, New York, N. Y. Electric-arc lamp	274,916	Apr. 3	35	9	23	1232
Dalzell, James, Pittsburg, Pa. Manufacture of peg-lamps	274,917	Apr. 3	37	10	23	1232
Dalzell, John H., *et al.* (See Haskin, Uri, assignor.)						
Dame, Charles S., Lanark, Ill. Combined hay rake and loader	270,398	Jan. 9	691	204, 205	23	144
Damon, Isaac T., *et al.* (See Ellis, Joseph L., assignor.)						
Damon, John A. (See Ellis, Joseph L., assignor.)						
Damp, John, Ashland, Ohio. Machine for separating grain, meal, &c	282,707	Aug. 7	292	83, 83	24	550
Dana, Charles H., West Lebanon, N. H. Shepherd's crook	281,243	July 17	1132	311	24	213
Dana, Charles H., Jr., West Lebanon, N. H. Calendar	283,215	Aug. 14	887	247	24	665
Dancel, Christian, New York, N. Y. Machine for gaging and marking leather	276,782	May 1	327	85	23	1683
Dancel, Christian, New York, assignor to Harris Button Hole Company, (limited,) Brooklyn, N. Y. Machine for making leather button-hole linings	272,376	Feb. 13	979	273, 274	23	622
Danden, Louis. (See Chertemps and Danden.)						
Dane, Joseph C., and W. L. Card, La Crosse, Wis. Amalgamator	284,392	Sept. 4	286	80	24	952
Danforth, Simeon C. (See Van Trump, Daniel, assignor.)						
Danforth, Simeon C., Watson, Mo. Washing-machine	288,552	Nov. 13	960	264	25	683
Dangler, D. A. (See Kells and Adams, assignors.)						
Dangler, David A. (See Kells, Edward, assignor.)						
Daniel, Charles, Butler, Mo. Gate-hanger	286,912	Oct. 16	1428	392	25	272
Daniel, Ellison A., Bluff Mills, Tex. Combined chopper and cultivator	287,251	Oct. 23	1865	510	25	357
Daniel, John W., Augusta, Ky. Aging leaf-tobacco	269,832	Jan. 2	17	6	23	6
Daniels, Ebenezer B., East Point, Pa., and E. A. De Witt, Odessa, N. Y. Plow-sulky	280,015	June 26	1732	486	23	2441
Daniels, Fred H., Worcester, Mass. Rolling metal rods and bars	271,925	Jan. 30	1726	500	23	352
Daniels, Fred H., Worcester, Mass. Making wire rods	283,469	Aug. 21	1211	340	24	731
Daniels, Fred H., Worcester, Mass. Wire-rod rolling-mill	283,470	Aug. 21	1212	340, 341	24	731
Daniels, Fred H., Worcester, Mass. Continuous rolling-mill	287,008	Oct. 23	1551	427, 428	25	299
Daniels, Fred H., Worcester, Mass. Apparatus for reeling wire rods	290,216	Dec. 18	1046	294	25	1098
Daniels, George D., *et al.* (See Rumsey, Charles B., assignor.)						
Daniels, George W. (See Underwood and Daniels.)						
Daniels, Henry C., *et al.* (See Fickett, William S., assignor.)						
Daniels, J. Edward, Holbrook, Mass. Rein-holder	285,468	Sept. 25	1604	450	24	1201
Daniels, Thomas, Toledo, Ohio. Confectionery and pill coating and pill-rounding machine	278,780	June 5	143	42, 43	23	2147
Danlies, George E., Byron, Ill. Motor	280,297	June 26	2068	581, 582	23	2501

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Dann, Jesse W., Columbus, Ohio. Shaft-bending device	283,382	Aug. 21	1109	313	24	712
Dann, Marcus C., Minneapolis, Minn. Barrel-heater	288,213	Nov. 13	522	145	25	608
Dann, Marcus C., Minneapolis, Minn. Process of and apparatus for setting up double-stave barrels	289,393	Dec. 4	25	8	25	891
Danner, Abraham J., Botetourt Springs, Va. Nut-lock	274,285	Mar. 20	1339	368	23	1060
Danner, Frederick. (See Thomas, Cordesman, and Danner.)						
Danner, John, Canton, Ohio. Show-stand	274,087	Mar. 13	1078	297	23	1027
Danner, John, Canton, Ohio. Book-support	289,394	Dec. 4	26	9	25	892
Dannhauser, Louis. (See Loewenthal, Moses, assignor.)						
Dannhorn, Max, Nuremburg, Bavaria, Germany. Musical top	271,428	Jan. 30	1996	573	23	399
Danz, Jacob, Jr., St. Paul, Minn. Decoy	282,851	Aug. 7	451	127	24	580
Danziger, Adolph, New York, N. Y., assignor of one-half to F. Siebert, Hoboken, N. J. Composing-stick	279,352	June 12	927	259	23	2290
Danziger, Harris, New York, N. Y. Finger-ring	289,511	Dec. 4	178	49	25	917
D'Aragon, Joseph M. J. A. P., Tours, France. Car-ventilator	280,722	July 3	459	131 132	24	82
Darby, Thomas C., Pleshey Lodge, near Chelmsford, county of Essex, England. Digging-machine	276,783	May 1	329	86, 87	23	1683
Dark, Thomas, Buffalo, N. Y. Combined portable railway and working-car	280,802	July 10	582	162	24	109
Dark, Thomas, Buffalo, N. Y. Metal shield for tunnel-working	286,789	Oct. 16	1269	343	25	245
Darker, William. (See Veerkamp, Leopold, and Darker.)						
Darkin, Frank, New York, N. Y. Compound disk-engine	270,759	Jan. 16	1159	332	23	241
Darling, Edmund R., Woonsocket, R. I. Cartridge implement	272,215	Feb. 13	779	216	23	586
Darling, Edmund R., Woonsocket, R. I. Cartridge implement. (Reissue)	10,421	Dec. 11	1009	284	25	1073
Darling, Edwin A., Hartford, Conn. Surface-gage	275,892	Apr. 17	1337	368	23	1471
Darling, Henry M., and A. Kitzmiller, assignors to Queen City Sewing Machine Company, Cincinnati, Ohio. Sewing-machine	278,687	June 5	14	4	23	2127
Darling, Horace E., Brainerd, Minn. Cigar-holder	270,025	Jan. 2	235	68	23	48
Darling, James, Killingly, assignor to L. Briggs, Grosvernor Dale, Conn. Razor-strop	282,173	July 31	2333	643	24	427
Darling, James D., assignor of fifty-five one-hundredths to A. Sims, A. Pyle, W. Lindsay, and G. F. Betts, New York, N. Y. Producing alumina	285,579	Sept. 25	1729	.....	24	1225
Darling, John, Glasgow, county of Lanark, Scotland. Needle-threading device	275,157	Apr. 3	361	99	23	1289
Darling, John, and J. J. Long, Glasgow, Scotland. Match-box	283,579	Aug. 21	1342	374	24	755
Darling, Samuel, Providence, R. I. Micrometer	287,420	Oct. 30	2075	564	25	403
Darling, Samuel, Providence, R. I. Graduated measure of length	289,512	Dec. 4	178	49	25	917
Darling, Samuel, Providence, R. I. Micrometer-gage	289,513	Dec. 4	179	50	25	918
D'Arman, John A., Gadsden, Ala. Bedstead	284,617	Sept. 11	561	159	24	1005
Darr, Henry S. (See Mitchell, William F., assignor.)						
Darrach, Julia, Newark, N. J. Bouquet-holder	278,514	May 29	2489	680	23	2084
Darragh, Mattison and S. H., Bridgewater, Pa. Metal crucible	282,279	July 31	2457	676	24	449
Darragh, Scudder H. (See Darragh, Mattison and S. H.)						
Darrow, Charles, assignor of one-half to W. R. Boots, Marion, Ind. Drive-wheel	289,992	Dec. 11	774	217	25	1029
Darton, Nelson H., and D. D. Williamson, New York, N. Y. Bleaching, defecating, and preserving sugar, sirups, molasses, cane and beet-root juices, &c	278,104	May 22	1937	.....	23	1979
Daso, Levi, Pioneer, Ohio. Elevator	276,784	May 1	331	88	23	1683
Daso, Levi, Pioneer, Ohio. Elevator	276,785	May 1	333	88	23	1684
Dassau, Edward, Brooklyn, N. Y., assignor to W. M. Clarke, Newark, N. J. Combined stop and draw cock	270,399	Jan. 9	693	205	23	145
D'Aubigné, Bartolo L., Boston, Mass. Tubular rivet	275,158	Apr. 3	362	99	23	1289
Dauché, Charles, and P. Deniaud, La Ville en Bois, France. Machine for manufacturing metal boxes	281,980	July 24	2068	567	24	379
Dauchy, L. Otis. (See Ross, C. Hansen, assignor.)						
Dauchy, L. Otis. (See Ross, Christian H., assignor.)						
Dangler, David A. (See Billings, George W., assignor.)						
Davenport, Frank W., Providence, R. I. Puzzle or toy	277,120	May 8	770	203	23	1764
Davenport, Frank W., Providence, R. I. Ornamenting-tool	282,613	Aug. 7	165	50	24	599
Davenport, George W., Philadelphia, Pa. Wrench	279,722	June 19	1377	384	23	2372
Davenport, William H., Providence, R. I. Breech-loading gun	290,751	Dec. 25	1765	487	25	1219
Davey, John F., assignor to himself, M. J. Mahoney, and M. Burke, Jr., Marlborough, Mass. Device for tapping beer and other barrels	289,075	Nov. 27	1612	446	25	812
Davey, Martin R. (See Hancock, Albert R., assignor.)						
David, Henri. (See Suilliot and David.)						
David, Jacob, assignor of one-half to E. A. Deveau, Brooklyn, N. Y. Automatic car-brake	279,136	June 12	668	184	23	2248
David, Jacob, assignor of one-half to E. A. Deveau, Brooklyn, N. Y. Wantage or ullage rod	280,586	July 3	302	84	24	54
David, Jacob, Brooklyn, N. Y., assignor of one-half to E. A. Deveau. Hydrometer cup and thief	284,393	Sept. 4	288	80	24	952
David, Jacob, assignor of one-half to E. A. Deveau, Brooklyn, N. Y. Propeller for ships, &c	289,994	Dec. 11	776	218	25	1030
David, Marcus J., Rochester, N. Y. Bill-file	274,729	Mar. 27	1908	533	23	1187
David, Marcus J., Rochester, N. Y. Bill-file	275,602	Apr. 10	959	260	23	1399
Davids, Charles H. (See Carlock and Davids.)						
Davids, Charles H., Brooklyn, assignor to himself, D. F. and M. D. Davids, New Rochelle, N. Y. Machine for making stereotype-matrices	274,918	Apr. 3	38	10	23	1232
Davids, David F., *et al.* (See Davids, Charles H., assignor.)						
Davids, May D., *et al.* (See Davids, Charles H., assignor.)						
Davidson, Albert G. (See Short and Roe, assignors.)						
Davidson, George, assignor of two-thirds to D. Sheppard and A. Snow, Paris, Ontario, Canada. Trimming attachment for sewing-machines	284,394	Sept. 4	289	81	24	953
Davidson, Henry A., Buffalo, N. Y. Manufacture of linseed-oil	279,860	June 19	1537	429	23	2400
Davidson, James, Central City, Colo. Wrench	289,506	Dec. 4	169	46	25	916
Davidson, Salomon, New York, N. Y. Ornamental chain	282,280	July 31	2457	677	24	449
Davidson, William J., Big Spring, Va. Cultivator	282,852	Aug. 7	452	127	24	580
Davies, Edward, London, England. Apparatus for treating spent hops	288,553	Nov. 13	961	264 265	25	683
Davies, Evan, Cleveland, Ohio. Double-acting steam-pump	287,252	Oct. 23	1866	511	25	357
Davies, Evan T., Manistee, Mich. Device for supplying steam to the cylinders of steam-engines	274,286	Mar. 20	1339	369	23	1060
Davies, Henry J., Brooklyn, N. Y. Alarm-clock	270,400	Jan. 9	693	205	23	145
Davies, Robert H., Milwaukee, Wis., assignor of three-twentieths to L. Rees, Emporia, Kans., and S. J. Davis, Newark, Ohio. Distributing printing-type	283,762	Aug. 28	1569	444	24	809
Davies, Thomas A., New York, N. Y. Velocipede	276,786	May 1	334	88, 89	23	1684
Davies, Walter D., Brooklyn, N. Y. Repeating-clock	278,105	May 22	1938	532	23	1979
Davis, A. B., *et al.* (See Davis, Nathan H., assignor.)						
Davis, Addie, Rutland, Vt. Manufacture of tufted rugs	285,735	Sept. 25	1931	547	24	1261

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Davis, Adolphus, Montreal, Quebec, Canada. Sleeping-car berth	279,137	June 12	670	184	23	2248
Davis, Albert A., Lowell, Mass. Speeder	272,216	Feb. 13	779	216	23	587
Davis, Alexis B., St. Louis, Mo. Top-brace for buggies	286,272	Oct. 9	601	165	25	120
Davis, Alfred. (See Nelson and Davis.)						
Davis, Alva. (See Bayley, John C., assignor.)						
Davis, Arthur W., Elmira, N. Y. Clamp	286,688	Oct. 16	1146	308	25	223
Davis, Augustus, Franklin, Ind. Straw-stacker	278,891	June 5	294	85	23	2173
Davis, Augustus B. and N. H., assignors of one-third to L. C. Gratz, Philadelphia, Pa. Car-axle lubricator	280,587	July 3	303	84	24	54
Davis, Benjamin A., Chesterfield County, Va. Telegraph-pole	290,752	Dec. 25	1767	487	25	1290
Davis, Benjamin F., Dallas, Tex. Straining-beam	284,824	Sept. 11	820	228	24	1050
Davis, Charles A., Rochester, N. Y. Paper-file	281,466	July 17	1412	388	24	261
Davis, Charles H., assignor to D. F. Beatty, Washington, N. J. Swell for reed-organs	278,515	May 29	2490	680	23	2084
Davis, Clayton N., assignor to R. C. Davis and H. D. Northup, Fort Edward, N. Y. Shirt	274,919	Apr. 3	44	11	23	1233
Davis, Clayton N., assignor to R. C. Davis and H. D. Northup, Fort Edward, N. Y. Shirt	277,553	May 15	1290	346	23	1859
Davis, Daniel, Elmira, N. Y. Vise	271,316	Jan. 30	1840	534	23	372
Davis, Daniel L., Harveysburg, assignor of one-half to B. Butterworth, Cincinnati, Ohio. Cane-mill	273,472	Mar. 6	301	82	23	895
Davis, Daniel S., Van's Valley, Ohio. Corn-planter	281,981	July 24	2068	567	24	379
Davis, David. (See Morgan, Ruf, and Davis.)						
Davis, David W. (See Davis, Jordan G., E. P., and D. W.)						
Davis, David W., Detroit, Mich. Refrigerator-car	272,124	Feb. 13	677	184	23	569
Davis, Duane T. (See Woodward, T. Trask, assignor.)						
Davis, Eber P., Witcherville, Ark. Cultivator	275,159	Apr. 3	362	99	23	1249
Davis, Edward G., St. Louis, Mo. Slide-valve for compound engines	274,571	Mar. 27	1729	480	23	1154
Davis, Edward G., St. Louis, Mo. Slide-valve for compound engines	279,544	June 19	1170	324	23	2336
Davis, Edward O., Youngstown, Ohio. Hoof-cleaner	274,570	Mar. 27	1728	480	23	1153
Davis, Epaminondas P. (See Davis, Jordan G., E. P., and D. W.)						
Davis, Eugene H. (See Wilson, Thomas L., assignor.)						
Davis, Ferdinand E., Chicago, Ill., assignor to S. Oppenheimer, New York, N. Y. Machine for cleaning intestines	287,253	Oct. 23	1867	511	25	357
Davis, Francis G., Worcester, Mass. Two-wheeled vehicle	270,285	Jan. 9	543	160	23	116
Davis, Frank P., *et al.* (See Simpson, Andrew J., assignor.)						
Davis, Fredric C., Auburn, Ind. Damper	287,637	Oct. 30	2367	638	25	459
Davis, George, Ottawa, Minn. Curing cereals	284,284	Sept. 4	156	.....	24	931
Davis, George, Richmond, Va. Foot-power	288,778	Nov. 20	1245	342	25	739
Davis, George B. (See Kirkland, William P., assignor.)						
Davis, George R. (See McCarthy and Davis.)						
Davis, Gould & Co. (See Thomas, Francis, assignor.)						
Davis, Henry A., Lowell, Mass. Work-holding device	281,244	July 17	1133	312	24	214
Davis, Henry T., St. Louis, Mo. Quilting-frame	271,688	Feb. 6	124	34	23	461
Davis, Henry T., St. Louis, Mo. Quilting-frame for sewing-machines	271,689	Feb. 6	124	34	23	461
Davis, Henry T., St. Louis, Mo. Quilting attachment for sewing-machines	271,690	Feb. 6	125	35	23	461
Davis, Henry T., St. Louis, Mo., assignor to Davis Quilting Frame Company, New York, N. Y. Quilting attachment for sewing-machines	289,395	Dec. 4	27	9	25	892
Davis, Isaac B., Hartford, Conn. Direct-acting engine	282,503	Aug. 7	32	10	24	506
Davis, James B., Washington, D. C. Car-coupling	280,016	June 26	1734	486	23	2441
Davis, James I. (See Hawley and Davis.)						
Davis, James Q., Winnsborough, and N. O. Pyles, Coronoco, S. C. Blotter	290,668	Dec. 25	1645	453	25	1197
Davis, Jarvis E., Union, Oreg. Fire-escape	271,429	Jan. 30	1988	574	23	399
Davis, Jeffrey M., Youngstown, Ohio. Fire-escape	287,910	Nov. 6	150	44	25	534
Davis, John, New Bedford, Mass. Machine-wrench	289,396	Dec. 4	28	9	25	892
Davis, John H., assignor of one-half to H. Adams, Covington, Ky. Cast-jointed tool	271,043	Jan. 23	1502	433	23	306
Davis, John M. (See Folmer, John, assignor.)						
Davis, John M., and D. H. Brown, Lincoln, Va. Mechanical power	280,357	July 3	23	6	24	6
Davis, John O., Hartford, Conn. Pump-piston	272,662	Feb. 20	1361	382	23	693
Davis, John R., C. M. Wyrick, and S. Parker, Moundsville, W. Va. Composition for walls	288,694	Nov. 20	1142	.....	25	721
Davis, John S., Frankfort, Ky. Baling-press	285,237	Sept. 18	1327	374	24	1146
Davis, John S., Toledo, Ohio. Grain-carrier for harvesters	285,580	Sept. 25	1731	489 490	24	1295
Davis, John S., Toledo, assignor to Toledo Mower and Reaper Company, Lucas County, Ohio. Harvester	272,217	Feb. 13	780	216 217	23	587
Davis, John S., Toledo, assignor to Toledo Mower and Reaper Company, Lucas County, Ohio. Harvester	272,377	Feb. 13	982	275 276	23	623
Davis, John S., assignor to Toledo Mower and Reaper Company, Toledo, Ohio. Harvester	271,430	Jan. 30	1989	574 575	23	399
Davis John S., assignor to Toledo Mower and Reaper Company, Toledo, Ohio. Grain-binder	274,441	Mar. 20	1537	423 424	23	1114
Davis, John S., assignor to Toledo Mower and Reaper Company, Toledo, Ohio. Grain-binding harvester	275,330	Apr. 3	569	155 156 157 158	23	1322
Davis, John S., assignor to Toledo Mower and Reaper Company, Toledo, Ohio. Harvester-reel	277,996	May 22	1812	495	23	1957
Davis, John S., assignor to Toledo Mower and Reaper Company, Toledo, Ohio. Band-securing mechanism for grain-binders	279,082	June 5	573	158	23	2222
Davis, John S., assignor to Toledo Mower and Reaper Company, Toledo, Ohio. Band-securing mechanism for grain-binders	282,445	July 31	2676	734	24	488
Davis, John S., assignor to Toledo Mower and Reaper Company, Toledo, Ohio. Gaveling mechanism for grain-binders	283,866	Aug. 28	1687	476	24	829
Davis, John T., Rahway, N. J., and I. Stead, Philadelphia, Pa.; said Davis assignor to said Stead. Amalgamator	281,982	July 24	2070	567	24	379
Davis, John T., assignor to L. J. Pouvert, New York, N. Y. Refrigerating and ice machine	287,912	Nov. 6	153	45	25	535
Davis, Jordan G., E. P., and D. W., Mount Calm, Tex. Washing compound	278,409	May 29	2360	.....	23	2061
Davis, Joseph, Brooklyn, N. Y. Bottle-case	281,845	July 24	1908	521	24	351
Davis Joseph, Brooklyn, N. Y., assignor to Davis Oil Company, of New York. Refining fat-oils	273,036	Feb. 27	1844	.....	23	784
Davis, Joseph W., Port Jefferson, N. Y. Road-scraper	285,581	Sept. 25	1735	490	24	1226
Davis, Joshua E. (See Fisher, Edward F., assignor.)						
Davis, Leonard L., Springfield, Mass. Spirit level and plumb	288,624	Nov. 20	1053	290	25	706
Davis, Levi, Jr., Alton, Ill. Car-coupling	271,609	Feb. 6	32	8	23	446
Davis, Levi, Jr., Alton, Ill. Car-coupling	277,466	May 15	1182	317	23	1843
Davis, Lewellyn D, Salt Lake City, Utah Ter. Hoisting-car	290,404	Dec. 18	1281	360	25	1129
Davis, Lewis, Jackson, Ohio. Saw-clamp	275,603	Apr. 10	960	260	23	1399

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Davis, Marks C., Indianapolis, Ind. Device for adjusting clock-pendulums	278,781	June 5	145	43	23	2147
Davis, Michael F., Portland, Me. Row-boat	282,853	Aug. 7	452	128	24	580
Davis, Michael F., Portland, Me. Rowlock	282,854	Aug. 7	454	128, 129	24	580
Davis, Michael F., Portland, Me. Row-boat seat	282,855	Aug. 7	456	129	24	581
Davis, Michael F., Portland, Me. Oar	282,856	Aug. 7	457	130	24	581
Davis, Milton G. (See Wilson and Davis.)						
Davis, Moses M. (See Fitch, Lauren M., assignor.)						
Davis, Nathan H. (See Davis, Augustus B. and N. H.)						
Davis, Nathan H., assignor of two-thirds to A. B. Davis and L. C. Gratz, Philadelphia, Pa. Car-axle box	273,473	Mar. 6	302	82	23	885
Davis, Nathan H., assignor of one-third to L. C. Gratz, Philadelphia, Pa. Car-spring	287,638	Oct. 30	2368	639	25	459
Davis, Nathan H., assignor of one-third to L. C. Gratz, Philadelphia, Pa. Car-spring	287,639	Oct. 30	2369	639	25	459
Davis, Nathan H., assignor of one-third to L. C. Gratz, Philadelphia, Pa. Car-spring	287,640	Oct. 30	2369	639	25	460
Davis, Nicholas H., Brooklyn, N. Y. Clutch and reversible pawl for sewing-machines, &c.	270,893	Jan. 23	1317	380	23	277
Davis Oil Company. (See Davis, Joseph, assignor.)						
Davis, Oscar. (See Phipps, Azor J., assignor.)						
Davis, Philip Z. (See Barton and Davis.)						
Davis Quilting Frame Company. (See Davis, Henry T., assignor.)						
Davis, Rees O., Milan, Mo. Hay-ricking device	276,673	May 1	176	45	23	1654
Davis, Robert W., assignor to Carbonate Mining Company, Elmira, N. Y. Commercial putty	271,973	Feb. 6	471	.....	23	523
Davis, Robert W., assignor to Davis Wrench Company, Elmira, N. Y. Wrench	286,913	Oct. 16	1429	393	25	272
Davis, Russell C., *et al.* (See Davis, Clayton N., assignor.)						
Davis, Samuel. (See Curtis, Dudley W., assignor.)						
Davis, Samuel. (See Wilson, Thomas L., assignor.)						
Davis, Samuel J., *et al.* (See Davies, Robert H., assignor.)						
Davis Sewing Machine Company. (See Carlisle, William S., assignor.)						
Davis Sewing Machine Company. (See Fellows, Edgar D., assignor.)						
Davis, Stephen A., and R. Blake, Newark, N. J., assignors to Superior Drive Screw Company, New York, N. Y. Machine for swaging screw-threads	279,353	June 12	928	259, 260	23	2290
Davis, Stephen A., and R. Blake, Newark, N. J. Screw-swaging machine	280,723	July 3	461	132	24	82
Davis, Thomas E. (See Martin, Watts, assignor.)						
Davis, Webster, Atlanta, Ga. Apparatus for packing and transporting melons	287,106	Oct. 23	1692	461	25	325
Davis, Webster, Atlanta, Ga. Packing and transporting melons	289,993	Dec. 11	775	218	25	1030
Davis, Wilbur H., Lynn, Mass., and A. A. Hawley, Baltimore, Md., assignors to Merino Shoe Company, Boston, Mass. Stocking, sock, and slipper	287,807	Nov. 6	21	7	25	511
Davis, Wilbur H., Lynn, and A. A. Hawley, Merrimac, assignors to Merino Shoe Company, Boston, Mass. Felted woolen sock or stocking	287,808	Nov. 6	21	7	25	511
Davis, William E., Meadville, Pa. Pillow-sham holder and mosquito-bar	270,578	Jan. 16	926	268	23	198
Davis, William E., Jersey City, N. J. Telegraph-sounder	273,264	Mar. 6	24	8	23	838
Davis, William H., Verona, Miss. Driving machinery for cotton-gins, mills, &c	277,240	May 8	912	244	23	1789
Davis, William J. (See Callahan, Amos, assignor.)						
Davis, William J., *et al.* (See Harvey, John, assignor.)						
Davis, William P., North Bloomfield, N. Y. Key-seat-cutting machine	274,287	Mar. 20	1340	369	23	1060
Davis, William T., Battle Creek, Mich. Three-barreled gun	278,688	June 5	17	5	23	2127
Davis, Willshire M., Remington, Ind. Bed-spring	277,121	May 8	771	203	23	1764
Davis Wrench Company. (See Davis, Robert W., assignor.)						
Davis, Zebulon, Canton, Ohio. Vapor-burner	269,833	Jan. 2	18	6	23	6
Davis, Zebulon, Canton, Ohio. Vapor-burner	269,834	Jan. 2	19	6	23	6
Davis, Zebulon, Canton, Ohio. Vapor-burner	287,911	Nov. 6	151	44	25	534
Davis, Zebulon, Canton, assignor to G. E. Herrick, Cleveland, Ohio. Vapor-stove. (Reissue)	10,355	July 10	1103	304	24	202
Davison, Charles E., London, England. Car brake and starter	270,286	Jan. 9	544	160, 161	23	116
Davison, Christopher S., *et al.* (See Miller, David W., assignor.)						
Davison, Henry J. (See Harrison, John F., assignor.)						
Davison, William. (See Arthur, Spaulding, and Davison.)						
Davisson, George W., St. Louis, Mo. Smoke-consuming furnace	288,554	Nov. 13	962	265	25	683
Davisson, William J., Farmland, assignor of one-half to J. A. Botkin, Swain's Hill, Ind. Machine for making wire fabrics	289,507	Dec. 4	170	46, 47, 48	25	916
Davol, Joseph. (See Turner, William A., assignor.)						
Davy, Peter B., *et al.* (See Howland, George H., assignor.)						
Daw, George O., New York, N. Y. Mechanism for raising lines to the upper parts of buildings	283,580	Aug. 21	1343	375	24	755
Dawson, Artemas L., assignor of one-half to C. H. Freeman, Elk Point, Dak. Ter. Fish-hook	289,508	Dec. 4	172	48	25	916
Dawson, Artemas L., assignor of one-half to C. H Freeman, Elk Point, Dak. Ter. Machine for attaching metal collars to lamps	289,509	Dec. 4	174	48, 49	25	916
Dawson, Artemas L., assignor of one-half to C. H. Freeman, Elk Point, Dak. Ter. Lamp.	289,510	Dec. 4	177	49	25	917
Dawson, Edward. (See Read and Dawson.)						
Dawson, Edward, Auburn, Ill., assignor to J. W. Penfield, Willoughby, Ohio. Brick-fork	276,366	Apr. 24	1924	533	23	1580
Dawson, Eugene C., Maquoketa, Iowa. Snow-plow	281,031	July 10	856	238	24	158
Dawson, Ezekiel W., Smyrna, Del. Hedge-trimming machine	290,865	Dec. 25	1898	524	25	1943
Dawson, George, Cardington, Ohio. Overalls	278,106	May 22	1939	532	23	1979
Dawson, James. (See Rowe, Holmes, and Dawson.)						
Dawson, James, San Francisco, Cal. Lifting-jack	278,317	May 29	2237	613	23	2039
Dawson, John B. (See Smith, John T., assignor.)						
Dawson, William M., and R. A. Simpson, Belvidere, Ill. Whiffletree-plate	281,032	July 10	857	238	24	159
Dawson, William M., R. A. Simpson, and L. S. Longcor, Belvidere, Ill. Billiard-table leveler	287,913	Nov. 6	155	45	25	535
Day, George W., Haverhill, Mass. Manufacture of boots and shoes	284,188	Sept. 4	36	9	24	911
Day, George W., Haverhill, Mass. Machine for flattening and smoothing channel-flaps	286,790	Oct. 16	1270	344	25	245
Day, Jennie W. (See Slocomb and Day.)						
Day, John, Brooklyn, N. Y. Curtain-pin	275,160	Apr. 3	363	100	23	1280
Day, John, Brooklyn, N. Y. Support for cornice-poles	278,892	June 5	295	85	23	2174
Day, John B., and T. J. Gregory, Cornell, Ill. Cultivator	285,469	Sept. 25	1605	451	24	1202
Day, John Q., Red Cliff, Colo. Railway snow-plow	282,281	July 31	2458	677	24	449
Day, Reason. (See Day, Samuel and R.)						
Day, Robert E. (See Lord and Day.)						
Day, Samuel and R., Delavan, Ill. Cultivator	274,920	Apr. 3	44	11	23	1232
Day, Samuel and R., Delavan, Ill. Vehicle-wheel	284,724	Sept. 11	701	196	24	1029
Day, Thomas, Boston, Mass. Roller-skate	279,138	June 12	671	184	23	2248

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'gs.	Vol.	Page.
Day, Thomas, assignor of one-half to E. Brimhall, Chicago Ill. Galley-rest	270,207	Jan. 9	451	132	23	99
Day, Thomas H., San Francisco, Cal. Machine for making ice and producing cold	285,879	Oct. 2	127	36	25	25
Day, Willard G., Baltimore, Md. Thermostat	277,241	May 8	912	244	23	1789
Dayton, Aaron O., Williamsport, Pa. Seal-lock	275,026	Apr. 3	193	51	23	1258
Dayton, Charles L., Meriden, Conn. Mitering-machine	270,026	Jan. 2	236	68	23	49
Dayton, William M., assignor to himself and W. S. Bemis, Waupaca, Wis. Railway-rail. D'Ewart, W. John. (See Hall, Whitcomb, and D'Ewart.)	289,628	Dec. 4	315	88	25	943
De Abreu, Manuel T., St. Helena, Cal. Apparatus for maturing sherry-wine	277,554	May 15	1291	346, 347	23	1859
De Barbeyrac, Marie G. (See Roussan and De Barbeyrac.)						
De Beaumont, Alexandre, assignor of one-half to S. Sherburne, Philadelphia, Pa. Device for ripping the seams of garments	288,031	Nov. 6	305	86	25	559
De Bevoise, Abram. (See Lumbye and De Bevoise.)						
De Bevoise, Alfred. (See Bonn and De Bevoise.)						
De Bolt, Washington. (See Sawyer, James, assignor.)						
De Bondini, Cher P., Constantinople, Turkey. Oven	281,620	July 17	1605	439	24	292
De Bow, Charles E., Albion, Mich. Laryngoscope	281,033	July 10	857	238	24	159
De Castro, Hector, New York, N. Y., assignor to J. W. Mackay, Virginia City, Nev. Manufacture of soap	288,412	Nov. 13	793	215	25	654
De Castro, Jules. (See Bang and De Castro.)						
De Caunes, Armand, Orpillières, France. Pruning-shears	289,995	Dec. 11	777	218	25	1030
De Cew, William, Buffalo, N. Y. Car-coupling	274,180	Mar. 20	1202	331	23	1056
De Chaligny, Frédéric S. (See Chaine, Durand, and De Chaligny.)						
De Clercq, Augustus M. (See Shone, George, assignor.)						
De Codezo, Thomas, New York, N. Y. Combined eye-rest and screen for photographers	270,401	Jan. 9	695	205	23	145
De Courtenay, Henry W., Boston, Mass. Shoe-calk	285,582	Sept. 25	1736	490	24	1226
De Courtenay, Henry W., Boston, Mass. Miter-box and jack-board	285,583	Sept. 25	1737	490	24	1227
De Ferranti, Sebastian Z., Richmond Gardens, Shepherd's Bush, and A. Thompson, Guildford Place, Russell Square, county of Middlesex, England. Dynamo-electric machine	292,446	July 31	2682	735	24	488
De Ferranti, Sebastian Z., Richmond Gardens, Shepherd's Bush, and A. Thompson, Guildford Place, Russell Square, county of Middlesex, England. Apparatus for measuring electric currents	292,447	July 31	2684	736	24	488
De Ferranti, Sebastian Z., Richmond Gardens, Shepherds Bush, and A. Thompson, Guildford Place, Russell Square, county of Middlesex, England. Apparatus for regulating electric currents	288,315	Nov. 13	648	178, 179	25	629
De Ferranti, Sebastian Z., Richmond Gardens, Shepherds Bush, and A. Thompson, Guildford Place, Russell Square, county of Middlesex, England. Dynamo-electric machine	288,316	Nov. 13	651	179, 180, 181	25	629
De Forest, David W., Brooklyn, assignor to De Forest Manufacturing Company, New York, N. Y. Press	270,936	Jan. 23	1371	396	23	286
De Forest Manufacturing Company. (See De Forest, David W., assignor.)						
De Forest, O. Lansing, Janesville, Wis. Road	282,283	July 31	2460	677	24	450
De Funiak, F., *et al.* (See Le Grande, William W., assignor.)						
De Gaetano, Stephen, New York, N. Y., assignor, by mesne assignments, to United States Standard Billiard Table Company, of New York. Billiard-cushion. (Reissue)	10,322	May 8	1142	307	23	1229
De Garis, John J., and T. L. Paine, Milwaukee, Wis. Bill-journal	289,514	Dec. 4	180	50	25	918
De Good, Alexander K., Millsborough, Pa. Washing-machine	271,317	Jan. 30	1841	535	23	372
De Groff, William E., Philadelphia, Pa. Necktie-retainer	288,695	Nov. 20	1143	314	25	721
De Kay, William H., Parksville, N. Y. Axle-lubricator	279,355	June 12	930	260	23	2291
De La Bar, George. (See Fletter, Henry, assignor.)						
De La Granja, E., *et al.* (See Chase, Milton, assignor.)						
De La Vergne, John C., and W. M. Mixer, assignors to De La Vergne & Mixer Refrigerating Company, New York, N. Y. Apparatus for condensing gases or vapors	275,367	Apr. 10	655	175	23	1346
De La Vergne & Mixer Refrigerating Company. (See De La Vergne and Mixer, assignors.)						
De Lalande, Felix, Paris, France, and G. Chaperon, Mines d'Alosno, Spain. Galvanic battery	274,110	Mar. 20	1114	308	23	1040
De Lamater, J. B. (See Stilson, Edward B., assignor.)						
De Lamater, William, assignor of two-thirds to A. Erwin, Burlingame, and W. C. Edwards, Topeka, Kans. Explosion-protector for safes	289,920	Jan. 2	113	33	23	23
De Lancey, John J., Binghamton, N. Y. Balanced slide-valve	284,395	Sept. 4	291	81	24	953
De Laski, Albert, and E. Shaw, Lynn, Mass., assignors to said Shaw, trustee. Hat-ironing machine	273,670	Mar. 6	550	146, 147	23	928
De Laval, Gustaf, Stockholm, Sweden. Reducing friction of vessels in water	280,013	July 10	707	199	24	131
De Laval, Gustaf, Stockholm, Sweden. Turbine for steam and other motive power	285,584	Sept. 25	1738	491	24	1227
De Luze, Louis P., New Rochelle, N. Y., assignor of one-half to G. W. Hunt, Philadelphia, Pa. Device for catching insects	289,997	Dec. 11	779	219	25	1030
De Meza, Wilson, assignor to Donaldson Brothers, New York, N. Y. Advertising device	272,533	Feb. 20	1197	334	23	664
De Mézervillo, Camille, Santa Clara, Cal. Motor	289,899	Dec. 11	661	185	25	1009
De Palos, James S., New York, N. Y., assignor to American Gas Saving Company, of New York. Gas-regulator	274,733	Mar. 27	1912	534	23	1188
De Pew, Henry H., Maquoketa, Iowa. Apparatus for the treatment of uterine displacement and hernia	275,368	Apr. 10	657	175, 176	23	1347
De Puy, Clarence, and E. H. Burghardt, Rochester, N. Y. Machine for slicing apples	289,835	Jan. 2	90	7	23	6
De Puydt, Paul, Brussels, Belgium. Machinery for decorticating fibrous substances	289,999	Dec. 11	780	219, 220	25	1031
De Quillfeldt, Charles, New York, N. Y. Spring curtain-roller	271,691	Feb. 6	126	35	23	462
De Quillfeldt, Charles, New York, N. Y. Curtain-pole angle-piece	274,572	Mar. 27	1730	481	23	1154
De Quillfeldt, Charles, New York, N. Y. Fork attachment for pickle-jars	277,407	May 15	1184	318	23	1843
De Quillfeldt, Charles, New York, N. Y. Advertising-fan	278,410	May 29	2361	645	23	2061
De Quillfeldt, Charles, assignor to T. H. Hall, New York, N. Y. Paper box	271,975	Feb. 6	473	129	23	523
De Quillfeldt, Charles, assignor to Donaldson Brothers, New York, N. Y. Reticule	271,974	Feb. 6	472	128, 129	23	523
De Quillfeldt, Charles, assignor to Donaldson Brothers, New York, N. Y. Paper pocket-book	276,961	May 1	561	146	23	1722
De Quillfeldt, Charles, assignor to Donaldson Brothers, New York, N. Y. Paper card-case	276,962	May 1	562	146	23	1722
De Quillfeldt, Charles, assignor to Wemple & Co., New York, N. Y. Paper pocket-book	289,515	Dec. 4	181	50	25	918
De Rache, P. J. Leonard, New York, N. Y. Fire-proof ceiling	281,467	July 17	1413	388	24	261
De Redon, Constant F., assignor to C. Moreau, Paris, France. Electric bell	274,573	Mar. 27	1731	481	23	1154
De Rycke, J. Joseph, New York, N. Y. Adjustable elevator-platform for vessels for carrying railway-cars	283,218	Aug. 14	889	248	24	666
De Saisset, Pédre, San José, Cal. Mast for illuminators	283,581	Aug. 21	1344	375	24	755
Dé Silvèra, Herbert A., assignor of one-half to P. Bigelow, New York, N. Y. Indexing books	283,383	Aug. 21	1110	313	24	712

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
De Smedt, Edward J., Washington, D. C. Manufacturing Portland cement	274,288	Mar. 20	1342	.....	23	1080
De Smedt, Edward J., Washington, D. C. Manufacture of Portland cement	274,734	Mar. 27	1913	.....	23	1188
De Smedt, Edward J., Washington, D. C. Manufacture of Portland cement	274,735	Mar. 27	1915	.....	23	1188
De Smedt, Edward J., Washington, D. C. Refining asphaltum	286,396	Oct. 9	778	210	25	152
De Smedt, Edward J., Washington, D. C., assignor to Cumberland Hydraulic Cement and Manufacturing Company, Cumberland, Md. Hydraulic-cement compound	275,369	Apr. 10	658	.....	23	1347
De Smedt, Edward J., Washington, D. C., assignor of one-fourth to J. M. Wilcox, Philadelphia, Pa. Manufacturing Portland cement	279,357	June 12	932	.....	23	2291
De Soldenhoff, Richard, Merthyr-Tydvil, county of Glamorgan, England. Coke-oven	273,822	Mar. 13	758	206	23	979
De Souza, Julio C. R., Para, Brazil. Apparatus for aerial navigation	280,914	July 10	708	199	24	131
De Steiger, Joseph L., La Salle, Ill. Fruit-jar	278,893	June 5	296	86	23	2174
De Steiger, Joseph L., La Salle, Ill. Fruit-jar	288,983	Nov. 27	1497	414	25	792
De Tambel, Martin, assignor to Roth, McMahon & Co., Chicago, Ill. Cake, jumble, and snap machine	278,318	May 29	2238	614, 615	23	2039
De Tray, Frederick H., and R. D. Vermilya, McClure, Ohio. Knockdown table	270,579	Jan. 16	927	268	23	199
De Voursney, Abraham P., Montclair, N. J. Form or mold for bending glass	280,143	June 26	1882	529	23	2468
De Vries, Jelle A., assignor of two-thirds to L. and D. Krindenier, Pella, Iowa. Dropping attachment for corn-planters	290,322	Dec. 18	1181	331	25	1110
De Vry, John V. (See McCall and De Vry.)						
De Windt, Heyliger A., Chicago, Ill. Game apparatus for playing parlor-quoits	285,396	Sept. 25	1519	428	24	1186
De Witt, Edward A. (See Daniels and De Witt.)						
De Witt, Emil F., assignor to S. Palmer, Lansingburg, N. Y. Curtain-guide	275,163	Apr. 3	365	100	23	1289
De Witt, James M., assignor to himself, J. W. and S. F. McCreery, Greeley, Colo. Car-brake	274,738	Mar. 27	1918	535	23	1188
Deal, William M., assignor to himself, J. W. Courtney, and R. F. Frankenfield, Philadelphia, Pa. Balanced slide-valve	283,216	Aug. 14	888	247	24	665
Dean, Albert H., and S. H. Whiting, assignors of one-third to C. A. Gerdenier, Bridgeport, Conn. Railway time-recorder	279,723	June 19	1378	385	23	2373
Dean, Benaiah L., Brockton, Mass. Machine for trimming shoe-soles	282,857	Aug. 7	459	130	24	581
Dean, Charles W., assignor of one-half to E. Robinson, South Wareham, Mass. Manufacture of plumbers' hooks	279,228	June 12	765	211	23	2264
Dean, Cyrus S., Fort Erie, assignor to E. Morris, Cowland, Ontario, Canada. Pump	288,030	Nov. 6	303	86	25	559
Dean, Edward C., Washington, D. C., assignor to National Secret Telephone Company, New York, N. Y. Circuit-closer for telephone-receivers	271,610	Feb. 6	33	8	23	446
Dean, George, St. Louis, Mo. Machine for amalgamating and concentrating ores	273,969	Mar. 13	933	256, 257	23	1002
Dean, George, St. Louis, Mo. Amalgamator	286,791	Oct. 16	1270	344	25	245
Dean, George S., Independence, Iowa, assignor of one-half to R. H. Wiles, Freeport, Ill. Wire-stretcher	281,673	July 24	1677	457	24	310
Dean, J. E. (See Furman, Alonzo B., assignor.)						
Dean, Porcius F., Watsonville, Cal. Sulky	285,238	Sept. 18	1338	374	24	1147
Dean, Richard, assignor to J. B. Meriam, Cleveland, Ohio. Apparatus for distillation	290,866	Dec. 25	1900	524	25	1243
Dean, Samuel S., Mingo Junction, Ohio. Feeding attachment for nail-plate feeders	288,982	Nov. 27	1495	414	25	792
Dean, William B., New York, N. Y. Label for bottles	289,813	Dec. 11	551	154	25	989
Dean, William B., New York, N. Y. Combined stopper, cap, and label for bottles	289,814	Dec. 11	551	154	25	989
Deane, Charles P., Springfield, Mass. Steam pumping-engine	288,214	Nov. 13	523	145	25	608
Dearborn, Charles A., assignor to Empress Sewing Machine Company, Chicago, Ill. Bobbin-winder for sewing-machines	274,088	Mar. 13	1079	297	23	1027
Dearborn, George W., East Boston, Mass. Window-jack	280,803	July 10	584	163	24	110
Dearborn, George W., Boston, Mass. Sleigh	282,963	Aug. 14	578	163	24	610
Dearborn, Huldah A., Austin, Minn. Combined ironing and cutting table	282,708	Aug. 7	294	83	24	551
Dearborn, Richard J., Boston, Mass. Fire-escape	271,809	Feb. 6	271	75	23	488
Debayeux, Auguste, Paris, France. Balloon or aerial machine	282,060	July 31	2171	596	24	402
Debolt, Levi, Jr., Kingston Centre, Ohio. Sleigh	272,532	Feb. 20	1196	334	23	664
Debontteville, Edouard F. D., Rouen, France. Machine for shaping, drilling, boring, and facing metals	275,604	Apr. 10	960	261	23	1399
Decastro, Jacob W. (See Müller and Decastro.)						
Decastro, Jacob W., Mahwah, N. J. Making condensed milk	274,469	Mar. 27	1581	.....	23	1130
Decastro, Jacob W., Mahwah, N. J. Converting starch into glucose	279,354	June 12	930	.....	23	2291
Decastro, Jacob W., and T. H. Müller, New York, N. Y. Apparatus for separating bodies of different specific gravities	273,037	Feb. 27	1844	516	23	784
Decastro, Jacob W., and T. H. Müller, New York, N. Y. Apparatus for separating bodies of different specific gravities	273,038	Feb. 27	1845	516, 517	23	785
Decker, Alexander C., assignor of one-half to J. and P. Ayres, Bushnell, Ill. Wire-stretcher	288,166	Nov. 6	458	128	25	587
Decker, James, Surrency, Ga. Rice-beater	271,810	Feb. 6	273	75	23	488
Decker, John C. (See Blackall and Decker.)						
Decker, William J., New York, N. Y. Mechanical puzzle	286,395	Oct. 9	778	210	25	152
Decker, William J., assignor to himself and J. J. Lydecker, New York, N. Y. Folding chair	274,730	Mar. 27	1909	533	23	1187
Decker, William N., Columbus, Ohio. Automatic valve for water-closets	288,167	Nov. 6	459	129	25	588
Dederick, Levi, Albany, N. Y., assignor of one-half to E. H. Reynolds, Newark, N. J. Machine for stretching and drying hides	287,009	Oct. 23	1553	428	25	299
Dederick, Peter K., Albany, N. Y. Baling-press	270,760	Jan. 16	1160	332	23	242
Dederick, Peter K., Albany, N. Y. Baling-press	271,811	Feb. 6	273	75	23	489
Dederick, Peter K., Albany, N. Y. Baling-press	271,812	Feb. 6	275	76	23	489
Dederick, Peter K., Loudonville, N. Y. Binding bales of pressed hay, cotton, &c	275,366	Apr. 10	654	175	23	1346
Dederick, Peter K., Loudonville, N. Y. Baling-press	280,456	July 3	150	40	24	28
Dederick, Peter K., Loudonville, N. Y. Baling-press	287,107	Oct. 23	1684	461	25	325
Dedman, Thomas M., Des Moines, Iowa. Weather-boarding gage, clamp, and saw-guide	277,890	May 22	1686	460	23	1935
Deeds, John B., assignor of one-half to A. Grimes, Terre Haute, Ind. Lamp-burner and chimney-holder	273,039	Feb. 27	1846	517	23	785
Deeds, John B., assignor of one-half to W. Mack, Terre Haute, Ind. Lamp or torch	274,731	Mar. 27	1910	533	23	1187
Deeds, John B., assignor of one-half to W. Mack, Terre Haute, Ind. Wick-raiser for lamps	282,282	July 31	2459	677	24	450
Deeds, John B., assignor of one-half to W. Mack, Terre Haute, Ind. Wick adjuster and trimmer for lamps	283,217	Aug. 14	889	248	24	666
Deeds, John B., and W. Mack, Terre Haute, Ind. Wick-raiser	276,525	Apr. 24	2124	591	23	1614
Deeds, John B., and W. Mack, Terre Haute, Ind. Lid for miners' lamps	281,846	July 24	1910	521	24	351
Deeds, John B., and W. Mack, Terre Haute, Ind. Slate and window cleaner	287,254	Oct. 23	1869	511	25	358
Deeg, Martin, Owatonna, Minn. Wagon-reach	275,331	Apr. 3	588	158	23	1326
Deegan, John, *et al.* (See O'Malley, Thomas M., assignor.)						
Deegan, Mathew F., assignor of one-half to H. Hooper, Chicago, Ill. Construction and ventilation of sanitary devices, &c	270,761	Jan. 16	1161	332	23	242
Deeley, John, Jr., Birmingham, county of Warwick, and J. S. Edge, Jr., Yardley, county of Worcester, England. Breech-loading fire-arm	275,605	Apr. 10	964	262	23	1399

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Deems, Gilbert C. (See Lambert and Deems.)						
Deere & Mansur Company. (See Phelps, Byron, assignor.)						
Deering, James, South Paris, Me., and D. R. Symonds, Plano, Ill. Grain-binder	274,111	Mar. 20	1116	308	23	1040
Deering, William. (See Carver, George H., assignor.)						
Deering, William. (See Creighton, James P., assignor.)						
Deering, William. (See Olin, William F., assignor.)						
Deering, William. (See Spaulding, George H., assignor.)						
Deering, William. (See Webster, John W., assignor.)						
Deering, William, Louisville, Ky. Cotton-gin rib	289,996	Dec. 11	778	219	25	1030
Dees, Mark A., Moss Point, Miss. Locomotive	272,218	Feb. 13	784	217, 218	23	588
Deeves, Richard. (See Bandman, Charles J., assignor.)						
Degaris, Albert. (See Welling, John E., assignor.)						
Degenhart, Charles, Covington, Ky. Ferrule for canes, &c	281,245	July 17	1134	312	24	214
Dégrange, Claude, Lyons, France. Cart-wheel	283,867	Aug. 28	1690	477	24	830
Dehney, William H., Rochester, N. Y. Combined plumb, square, and level	280,358	July 3	23	6, 7	24	6
Deidrick, William H., Selma, Cal. Dirt-scraper	275,893	Apr. 17	1338	368	23	1471
Deimel, Gustave, Hancock, Mich. Trunk	284,825	Sept. 11	821	229	24	1050
Deitzler, George W., San Francisco, Cal. Evaporative cooler	271,813	Feb. 6	277	76	23	489
Dejonge, Louis, Jr., Stapleton, N. Y. Machine for winding paper	281,034	July 10	858	239	24	159
Del Bondio, Emile F., New Orleans, La. Butter-worker	276,006	Apr. 17	1465	404	23	1494
Del Valle, Eliseo, Ponce, Porto Rico. Boiler-feeder	285,585	Sept. 25	1739	491	24	1227
Delabove, Louis A., Lille, Nord, France. Bleaching threads and fabrics	280,141	June 26	1880	.....	23	2468
Delafield, A. Floyd, Noroton, Conn. Dynamo-electric machine	278,516	May 29	2491	680	23	2084
Delafield, A. Floyd, Noroton, Conn. Electric battery	287,641	Oct. 30	2371	639	25	460
Delamater, Cornelius H., *et al.* (See Miller, James, assignor.)						
Delamater, Cornelius H., *et al.* (See Reynolds, George H., assignor.)						
Delamater, William, *et al.* (See Reynolds, George H., assignor.)						
Deland, Edward E., Brady, Tex. Shepherd's crook	275,161	Apr. 3	364	100	23	1289
Delano, Clarence C., Musson, La. Car-coupling	277,242	May 8	913	245	23	1789
Delany, Patrick B. (See Calahan and Delany.)						
Delany, Patrick B., New York, N. Y. Electric cable	283,763	Aug. 28	1570	444	24	810
Delany, Patrick B., New York, N. Y. Electrical conductor	283,764	Aug. 28	1571	444	24	810
Delany, Patrick B., New York, N. Y. Electrical conductor	290,753	Dec. 25	1767	488	25	1240
Delany, Patrick B., New York, assignor to himself and E. A. Calahan, Brooklyn, N. Y. Apparatus for substituting gas for electric lights	274,181	Mar. 20	1203	331	23	1056
Delany, Patrick B., assignor to Standard Electric Manufacturing Company, New York, N. Y. Electrical synchronous movement	286,273	Oct. 9	602	165	25	120
Delany, Patrick B., assignor to Standard Electric Manufacturing Company, New York, N. Y. Electrical synchronous movement	286,274	Oct. 9	605	166	25	121
Delany, Patrick B., assignor to Standard Electric Manufacturing Company, New York, N. Y. Electrical synchronous movement	286,275	Oct. 9	610	166	25	122
Delany, Patrick B., assignor to Standard Electric Manufacturing Company, New York, N. Y. Electrical synchronous movement	286,276	Oct. 9	615	167	25	123
Delany, Patrick B., assignor to Standard Electric Manufacturing Company, New York, N. Y. Electrical synchronous movement	286,277	Oct. 9	619	167, 168	25	123
Delany, Patrick B., assignor to Standard Electric Manufacturing Company, New York, N. Y. Electrical synchronous movement	286,278	Oct. 9	623	168	25	124
Delany, Patrick B., assignor to Standard Electric Manufacturing Company, New York, N. Y. Duplex telegraphy	286,279	Oct. 9	629	169	25	125
Delany, Patrick B., assignor to Standard Electric Manufacturing Company, New York, N. Y. Telegraphic apparatus	286,280	Oct. 9	633	170	25	125
Delany, Patrick B., assignor to Standard Electric Manufacturing Company, New York, N. Y. Electrical synchronous mechanism	286,281	Oct. 9	635	170	25	125
Delany, Patrick B., assignor to Standard Electric Manufacturing Company, New York, N. Y. Telegraphy	286,282	Oct. 9	638	170	25	126
Delany, Peter, Owasco, N. Y. Siding-hook square	280,588	July 3	304	84	24	54
Delany, Thomas J., and W. W. Jameson, Kansas City, Mo. Preparing yeast	287,367	Oct. 23	2008	.....	25	383
Delaplaine, James L., J. G. Hendrickson, and F. J. Clamer, Philadelphia, Pa. Removing tin from tin-scrap by electricity	282,964	Aug. 14	579	164	24	610
Delaware Steam Appliance Company. (See Dimelow, James, assignor.)						
Delffs, Arnold, Bedford, Tenn. Earthen fence	277,687	May 15	1443	389	23	1886
Deline, Jeremiah, Akron, Ohio. Milk-cooler	280,359	July 3	24	7	24	6
Delker, George. (See Mart, George W., assignor.)						
Delker, George, *et al.* (See Bippus, Ferdinand G., assignor.)						
Delker Phaeton Company, *et al.* (See Bippus, Ferdinand G., assignor.)						
Dell, John, St. Louis, Mo. Device for fastening mouth-pieces to gas-retorts	275,162	Apr. 3	365	100	23	1289
Delmage, Christopher L., Woonsocket, assignor to F. Grinnell, Providence, R. I. Automatic fire-extinguisher	281,181	July 10	1042	289	24	191
Delnow, Charles H., *et al.* (See Matzeliger, Jan E., assignor.)						
Delp, Abram J. (See Witsil, George L., assignor.)						
Delp, Peter. (See Patzem and Wagner, assignors.)						
Delue, George V., assignor of one-fourth to B. A. Marks, Boston, Mass. Automatic gate for elevators	274,887	Mar. 27	2105	586	23	1219
Demain, William C., Cambridgeport, Mass. Machine for cutting and forming ruling-pens	274,732	Mar. 27	1911	534	23	1187
Demain, William C., Medford, Mass. Packing-box for ruling-machines	275,606	Apr. 10	966	262, 263	23	1399
Demarest, C. W. (See Farnham, Frank G., assignor.)						
Demarest, John, New York, N. Y. Cistern for water-closets	269,921	Jan. 2	114	34	23	24
Demarest, John, assignor to J. L. Mott Iron Works, New York, N. Y. Pull-cup for water-closets	274,182	Mar. 20	1204	331	23	1056
Dement, Merritt H., Chicago, Ill. Type writing and printing machine	282,174	July 31	2333	644	24	427
Dement, Merritt H., New York, N. Y. Type writing and printing machine	282,175	July 31	2336	644	24	427
Dement, Merritt H., Chicago, Ill. Apparatus for justifying stereotyped line-strips and putting and securing them in column or page form	282,176	July 31	2338	644, 645	24	427
Dement, Merritt H., Chicago, Ill. Preparing matrix-forms for stereotyping. (Reissue)	10,385	Sept. 25	1994	564	24	1270
Dement, Merrill H., Chicago, Ill. Telegraphic transmitter	287,914	Nov. 6	176	45	25	535
Dement, Merritt H., and A. W. Granville, Chicago, Ill. Apparatus for stereotyping matrix-strips	285,470	Sept. 25	1606	451	24	1202
Dement, Samuel, S. D. and J. A. Palmer, East Lynn, Ill. Seed-dropper	288,317	Nov. 13	655	181	25	629
Dempster, John, Knoxville, Tenn. Millstone-driver	277,688	May 15	1444	389	23	1886
Dempster, James, and W. J. Horton, Halifax, Nova Scotia, Canada. Combined firemen's ladder and fire-escape	279,545	June 19	1172	325	23	2336

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dénéchaud, Edward F., and J. H. Reynolds, New Orleans, La. Mechanical fan	281,035	July 10	859	239	24	159
Dengler, Valentine. (See Connell and Dengler.)						
Deniaud Patrice. (See Dauché and Deniaud.)						
Denis, Arthur. (See Quinet and Denis.)						
Denison, Elias B. (See Brown, Denison, and Brown.)						
Denison, W. O., *et al.* (See Magruder, George C. W., assignor.)						
Denn, Clayton, Philadelphia, Pa. Warp-linking machine	288,032	Nov. 6	306	87	25	560
Dennett Harvesting Machine Company. (See Bullock, Joseph P., assignor.)						
Dennett Harvesting Machine Company. (See Young, Charles M., assignor.)						
Dennett, Herbert E., Somerville, Mass. Self-setting tamp for blasting	282,061	July 31	2172	596	24	402
Denney, Harmer, Brooklyn, assignor to himself and A. Webster, New York, N. Y. Gas-engine	290,632	Dec. 18	1599	439	25	1182
Denney, Samuel L., Strasburg, assignor of one-fourth to I. L. Landis, Lancaster, Pa. Car-door fastener	281,246	July 17	1135	312	24	214
Denney, William H., Lancaster, Pa. Machine for milling links for engines	271,431	Jan. 30	1995	575, 576	23	400
Dennie, Benjamin. (See Barrett, James, assignor.)						
Dennie, Charles H. (See Kauffer and Serson, assignors.)						
Dennis Cash Carrier Company. (See Coram, George B. and J. C., assignors.)						
Dennis Cash Carrier Company. (See Thissell, Earl A., assignor.)						
Dennis, Charles A. (See Dennis, Theodore A., assignor.)						
Dennis, Clara E. (See Dennis, James W., assignor.)						
Dennis, Henry J., Hastings, Minn. Step-ladder	273,474	Mar. 6	304	82	23	885
Dennis, J. Nelson, *et al.* (See Dennis, John, assignor.)						
Dennis, James W., assignor to C. E. Dennis, Cincinnati, Ohio. Electro-medical appliance	285,977	Oct. 2	247	70	25	47
Dennis, John, *et al.* (See Coram, John C., assignor.)						
Dennis, John, assignor to himself, J. C. and G. B. Coram and J. N. Dennis, Lowell, Mass. Parcel-carrier and elevated track for same	278,226	May 22	2097	577, 578	23	2007
Dennis, Theodore A., assignor to himself and C. A. Dennis, Newark, N. J. Box-fastener	280,142	June 26	1881	529	23	2468
Dennis, Thomas H. P., Chelmsford, county of Essex, England. Knob attachment	284,396	Sept. 4	291	81	24	953
Dennis, Thomas J. (See Murray, Peter, Jr., assignor.)						
Dennison, Lemuel M. (See Williams, Gurdon H., assignor.)						
Denny, John R., Piasa, Ill. Farm-gate	289,998	Dec. 11	779	219	25	1030
Denny, John T., Reidsville, N. C. Bee-hive	282,284	July 31	2460	678	24	450
Denny, John W., assignor to J. A. Banister, Newark, N. J. Last	280,724	July 3	463	133	24	83
Dennys, Nicolas B., Singapore, Straits Settlements. Composition for preventing fouling of ships' bottoms	274,888	Mar. 27	2107	.....	23	1219
Densmore, Jay, Niles, Mich. Machine for retouching photographic negatives	290,217	Dec. 18	1048	294, 295	25	1088
Denton, Whitley, Little Falls, N. Y. Bobbin-holder for knitting-machines	270,208	Jan. 9	451	132	23	99
Denton, William B., Wichita, Kans. Velocipede	279,356	June 12	931	260	23	2291
Depew, James, *et al.* (See Depew, John H., assignor.)						
Depew, John H., assignor to himself and W. H. Depew, Peekskill, N. Y. Sprue for foundry use	275,332	Apr. 3	589	158	23	1326
Depew, John H., assignor to himself, J. Depew, and J. C. Acker, Peekskill, N. Y. Car-coupling	279,229	June 12	766	212	23	2264
Depew, William H. (See Depew, John H., assignor.)						
Depp, Hezekiah E., Sedalia, Mo. Valve-gear	278,689	June 5	18	5	23	2128
Depp, Hezekiah E., Sedalia, Mo. Steam and air engine	290,405	Dec. 18	1282	360	25	1129
Deputy, Jesse J., Philadelphia, Pa. Velocipede	286,593	Oct. 16	1021	277	25	202
Derby Bit Company. (See Parmelee, William L., assignor.)						
Derby, George M., New York, N. Y. Rock-drilling apparatus	278,517	May 29	2492	681	23	2085
Derby Silver Company. (See Berry, Henry, assignor.)						
Déri, Maximilian. (See Zipernowsky and Déri.)						
Deschamps, Francis O., Philadelphia, Pa. Shaft-coupler	269,836	Jan. 2	21	7	23	7
Deschamps, Francis O., Philadelphia, Pa. Shaft-coupler	270,287	Jan. 9	546	161	23	117
Desgoffe, Auguste, Paris, France, and L. A. di Giorgio, Odessa, Russia. Apparatus for extracting juices from animal and vegetable substances	287,010	Oct. 23	1554	428, 429	25	300
Desmond, John, assignor of two-thirds to W. A. and T. G. Bennett, Jackson, Mich. Steam-injector	270,937	Jan. 23	1373	396	23	286
Desper, Rogers & Co. (See Codding, Frederick W., assignor.)						
Dessart, Charles H., New York, N. Y. Mask-fastener	282,285	July 31	2461	678	24	450
Dessauer, David, Martinsville, Ind. Attachment for holding tips on billiard-cues	270,402	Jan. 9	696	206	23	145
Detrick, Calvin, New York, N. Y. Tube-lined cement conduit and making the same	288,033	Nov. 6	308	87	25	560
Detrick, Calvin, New York, N. Y. Machine for making lined conduits of plastic or semi-plastic material	288,034	Nov. 6	309	87	25	560
Detrick, Edington, San Francisco, Cal. Seam for grain-bags	274,736	Mar. 27	1916	534	23	1188
Detrick, Jacob S., Baltimore, Md. Metal-planer	278,518	May 29	2493	681	23	2085
Detrick, Jacob S., Baltimore, Md. Filter	290,000	Dec. 11	783	221	25	1031
Detrick, William, Indianapolis, Ind. Compound for roofing buildings	284,725	Sept. 11	701	.....	24	1029
Detroit Iron and Brass Manufacturing Company. (See Newman, Charles H., assignor.)						
Detroit Lubricator Company. (See Hodges, Charles C., assignor.)						
Dette, Wilhelm, Berlin, Germany, assignor to B. B. Schneider, Orange, N. J. Fountain-lamp	290,001	Dec. 11	784	221	25	1031
Detter, William H., Kenton, Ohio. Convertible plow	276,674	May 1	177	45, 46	23	1654
Detter, William H., Kenton, Ohio. Convertible plow	276,675	May 1	179	46, 47	23	1655
Detterer, John T., Willshire, Ohio. Hub-boring machine	274,470	Mar. 27	1582	434	23	1130
Detterer, John T., Willshire, Ohio. Bedstead	275,894	Apr. 17	1339	369	23	1471
Dettmar, John F., Brooklyn, assignor to R. Dudgeon, New York, N. Y. Tool for expanding the ends of boiler-tubes	284,618	Sept. 11	562	159	24	1006
Detwiller, Jacob J., Jersey City, N. J. Rocket	276,007	Apr. 17	1467	404	23	1494
Deudi, Torello. (See Meucci and Deudi.)						
Deuscher, Henry P. (See Farmer, Henry, assignor.)						
Deuscher, Henry P. (See Felt, Hannibal, assignor.)						
Deuther, Lorenz A., Buffalo, N. Y. Back for picture and other frames	270,563	Jan. 9	905	261	23	186
Deuther, Lorenz A., Buffalo, N. Y., assignor of one-half to Duncan & Johnston, Chicago, Ill. Back for picture and other frames	274,737	Mar. 27	1917	534	23	1188
Deutscher, Mathew. (See Zehnder, Henry F., assignor.)						
Deveau, Edward A. (See David, Jacob, assignor.)						
Devendorf, Henry A., Port Jackson, N. Y. Barbed fence-wire	272,534	Feb. 20	1198	334	23	664
Devening, Philip, Ray's Crossing, Ind. Seed-planter	284,397	Sept. 4	292	82	24	953
Deveny, Paul P. (See Parker and Deveny.)						
Deverall, Edwin R., New York, N. Y. Oil-can	272,535	Feb. 20	1199	334	23	664
Devereux, Washington, Bloomsburg, Pa. Screw-driver	287,809	Nov. 6	22	8	25	511

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Devers, William J., assignor of one-half to W. T. O'Malley, Providence, Pa. Extension-table	283,582	Aug. 21	1346	376	24	755
Devine, James, assignor of one-half to F. Krein, St. Louis, Mo. Ventilator for blast-pipes	270,182	Jan. 2	416	121	23	85
Devlin, J. Allen, Philadelphia, Pa. Post for electric conductors	286,397	Oct. 9	780	211	25	152
Devoe, Benjamin G., Kenton, assignor to Lima Iron Fence Company, Lima, Ohio. Iron fence	271,196	Jan. 23	1602	489	23	337
Devor, James R., Goshen, Ind., assignor of one-half to E. S. Norton, St. Paul, Minn. Press	269,922	Jan. 2	116	34	23	24
Devore, Levi M., *et al.* (See Kochsmeier, Henry P., assignor.)						
Devore, Levi M., Freeport, Ill. Spring-hinge	288,984	Nov. 27	1497	415	25	793
Devore, Levi M., assignor to himself and I. F. Kleckner, Freeport, Ill. Spring-hinge	282,858	Aug. 7	459	130	24	581
Devore, Levi M., and D. C. Stover, assignors to said Devore and E. B. Winger, Freeport, Ill. Grinding-mill	269,923	Jan. 2	117	35, 36	23	24
Dew, Joseph R., Knoxville, Tenn. Fruit-drier	284,726	Sept. 11	702	196	24	1029
Dewell, Samuel, River Sioux, Iowa. Geodometer	281,468	July 17	1414	388	24	261
Dewey, Hosea B., Whitewater, Wis. Top for sheet-metal vessels	278,319	May 29	2241	615	23	2040
Dewey, Washington, Chicago, Ill. Key-fastener	281,247	July 17	1136	312	24	214
Dews, Edwin. (See Covell, Edward T., assignor.)						
Dews, Edwin, Ansonia, Conn. Die for drawing angular tubing	282,859	Aug. 7	461	130	24	582
Dexter, Carlisle J., Folger, Ill. Device for checking runaway teams	282,860	Aug. 7	462	131	24	582
Dexter, Frederick H., Wardsborough, Vt. Mechanical movement	273,040	Feb. 27	1848	517	23	785
Dexter, George B., Boston, Mass. Imitation of metal castings or carvings	270,580	Jan. 16	928	268	23	199
Dexter, George N., Jr., Madison, Ga. Plow	290,669	Dec. 25	1645	453	25	1197
Dexter, Talbot C., Des Moines, Iowa. Paper-folding machine	279,083	June 5	578	158	23	2222
Dexter, Talbot C., Des Moines, Iowa. Sheet carrying and adjusting device for paper-folding machines	2-7,421	Oct. 30	2077	564	25	403
Dexter, Talbot C., Des Moines, Iowa. Paper folding, pasting, and trimming attachment for printing-presses	287,422	Oct. 30	2078	565	25	403
Dey, David P., Brooklyn, and G. M. Hathaway, assignors of one-third to R. C. White, New York, N. Y. Hydraulic steering-engine for ships	286,534	Oct. 9	939	253	25	181
Deyo, Jeremiah, Denton, Mich. Safety attachment for gun-locks	290,867	Dec. 25	1901	525	25	1243
D'Humy, Paul R. de F., Carlton Mansions, Clapham Rise, county of Surrey, England. Incandescent electric lamp	282,861	Aug. 7	463	131	24	582
Di Giorgio, Leonidas A. (See Desgoffe and Di Giorgio.)						
Diamond Match Company. (See Beecher and Elliott, assignors.)						
Diamond Match Company. (See Millen, George H., assignor.)						
Diamond Match Company. (See Wright, Jacob P., assignor.)						
Diamond Match Company. (See Young, McClintock, assignor.)						
Dibble, Frank H., Ansonia, Conn. Horse-canopy	279,139	June 12	672	185	23	2248
Dibble, John L., Brooklyn, N. Y. Game-board	283,868	Aug. 28	1691	477	24	830
Dibble, John L., Brooklyn, N. Y. Game board or table and appurtenances thereto	283,869	Aug. 28	1692	477	24	830
Dibrell, J. W. (See Grainger, Charles J., assignor.)						
Dice, Andrew F., assignor of one-half to A. H. Shreffler, Joliet, Ill. Check-rower attachment for corn-planters	281,469	July 17	1415	388	24	262
Dick, George, *et al.* (See Buie, Duncan M., assignor.) (Reissue.)						
Dickerman, Amos, New Haven, Conn. Machine for setting primers in cartridge-shells	270,288	Jan. 9	547	161	23	117
Dickerman, Amos, New Haven, Conn. Breech-loading ordnance	270,289	Jan. 9	548	161	23	117
Dickerman, Amos, New Haven, Conn. Breech-loading cannon	279,639	June 19	1279	355	23	2356
Dickerson, Edward N., Jr., and C. G. Curtis, New York, N. Y. Automatic electric railway	270,209	Jan. 9	452	132, 133	23	100
Dickerson, John E., Iberia, Mo. Car-coupling	276,229	Apr. 24	1743	483	23	1549
Dickerson, Norvel M. (See Cunningham and Dickerson.)						
Dickerson, William R., North Bend, Nebr. Device for raising and lining railway-tracks	271,611	Feb. 6	34	9	23	446
Dickey, Alexander H., Connersville, Ind. Two-wheeled vehicle	274,739	Mar. 27	1918	535	23	1189
Dickey, James H., Sparta, Ill., assignor of one-half to C. Colahan, Cleveland, Ohio. Harvester chain-rake	276,008	Apr. 17	1468	404	23	1494
Dickey, Wallace C., Peoria, Ill. Oatmeal-machine	289,516	Dec. 4	182	50	25	918
Dickey, William H., assignor of one-half to G. S. Bennett, Jackson, Mich. Chain	282,177	July 31	2343	645	24	428
Dickie, George W., San Francisco, Cal. Steam-boiler	275,471	Apr. 10	802	216	23	1371
Dickinson, Arthur S., Springfield, Mass. Car brake and starter	283,219	Aug. 14	691	248, 249	24	666
Dickinson, C. B. (See Kennish, William, assignor.)						
Dickinson, De Alton. (See Gore, Henry A., assignor.)						
Dickinson, Dwight L., *et al.* (See Galentine, Elias C., assignor.)						
Dickinson, Fannie, Chicago, Ill. Bed-pan	280,360	July 3	25	7	24	7
Dickinson Hard Rubber Company. (See Nickerson, Fred. A., assignor.)						
Dickinson, William, Rockford, Ill. Combined seeding and cultivating machine	282,614	Aug. 7	166	50	24	530
Dickman, Peter, Defiance, Ohio. Rub-iron for wagons	273,041	Feb. 27	1849	517	23	785
Dickson, Charles T., Cincinnati, Ohio. System and apparatus for communicating telephonically	278,411	May 29	2362	645, 646	23	2061
Dickson, Frank. (See Martin, William, assignor.)						
Dickson, Gilbert J., Albany, N. Y. Vehicle	280,361	July 3	26	7, 8	24	7
Dickson, Gilbert J., Albany, N. Y. Ice-tongs	287,423	Oct. 30	2081	565	25	404
Dickson, Henry, Pittsburg, Pa. Apparatus for drying green brick	290,323	Dec. 18	1183	331	25	1111
Dickson, L. Taylor, Philadelphia, Pa. Fall-block hook	271,226	Jan. 30	1727	500	23	353
Dickson, L. Taylor, Philadelphia, Pa. Anchor	279,210	June 12	768	212	23	2264
Dickson, Robert F., Atoka, Tenn. Composition for cleaning marble surfaces	290,754	Dec. 25	1768	.....	25	1220
Didiot, Nicholas, Bakersfield, Cal. Centrifugal pump	287,508	Oct. 30	2185	593	25	424
Diebel, William, assignor to S. A. Gunn, Philadelphia, Pa. Stop-motion mechanism for knitting-machines	278,894	June 5	297	86	23	2174
Diebold, Charles, Lebanon, Pa. Preparing slag for railways and roadways	281,248	July 17	1137	.....	24	214
Diebold, Charles, Lebanon, Pa. Machine for making paving and building blocks	287,011	Oct. 23	1556	429	25	300
Dieckmann, Diedrich, and C. Schmiedtzinsky, New York, N. Y. Pump	289,517	Dec. 4	182	51	25	918
Diedrich, Nicholas. (See Mersiowsky, August E., assignor.)						
Diefendorf, Amenzo W., and P. H. Merrill, Wyocena, Wis. Cultivator	271,432	Jan. 30	1998	576	23	401
Diehl, Justus, New York, N. Y. Piano sounding-board	280,362	July 3	29	8	24	7
Diehl, Philip. (See Miller and Diehl.)						
Diehl, Philip, Elizabeth, N. J. Electric incandescent lamp	272,125	Feb. 13	678	185	23	569
Diehl, Philip, Elizabeth, N. J. Incandescent electric lamp	276,571	May 1	37	10	23	1633
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Button-hole attachment for sewing-machines	270,290	Jan. 9	548	162	23	117
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Button-hole sewing-machine	272,126	Feb. 13	680	185, 186	23	569
Diehl, William H., Hyde Park, Pa. Car-coupling	273,475	Mar. 6	304	82	23	885
Dietrich, Carl A., Shawneetown, Mo. Sawing-machine	280,144	June 26	1883	529	23	2468

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dietrich, Henry, Pittsburg, assignor to G. A. Macbeth, Allegheny, Pa. Tool for finishing hollow glassware	285,345	Sept. 18	1448	408	24	1168
Dietsch, Frank E., Woodbury Falls, N. Y. Tawing skins	287,255	Oct. 23	1869	.....	25	358
Dietterlin, Charles. (See Rebstock, Christian, assignor.)						
Dietz, Alfred C., San Francisco, Cal. Harness check-hook	288,696	Nov. 20	1144	315	25	721
Dietz, Augustus, Philadelphia, Pa. Machine for the manufacture of blocks, &c., out of asphalt, &c	289,397	Dec. 4	29	9, 10	25	892
Dietz, Frederick. (See Krummenauer, John, assignor.)						
Dietz, Frederick, New York, N. Y. Lantern	273,711	Mar. 13	604	162	23	945
Dietz, Frederick, New York, N. Y. Lantern	273,712	Mar. 13	605	163	23	945
Dietz, Frederick, New York, N. Y. Lantern	285,880	Oct. 2	129	37	25	95
Dietzel, George, and S. Green, New York, N. Y. Chenille ornament	282,709	Aug. 7	295	83	24	551
Dight, W. M. (See Sykes, Thomas B., assignor.)						
Dighton Furnace Company. (See Arnold, Noah S., assignor.)						
Dikeman, Charles S., Waterbury, Conn. Napkin-holder	282,286	July 31	2462	678	24	450
Dill, A. H. (See Bingaman, Samuel H., assignor.)						
Dill, Charles H. (See Smock and Dill.)						
Dill, Thomas B., Medford, Mass. Channeling-machine for boots and shoes	271,227	Jan. 30	1728	500	23	353
Dillard, John J., Eureka Springs, Ark. Medicated soap	287,642	Oct. 30	2371	.....	25	460
Dillehay, Anthony R., Clyde, Kans. Churn	269,837	Jan. 2	93	7	23	7
Dillehay, John T., Beech Grove, Ky. Vehicle-brake	290,868	Dec. 25	1902	525	25	1243
Diller, Henry, Yale, Kans. Combined corn-planter and grain-drill	290,670	Dec. 25	1646	453, 454	25	1197
Dillig, George, Millvale, Pa. Wagon-spring	272,219	Feb. 13	785	218	23	568
Dillman, Andrew, *et al.* (See Nadelhoffer, John W., assignor.)						
Dillon, Benjamin F., and A. Gärtner, Savannah, Ga. Railway cattle-guard	275,333	Apr. 3	590	158	23	1326
Dillon, Daniel, Nashville, Tenn. Fertilizer-distributer	284,189	Sept. 4	37	10	24	911
Dillon, Michael, New Haven, Conn. Shoe	283,082	Aug. 14	724	203	24	636
Dimelow, James, assignor to Delaware Steam Appliance Company, Wilmington, Del. Injector	280,589	July 3	305	84	24	54
Dimick, George, Sedalia, Mo. Lubricating compound	287,643	Oct. 30	2372	.....	25	460
Dimock, Gordon C., Madison, Nebr. Pneumatic clothes-pounder	280,145	June 26	1883	530	23	2468
Dimock, Henry S., Phelps, N. Y. Liquid-cooler	277,689	May 15	1445	390	23	1886
Dimock, Henry S., assignor of one-half to J. A. Stringer, Phelps, N. Y. Hitching-strap	280,363	July 3	30	8	24	7
Dimock, Ira, Hartford, Conn. Device for feeding spool-blanks and braid-roll blanks	278,320	May 29	2242	615	23	2040
Dimock, John W., Carbondale, Pa. Necktie-fastener	278,690	June 5	50	6	23	2128
Dimock, Otis, New London, Conn. Anvil	281,847	July 24	1911	522	24	352
Dimock, Robert H., and J. A. Robinson, New Haven, Conn. Oil-burner	286,914	Oct. 16	1430	393	25	272
D'Infreville, Georges, New York, N. Y. Telegraph apparatus	274,112	Mar. 20	1120	309	23	1041
D'Infreville, Georges, New York, N. Y. Quadruplex telegraph	281,249	July 17	1138	313, 314, 315	24	214
Dingens, John C. (See Bender, Louis L., assignor.)						
Dinkel, George. (See Niese and Dinkel.)						
Dinkel, George, Jersey City, N. J. Device for cleaning vacuum-pans	277,012	May 8	626	164	23	1739
Dinneen, Maurice, Boston, Mass. Faucet	272,536	Feb. 20	1200	335	23	664
Dinsley, Edward. (See Richards and Dinsley.)						
Dinsmore, Alfred S. (See Shaw and Dinsmore.)						
Dinsmore, Alfred S., Boston, Mass. Gaging-tunnel	280,804	July 10	584	163	24	110
Dinsmore, Alfred S., Boston, Mass. Oil-stove	282,504	Aug. 7	33	10	24	506
Dion, Joseph P., Biddeford, Me. Heel-burnisher and edge-setter	290,544	Dec. 18	1484	410	25	1163
Disbrow, Myron H., Rochester, N. Y. Fruit-crate	289,754	Dec. 4	479	135	25	970
Disbrow, Park. (See Riley, Phillip, Sr., assignor.)						
Dischinger, Henry, Elmore, Ohio. Paint-brush protector	271,814	Feb. 6	278	77	23	490
Diss, Albert B., Brooklyn, N. Y. Mold for forming articles of celluloid and other plastic materials	278,321	May 29	2243	616	23	2040
Disston, Albert H., *et al.* (See Settle, Thomas, assignor.)						
Disston, Hamilton, *et al.* (See Settle, Thomas, assignor.)						
Disston, Horace C., *et al.* (See Settle, Thomas, assignor.)						
Disston, William, *et al.* (See Settle, Thomas, assignor.)						
Distin, Henry, Philadelphia, Pa. Manufacture of musical instruments	286,398	Oct. 9	781	211	25	152
Distin, Henry, Philadelphia, Pa. Case for musical instruments	286,399	Oct. 9	782	211	25	152
Dittenhoefer, Myer, New York, N. Y. Syringe	285,978	Oct. 2	248	70	25	47
Dittenhoefer, Myer, assignor to H. Berolzheimer, New York, N. Y. Lead or crayon holder	290,178	Dec. 11	987	279	25	1069
Ditterline, William S., Mauch Chunk, Pa. Tremolo attachment for cornets	282,448	July 31	2685	736	24	488
Ditwiler, Homer B., Mansfield, Ohio. Suspender-end	277,997	May 22	1814	495	23	1957
Ditzel, Rudolph R. (See Kellar and Ditzel.)						
Divine, Silas R., Loch Sheldrake, N. Y., assignor to Rend Rock Powder Company, of New Jersey. Preparing explosive compounds	289,755	Dec. 4	480	.....	25	970
Divine, Silas R., Loch Sheldrake, N. Y., assignor to Rend Rock Powder Company, of New Jersey. Explosive compound	289,756	Dec. 4	481	.....	25	970
Divine, Silas R., Loch Sheldrake, N. Y., assignor to Rend Rock Powder Company, of New Jersey. Explosive compound	289,757	Dec. 4	482	.....	25	970
Divine, Silas R., Loch Sheldrake, N. Y., assignor to Rend Rock Powder Company, of New Jersey. Explosive compound	289,758	Dec. 4	482	.....	25	970
Divine, Silas R., Loch Sheldrake, N. Y., assignor to Rend Rock Powder Company, of New Jersey. Explosive compound	289,759	Dec. 4	483	.....	25	970
Divine, Silas R., Loch Sheldrake, N. Y., assignor to Rend Rock Powder Company, of New Jersey. Explosive compound	289,760	Dec. 4	483	.....	25	971
Divine, Silas R., Loch Sheldrake, N. Y., assignor to Rend Rock Powder Company, of New Jersey. Explosive compound	289,762	Dec. 4	486	.....	25	971
Divine, Silas R., Loch Sheldrake, N. Y., assignor to Rend Rock Powder Company, of New Jersey. Explosive compound	289,763	Dec. 4	486	.....	25	971
Divine, Silas R., Loch Sheldrake, N. Y., assignor to Rend Rock Powder Company, of New Jersey. Blasting-cartridge	289,764	Dec. 4	487	.....	25	971
Divine, Silas R., Loch Sheldrake, N. Y., assignor to Rend Rock Powder Company, of New Jersey. Composition for preparing explosive compounds	289,765	Dec. 4	488	.....	25	971
Divine, Silas R., Loch Sheldrake, and A. C. Rand, New York, N. Y., assignors to Rend Rock Powder Company, of New Jersey. Preparing blasting-cartridges	289,761	Dec. 4	484	136	25	971
Dixey, John, Michigan City, Ind. Stock-car	279,358	June 12	933	261	23	2291
Dixon, Breckon. (See Dixon, Henry and B.)						
Dixon, Charles A., assignor to R. Whitehill, Newburg, N. Y. Steam-condenser	276,526	Apr. 24	2126	591	23	1614
Dixon, Charles W. (See Griffin and Dixon.)						
Dixon, David A., St., Louis, Mo., assignor to C. S. Osborne & Co., Newark, N. J. Lap shaving and splitting machine	274,921	Apr. 3	45	11	23	1233

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Dixon, Henry and B., Nottawasaga, Simcoe county, Ontario, Canada. Machine for driving fence-posts	281,848	July 24	1911	522	24	352
Dixon, Henry M., New York, N. Y. Pipe-clamp	288,035	Nov. 6	310	87	25	560
Dixon, John W., Philadelphia, Pa. Apparatus applicable to the manufacture of paper-pulp	276,162	Apr. 24	1666	460	23	1536
Dixon, John W., Philadelphia, Pa. Apparatus for the reduction of paper-pulp	276,163	Apr. 24	1667	460	23	1536
Dixon, Robert H., Chicago, Ill. Traction-wheel for harvesters	271,612	Feb. 6	35	9	23	446
Dixon, William B., Springfield, Mass. Car-wheel	286,183	Oct. 9	497	137	25	103
Doan, William, Blissfield, Mich. Road-scraper	282,862	Aug. 7	465	131	24	582
Doane, David S. G., *et al.* (See Dudley, Dana, assignor.)						
Doane, William H., Cincinnati, Ohio. Sand-paper machine	273,970	Mar. 13	935	257	23	1002
Doane, William H., Cincinnati, Ohio. Carriage-support for tenoning-machines	285,586	Sept. 25	1740	492	24	1227
Doane, William H., and G. W. Bugbee, Cincinnati, Ohio. Machine-table	272,220	Feb. 13	786	218, 219	23	588
Doane, William H., and G. W. Bugbee, Cincinnati, Ohio. Spoke tenoning and throating machine	276,009	Apr. 17	1469	405	23	1495
Doane, William H., and G. W. Bugbee, Cincinnati, Ohio. Machine for planing wheel-fellies	285,587	Sept. 25	1741	492, 493, 494	24	1227
Doane, William H. H., Morganville, Kans. Fire-escape	285,471	Sept. 25	1607	451	24	1202
Dobbins, Horace G. (See Thornton, James, assignor.)						
Dobbs, Charles G., New York, N. Y. Garment-fastener	276,367	Apr. 24	1925	533	23	1580
Dobson, Benjamin A., Bolton, county of Lancaster, England. Mechanism for vibrating the fly or doffer combs of carding-engines	280,805	July 10	586	163, 164	24	110
Dobson, Isaac F. (See Laskey, John H., assignor.)						
Dobyne, James B., and R. S. Fleming, Chicago, Ill. Neck-yoke	281,250	July 17	1143	315	24	215
Dockum, Thomas, Brooklyn, N. Y. Rocket and whip	288,985	Nov. 27	1498	415	25	793
Dodd, William H., Eldred, Pa. Buckle	273,476	Mar. 6	306	83	23	885
Dodge, Caleb K., Niles, Mich. Locomotive ash-pan	270,541	Jan. 9	879	255	23	182
Dodge, Charles S., Lowell, Mass. Shoddy-picker	287,108	Oct. 23	1685	461	25	326
Dodge, Cyrus A., Syracuse, N. Y. Clothes-washer	280,915	July 10	710	199, 200	24	132
Dodge, Daniel R., Niles, Mich. Wheel-plow	278,519	May 29	2495	681	23	2085
Dodge, Edwin L., Somerville, Mass. Smoke-consuming stove	285,397	Sept. 25	1520	428	24	1186
Dodge, James, Newark, N. J. Apparatus for grinding sheet-metal scrap	288,625	Nov. 20	1054	290	25	706
Dodge, Jasper N., Detroit, Mich. Fish-net	270,641	Jan. 16	1006	290	23	213
Dodge, John A., Somerville, Mass. Wrench	274,113	Mar. 20	1122	309	23	1041
Dodge, John A., Somerville, assignor to Dodge Skate Company, Boston, Mass. Skate	286,792	Oct. 16	1272	344	25	246
Dodge, Miles B., San Francisco, Cal. Ore and rock crusher	273,477	Mar. 6	307	83	23	886
Dodge, Miles B., San Francisco, Cal. Rock-crusher	273,478	Mar. 6	308	83	23	886
Dodge, Miles B., San Francisco, Cal. Dry-ore separator	279,640	June 19	1280	355, 356	23	2356
Dodge, Miles B., San Francisco, Cal. Separator for wet ores	279,641	June 19	1282	356	23	2356
Dodge Skate Company. (See Dodge, John A., assignor.)						
Dodge, Theodore A., trustee. (See Addy, Charles J., assignor.)						
Dodge, Thomas H., Worcester, Mass. Support and guard for wire fences	275,607	Apr. 10	968	263	23	1400
Dodge, Thomas H., Worcester, Mass. Cotton-bale tie	280,725	July 3	465	133	24	83
Dodge, Thomas H., Worcester, Mass. Lightning-rod	282,449	July 31	2686	737	24	489
Dodge, Thomas H., Worcester, Mass. Support and guard for fencing	285,979	Oct. 2	249	71	25	48
Dodge, Thomas H., Worcester, Mass. Lightning-conductor	289,076	Nov. 27	1614	446	25	812
Dodge, Thomas H., Worcester, Mass. Rolling wire rods and apparatus therefor	290,002	Dec. 11	786	221	25	1032
Dodge, Ulysses E., Fredonia, N. Y. Ash-sifter	279,724	June 19	1380	385	23	2373
Dodge, Wallace H., Mishawaka, Ind. Band-pulley	276,230	Apr. 24	1744	483	23	1549
Dodge, Wallace H., Mishawaka, Ind. School-desk	286,504	Oct. 16	1023	277	25	202
Dodge, William F., Bloomfield, Iowa. Harrow	273,479	Mar. 6	308	83	23	886
Dodge, William P., Prospect, and J. Cummings, Jr., Utica, N. Y. Coat	289,236	Nov. 27	1801	499	25	847
Dods, Henry, and F. Hindes, Virginia City, Nev. Cable-grip apparatus	290,003	Dec. 11	789	222	25	1032
Dodson, Carrolton, Fall River, Kans. Washing-machine	277,243	May 8	914	245	23	1789
Dodson, Silas, New York, N. Y. Disintegrating-machine	274,574	Mar. 27	1732	481	23	1154
Dodson, Silas, Rochester, N. Y. Grain-decorticator	277,998	May 22	1815	496	23	1957
Dodson, Wilson P., Philadelphia, Pa. Railway-switch	287,810	Nov. 6	23	8	25	511
Dodsworth, Caleb, and P. Burke, Cincinnati, Ohio. Device for heating and cooling mashes	271,692	Feb. 6	127	35	23	462
Doe, George W., Fairhaven, Mass. Loom-shuttle	271,433	Jan. 30	1998	577	23	401
Doerr, John H. (See Wigmore, William H., assignor.)						
Doerr, John H., Camden, N. J., and W. H. Wigmore, Philadelphia, Pa. Curtain-bracket for sleeping-cars	275,164	Apr. 3	366	101	23	1289
Doherty, Annie M., administratrix. (See Doherty, Frank.)						
Doherty, Charles. (See Prier, Doherty, and Everett.)						
Doherty, Fisher, and E. L. Sies, Crawfordsville, Ind. Two-wheeled vehicle	286,184	Oct. 9	498	137	25	103
Doherty, Frank, deceased, (A. M. Doherty administratrix,) Columbus, Ohio. Pipe-coupling for water and gas pipes and mains	284,285	Sept. 4	157	43	24	931
Doherty, Patrick J., Chelsea, Mass. Skate	279,359	June 12	935	261	23	2291
Doherty, William A., and C. G. Van Sickel, Muskegon, Mich. Crosscut-sawing machine	280,457	July 3	151	41	24	28
Doherty, William C., Sacramento, Cal. Fruit-drier	277,013	May 8	626	164	23	1739
Doig, William S. (See Smith and Doig.)						
Dolan, Edward J., Philadelphia, Pa. Sheet-metal press	271,044	Jan. 23	1503	433, 434	23	306
Dolan, Edward J., Philadelphia, Pa. Seaming-press	286,283	Oct. 9	639	171	25	126
Dolbear, Amos E., Somerville, Mass., assignor, by mesne assignments, to Dolbear Electric Telephone Company, of New Jersey. Telephone	288,215	Nov. 13	523	146	25	608
Dolbear Electric Telephone Company. (See Dolbear, Amos E., assignor.)						
Dolbeer, John, San Francisco, Cal. Logging-engine	290,755	Dec. 25	1768	488	25	1220
Dolbeer, John, San Francisco, Cal. Logging-locomotive	290,756	Dec. 25	1769	488, 489	25	1220
Dolberg, Rudolph. (See Wienke, Carl F. A., assignor.)						
Dolby, Thomas G. F., Dulwich, England. Closing cans	284,398	Sept. 4	293	82	24	953
Dole, Joseph L. (See Wilkins and Dole.)						
Dolen, John M., Wiconisco, Pa. Safety attachment for dampers	286,400	Oct. 9	784	211	25	153
Doll, Arnold, Cleveland, Ohio. Egg and flour mixer	270,642	Jan. 16	1007	290	23	213
Doll, Henry C. (See Robertson and Doll.)						
Dollison, Levi P., Wabash, Ind. Lubricator	270,762	Jan. 16	1162	332	23	242
Dolman, John H., Albany, Tex. Separator for pecan and other nuts	271,815	Feb. 6	279	77	23	490
Dolman, William H., St. Helen, Oreg. Fire-proof building	286,401	Oct. 9	784	212	25	153
Dolph, Edwin W., Bridgeport, Conn. Foot-rest	271,434	Jan. 30	1999	577	23	401

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Don, William, New York, assignor to W. White, White Plains, N. Y. Seat for street-cars.	287,644	Oct. 30	2372	640	25	460
Don, William, New York, assignor to W. White, White Plains, N. Y. Car-spring support.	288,779	Nov. 20	1245	342	25	739
Don, William, New York, assignor to W. White, White Plains, N. Y. Car-axle box	288,780	Nov. 20	1246	342	25	739
Donahoe, John J., and P. J. Finn, New Orleans, La. Window-shutter opener	270,027	Jan. 2	237	68	23	49
Donahue, Joseph I., Brooklyn, N. Y. Mucilage-wafer	276,164	Apr. 24	1668	460	23	1536
Donalds, John, Stillwater, Minn. Attachment for logging-sleds	289,815	Dec. 11	552	154	25	989
Donaldson Brothers. (See De Meza, Wilson, assignor.)						
Donaldson Brothers. (See De Quillfeldt, Charles, assignor.)						
Donaldson, George W. (See Hussey, Levi, assignor.)						
Donaldson, James A., Greenville, Pa. Apparatus for administering nitrous-oxide gas	282,178	July 31	2344	646	24	428
Donaldson, Robert R., *et al.* (See Shiver, Elisha, assignor.)						
Donaldson, Sven, Texarkana, Tex. Hay and cotton press	279,546	June 19	1175	325	23	2337
Donegan, William, Chicago, Ill. Adjustable balcony	273,823	Mar. 13	759	206	23	972
Donlon, William, Eden Prairie, Minn. Stock-releasing device	289,398	Dec. 4	31	10	25	892
Donnell & Co., J. F. (See Schwintzer and Graff, assignors.)						
Donnell, Edward P. (See Partridge, Alfred, assignor.)						
Donnell, Edward P., Chicago, Ill. Roller book-backing machine	276,787	May 1	336	89	23	1684
Donnell, Edward P., Chicago, Ill. Paper-cutting machine	290,004	Dec. 11	790	222	25	1032
Donnelly, Charles J., Philadelphia, Pa. Match-machine	270,403	Jan. 9	697	206	23	146
Donnelly, Matthias, *et al.* (See Elliott, Charles W., assignor.)						
Donnelly, William E., assignor to T. Simmons, Cleveland, Ohio. Hemstitching attachment for sewing-machines	288,036	Nov. 6	311	88	25	561
Donnenwerth, John G., Browning, Mo. Oiling cylinders of steam-engines	288,037	Nov. 6	311	88	25	561
Donoghue, William, assignor to D. Garrison and G. C. Reukauff, Philadelphia, Pa. Ward-robe-bedstead	273,480	Mar. 6	309	84	23	896
Donovan, Albert, *et al.* (See Beucus, Cephus, assignor.)						
Donovan, David H. (See Briggs, Orlando P., assignor.)						
Donovan, George L., assignor to C. Rogers & Bros., Meriden, Conn. Mirror-hinge	285,239	Sept. 18	1329	374	24	1147
Donovan, John E, Cincinnati, Ohio. Self-belting pulley	270,028	Jan. 2	238	69	23	49
Donovan, John E., Cincinnati, Ohio. Clothes wringer	275,165	Apr. 3	367	101	23	1290
Donovan, John E., Cincinnati, Ohio. Pattern for producing castings	275,166	Apr. 3	368	101	23	1290
Donovan, John E., Cincinnati, Ohio. Vapor-burner	283,977	Aug. 28	1824	515	24	855
Donovan, Will, *et al.* (See Beucus, Cephus, assignor.)						
Doody, James. (See Hill and Doody.)						
Dooley, Thomas B., assignor to J. Souther, Boston, Mass. Printing-press	286,689	Oct. 16	1147	309	25	224
Doolittle, D. Edward. (See Doolittle, William E. and D. E.)						
Doolittle, George. (See Stanley and Doolittle.)						
Doolittle, George, and H. D. Stanley, Bridgeport, Conn. Machine for confining strands	289,077	Nov. 27	1614	447	25	813
Doolittle, George W., Kansas City, Mo. Grinding-mill	276,570	May 1	34	9, 10	23	1633
Doolittle, Harrison, Plain City, Ohio. Harrow	283,083	Aug. 14	726	203	24	636
Doolittle, James E., and H. C. Sherwood, assignors to I. W. Birdseye & Co., Bridgeport, Conn. Corset	273,042	Feb. 27	1849	518	23	785
Doolittle, John H., Greystone, Conn. Crochet-needle	287,109	Oct. 23	1686	462	25	326
Doolittle, Oscar B. (See McCarthy and Cumming, assignors.)						
Doolittle, William E. and D. E., assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Machine for putting nuts on bolts	280,298	June 26	2070	{582 583}	{23 23}	2501
Dooner, John, San Francisco, Cal. Blackboard-rubber	283,870	Aug. 28	1695	477	24	830
D'Opdorp, Fçois. P., Brussels, Belgium. Advertising letter-paper and envelope	290,179	Dec. 11	988	279	25	1069
Dopp, H. William, Buffalo, N. Y. Soap remelting and crutching apparatus	265,736	Sept. 25	1933	{547 548}	{24 24}	1261
Dopp, Henry W., Buffalo, N. Y. Jacketed steam-kettle for rendering fats, boiling soap, and for other uses	287,424	Oct. 30	2081	565	25	404
Dorchester, Daniel, Jr., *et al.* (See Murray, James W., assignor.)						
Dorflinger, Louis J. (See O'Connor, John S., assignor.)						
Dorin, James L., Brooklyn, N. Y. Toy house	282,965	Aug. 14	580	164	24	610
Döring, Julius A., Leipsic, Germany. Sewing-machine	284,190	Sept. 4	38	10, 11	24	911
Dorn, Rudolf, Omaha, Nebr. Medical compound for horses, &c	275,472	Apr. 10	803	.....	23	1371
Dorr, H. A. (See Baldwin, Marcellus O., assignor.)						
Dorr, H. A. (See Haynes, Thomas, assignor.)						
Dorr, Herbert C., San Francisco, Cal. Hand-stamp	283,593	Aug. 21	1346	376	24	756
Dorr, Robert E. A., and T. Williams, Philadelphia, Pa. Printer's galley	288,038	Nov. 6	312	88	25	561
Dorrance, Charles J. (See Lockwood, William C., assignor.)						
Dorrell, Thomas B. (See Wood and Dorrell.)						
Dorsett, Daniel H., Chicago, Ill. Mold for casting pipe of plastic material	284,191	Sept. 4	39	11, 12	24	911
Dorsey Machine Company. (See Remy, Noah T., assignor.)						
Doten, Charles C., Plymouth, Mass. Type-case	278,782	June 5	146	43	23	2147
Dotterer, Thomas D., Charleston, S. C. Manufacture of sulphuric acid	270,763	Jan. 16	1164	333	23	242
Dotts, Thomas J., Reading, Pa. Automatic shutter-fastener	273,265	Mar. 6	26	8	23	839
Doty, Duane, Berlin, Wis. Machine for making whips	270,029	Jan. 2	238	69	23	49
Doty, George L., Middletown, Ohio. Brick-mold bumper and palette-holder combined	284,727	Sept. 11	703	197	24	1029
Doty, James M., Columbus, Ohio. Truck	285,588	Sept. 25	1744	494	24	1228
Doty, Riley, Leonardsburg, Ohio. Valve for steam-engines	283,978	Aug. 28	1826	515	24	855
Doty, Riley, Leonardsburg, Ohio. Slide-valve	285,737	Sept. 25	1935	548	24	1261
Doty, William M., Chicago, Ill. Washing-machine	282,615	Aug. 7	169	51	24	530
Doubleday, Henry H., trustee. (See Doubleday, William B., assignor.)						
Doubleday, William B., Binghamton, N. Y., assignor to H. H. Doubleday for himself and as trustee, Washington, D. C. Device for attaching reels to fishing-rods	285,346	Sept. 18	1449	408	24	1168
Doud, Wesley E., Eureka, Kans. Rubber cement for the manufacture of memorandum-blocks and tablets	285,980	Oct. 2	250	.....	25	48
Dougan, John B. (See Clark, Alvin B., assignor.)						
Dougherty, Andrew, Brooklyn, N. Y. Playing-card	278,412	May 29	2364	646	23	2061
Dougherty, George P., Independence, Mo. Car-coupling	273,481	Mar. 6	310	84	23	886
Dougherty, James H. (See Briggs and Dougherty.)						
Dougherty, James H., Whistler, Ala. Device for bending and shaping the ends of bars	281,470	July 17	1416	389	24	262
Dougherty, Michael J., assignor of one-half to J. Burnett and E. McHale, Carbondale, Pa. Car-coupling	290,005	Dec. 11	791	222	25	1033
Dougherty, Philip, Fort Dodge, Iowa. Corn-planting attachment for plows	290,006	Dec. 11	792	223	25	1033
Dougherty, Tiberias, Philadelphia, Pa. Excavating apparatus	283,703	Aug. 21	1482	{417 418}	{24 24}	782
Doughty, Henry C., Gray, and D. Hall, Auburn, Me. Latch	281,036	July 10	860	239	24	159
Dougine, James T., Chicago, Ill. Cleaning sewers	287,811	Nov. 6	25	8, 9	25	512
Douglas, Campbell M., Quebec, Quebec, Canada. Folding boat	285,981	Oct. 2	251	71	25	48
Douglas, Charles, Detroit, Mich. Broom	283,979	Aug. 28	1826	515	24	855
Douglas, Charles B., Troy, Ala. Sulky-plow	273,971	Mar. 13	936	{257 258}	{23 23}	1002

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Douglas, Charles H., Chicago, Ill. Circular saw	274,922	Apr. 3	46	12	23	1233
Douglas, John B., assignor to Newsham, Nock & Douglas, Philadelphia, Pa. Pipe cutting and threading machine	273,348	Mar. 6	141	39, 40	23	857
Douglas, Joseph W., Middletown, Conn. Combined drill or reamer, tap, and socket	279,360	June 12	936	261	23	2291
Douglas, Joseph W., Middletown, Conn. Cutter and holder for lathes	280,146	June 26	1884	530	23	2468
Douglas, Joseph W., Middletown, Conn. Cutter and holder for lathes, &c	280,147	June 26	1885	530	23	2469
Douglas, Joseph W., Middletown, Conn. Cutter and holder for lathes, &c	280,148	June 26	1887	531	23	2469
Douglas, Silas H., Ann Arbor, Mich. Hydrocarbon-burner	272,863	Feb. 27	1634	457	23	749
Douglass, James N., Dulwich, county of Surrey, England. Burner for gas or oil	290,545	Dec. 18	1485	411	25	1163
Douglass, John, Brooklyn, N. Y. Metallic hub	287,645	Oct. 30	2374	640	25	460
Douglass, John L., Belleville, N. J. Increasing the flow and delivery of liquids	286,183	Oct. 9	499	138	25	103
Douglass, Samuel W., assignor to American Diamond Rock Boring Company, New York, N. Y. Expansion rotary drill	274,740	Mar. 27	1919	535	23	1189
Douglass, Samuel W., assignor to J. B. Edson, New York, N. Y. Process of and apparatus for the formation of deep wells	290,546	Dec. 18	1486	411	25	1163
Douty, William H. (See Brock, William M., assignor.)						
Dover, Samuel B., Dayton, Ohio. Straight-way valve	284,122	Aug. 28	2027	564	24	889
Dover, Samuel B., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Apparatus for extracting oil from oleaginous seeds, &c	270,291	Jan. 9	550	162	23	117
Dow, Charles H., and W. H. Chandler, Virginia City, Nev., assignors of one-half to W. A. Shreves, Bordentown, and M. L. Justin, Jersey City, N. J. Process of grinding and apparatus for amalgamating ores	282,863	Aug. 7	466	132	24	583
Dow, Christopher C., assignor of one-half to H. Hovey, Camden, N. J. Marine-engine governor	279,861	June 19	1538	430	23	2400
Dow, Hiram A., Cincinnati, Ohio. Vapor-stove	288,216	Nov. 13	524	146	25	608
Dow, Lorenzo, Boston, Mass., assignor to American Iron Post and Construction Company, of New York. Wire fence. (Reissue)	10,362	Aug. 7	554	156	24	599
Dowd, Daniel, Larue, Ohio. Cutting and feeding attachment for thrashing-machines	279,725	June 19	1380	385	23	2373
Dowd, Daniel, Larue, Ohio. Band-cutter and feeder for thrashing-machines	290,547	Dec. 18	1489	412	25	1164
Dowdell, Seleta C., La Salle, Tex. Pan-cover	287,425	Oct. 30	2083	566	25	404
Dowens, Harrison, New York, N. Y. Automatic correcting device for thermostats	270,643	Jan. 16	1008	291	23	213
Dowens, Harrison, New York, N. Y. Correcting attachment for automatic heat-alarms	273,349	Mar. 6	142	40	23	858
Dowling, Daniel E., New York, N. Y. Feed mechanism for roller-mills	289,518	Dec. 4	183	51	25	918
Dowling, Robert H., assignor of one-half to C. H. Follett, Newark, Ohio. Car-coupling	281,963	July 24	2071	568	24	379
Dowling, Thomas, Gloucester, Mass. Pump	279,923	June 26	1616	454	23	2421
Down, William H., *et al.* (See Burton, Joseph, assignor.)						
Downe, James R., *et al.* (See Burns and Buckman, assignors.) (Reissue.)						
Downes, Charles L. (See Kerner and Downes.)						
Downes, George W., New York, N. Y. Door-spring	278,783	June 5	147	43	23	2147
Downie, Alexander F. (See Nute, John H., assignor.)						
Downie, George, Salinas, Cal. Incrustation preventive	277,122	May 8	773	.....	23	1764
Downie, Robert M., Fallston, Pa. Apparatus for cooling water	285,472	Sept. 25	1607	451	24	1202
Downie, William. (See Southack, Cyprian F., assignor.)						
Downing, Burton J., Seely, Kans. Hen's nest	271,318	Jan. 30	1843	535	23	379
Downing, Henry M., Enfield, Mass. Folding clothes-rack	284,286	Sept. 4	158	43	24	931
Downing, James H., Lane, Kans. Fire-escape	290,007	Dec. 11	793	223	25	1033
Downing, James L., Richmond, Ill. Hand truck	284,619	Sept. 11	563	159	24	1006
Downing, Jerome F., Erie, Pa. Child's carriage	286,186	Oct. 9	500	138	25	103
Downing, John C. (See Kellcr, Adam, assignor.)						
Downs, Benjamin J., *et al.* (See Payne, Newton W., assignor.)						
Dowse, William B., Boston, Mass. Cloak	272,537	Feb. 20	1200	335	23	664
Dowse, William B., Boston, Mass. Circular cloak	277,014	May 8	628	165	23	1740
Dowson, Joseph E., Westminster, London, England. Apparatus for the manufacture of gas	278,107	May 22	1939	532	23	1980
Doxsie, George W., assignor to himself and E. Shay, Haring, Mich. Logging-wheel	273,043	Feb. 27	1850	518	23	766
Doyle, Edward L., Lynn, Mass., and G. S. Burr, Montezuma, Colo.; said Burr assignor of one-half to said Doyle. Ore-concentrator	290,008	Dec. 11	794	223	25	1033
Doyle, John, Hoboken, N. J., assignor to himself and C. C. Dusenbury, White Plains, N. Y. Hand-protector	276,231	Apr. 24	1745	484	23	1549
Doyle, John, Hoboken, N. J., assignor to himself and C. C. Dusenbury, White Plains, N. Y. Game apparatus	281,348	July 17	1262	351	24	236
Doyle, John H., Hillsborough, Ohio. Dental lip and tongue holder	278,520	May 29	2496	681	23	2085
Doyle, John J., Chicago, Ill., assignor to Schollhorn & Tiesing Manufacturing Company, New Haven, Conn. Flap for carriage-doors	285,240	Sept. 18	1330	375	24	1147
Doyle, Richard, Grand Rapids, Mich. Book-binder's clamp	272,864	Feb. 27	1635	457	23	749
Doyle, Thomas, San Francisco, Cal. Horseshoe	271,228	Jan. 30	1730	501	23	353
Doyle, Thomas H., Norwich, N. Y. Whisk or other broom holder	274,471	Mar. 27	1583	434	23	1130
Doyle, William L., Buffalo, N. Y. Railway-signal	285,589	Sept. 25	1745	{494 495	{24	1228
Dozier, Lewis D., St. Louis, Mo. Sheet-metal packing-box	279,726	June 19	1381	385	23	2373
Drainage Construction Company. (See Waring, George E., Jr., assignor.)						
Drake, Charles C., Trenton, N. J. Telephone and telegraph protector	290,916	July 10	711	200	24	132
Drake, Charles W., Pittsburg, Pa. Attachment for screw-drivers	290,218	Dec. 18	1049	295	25	1088
Drake, Edward P., *et al.* (See Aldrich, Hosea I., assignor.)						
Drake, George D., *et al.* (See Heyl, Frederick, assignor.) (Reissue.)						
Drake, James A. (See McNeely and Drake.)						
Drake, James H., St. Paul, Minn., and D. G. Weems, Chicago, Ill. Composite stone	273,824	Mar. 13	760	.....	23	972
Drake, John B., Goshen, Ind. Pump	282,864	Aug. 7	467	132	24	583
Drake, John B., Goshen, Ind. Pump	285,241	Sept. 18	1331	375	24	1147
Drake, John T. H., Emporia, Mo. Sawing-machine	280,149	June 26	1888	531	23	2469
Drake, Mahlon S., *et al.* (See Heyl, Frederick, assignor.) (Reissue.)						
Drake, Mahlon S., Newark, N. J. Orange-clipper	278,108	May 22	1941	532	23	1980
Drake, Mahlon S., assignor to J. J. Walton, Newark, N. J. Hanging book-shelves	275,027	Apr. 3	195	51	23	1258
Drake, Nathaniel, *et al.* (See Heyl, Frederick, assignor.) (Reissue.)						
Drake, Robert, Newark, N. J. Hat felting machine	270,292	Jan. 9	552	162	23	118
Drake, Robert, Newark, N. J. Hatter's tank	279,547	June 19	1175	326	23	2337
Drake, Warren W., Girard, Ohio. Fire-escape	275,608	Apr. 10	969	263	23	1400
Draper, Charley A., Centralia, Ill. Billet and buckle fastener	289,816	Dec. 11	553	155	25	990
Draper, Charles T., assignor to L. C. Beardsley & Co., Cleveland, Ohio. Tilting can	274,923	Apr. 3	47	12	23	1233
Draper, John B., Zanesville, Ill. Car-coupling	287,110	Oct. 23	1687	462	25	326
Draper, Luther M., Plainwell, Mich. Gate-hinge	276,165	Apr. 24	1669	461	23	1536
Draper & Sons, George. (See Allen, George H., assignor.)						
Draper & Sons, George. (See Carroll, William T., assignor.)						
Draper & Sons, George. (See Chase, Horace P., assignor.)						
Draper & Sons, George. (See Fay, Rimmon C., assignor.)						
Draper & Sons, George. (See Gray, James R., assignor.)						
Drawbaugh, Daniel, Eberly's Mill, Pa. Telephone-transmitter	272,865	Feb. 27	1636	458	23	749

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly. volume. Spec.	Monthly. volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Drawbaugh, Daniel, Eberly's Mill, Pa. Speaking-trumpet for receiving-telephones	272,866	Feb. 27	1639	458	23	749
Drawbaugh, Daniel, Eberly's Mill, Pa. Telephone	290,978	Dec. 25	2057	566	25	1267
Drawbaugh, Daniel, Eberly's Mill, Pa. Telephone	290,979	Dec. 25	2058	566	25	1268
Drawbaugh, Daniel, Eberly's Mill, Pa. Telephone-transmitter	290,980	Dec. 25	2059	566	25	1268
Drawbaugh, Daniel, Eberly's Mill, Pa., assignor to People's Telephone Company, of New York. Electric signaling apparatus for telephone-lines	276,136	Apr. 17	1630	449	23	1522
Drawbaugh, Daniel, Eberly's Mill, Pa., assignor to People's Telephone Company, of New York. Telephone-transmitter	276,137	Apr. 17	1631	449	23	1522
Drawbaugh, Daniel, Eberly's Mill, Pa., assignor to People's Telephone Company, of New York. Telephone-repeater	287,111	Oct. 23	1689	462 / 463	25	326
Drawbaugh, Daniel, Eberly's Mill, assignor of one-half to E. W. Chellis, Harrisburg, Pa. Hydraulic jack	288,697	Nov. 20	1145	315	25	721
Dredge, Edgar, Hoxton, county of Middlesex, assignor of one-half to Beath, Schiess & Co., London, England. Band-knife cloth-cutting machine	280,017	July 10	712	200	24	132
Dreiser, John, New York, N. Y. Fishing-reel	283,084	Aug. 14	726	203	24	636
Drennon, Robert H., *et al.* (See Kirkbride, Frederick L., assignor.)						
Drennon, Robert H., *et al.* (See Spooner, Samuel P., assignor.)						
Drescher, Henry, New York, N. Y. Feed-bag	285,117	Sept. 18	1186	332	24	1121
Dresdner, Isidor, Brooklyn, N. Y. Fur-plucking machine	269,838	Jan. 2	23	7	23	7
Drew, Harry E., *et al.* (See Wishard, Lucinda B. J., assignor.)						
Drew, Walter F., Sacramento, Cal. Hand-rake	286,120	Oct. 2	417	114	25	77
Drew, William E., Richmond, Va. Car-coupling	277,690	May 15	1446	390	23	1886
Drew, William H., assignor to himself and S. Fildes, La Porte, Ind. Carpet-stretcher	277,015	May 8	628	165	23	1740
Dreyer, Johann H., assignor to C. Koster, New York, N. Y. Fire-proof ceiling or floor	273,825	Mar. 13	761	206	23	972
Dreyfus, Achille, New York, N. Y. Apparatus for treating argols in the manufacture of cream of tartar	277,016	May 8	629	165 / 166	23	1740
Dreyfus, Henry, assignor to Lorsch, Dreyfus & Co., Providence, R. I. Button	277,999	May 22	1816	496	23	1958
Dreyfuss, Bernard, New York, N. Y. Advertising-card	270,764	Jan. 16	1165	333	23	242
Dreyfuss, Isidor. (See Helmus and Dreyfuss.)						
Drillinger, James R., Terre Haute, Ind. Sliding door	290,757	Dec. 25	1771	489	25	1221
Drinkaus, Phillipp, Jr., Detroit, Mich. Rotary stamping-machine	283,671	Aug. 28	1696	478	24	830
Driscoll, Daniel P., Pittsburg, Pa., and J. H. Dugan, Dennison, Ohio. Switch-lock	271,435	Jan. 30	1999	577	23	401
Driscoll, Lawrence J., Somerville, assignor to A. M. Lougee, Boston, Mass. Machine for sewing on buttons	290,981	Dec. 25	2060	567	25	1268
Driver, Samuel, Providence, R. I. Feeding mechanism for carding-machines	290,758	Dec. 25	1772	489	25	1221
Drouin, Alexis, Paris, France. Extracting metals	290,548	Dec. 18	1490	.....	25	1164
Drown, William A. (See Powell, John B., assignor.)						
Drum, Edgar M. (See Yeoman and Drum.)						
Drummond, Frank H., Bangor, and T. Jenkins, Jr., Howard, Me. Boring-machine	289,817	Dec. 11	554	155	25	990
Drummond, George, Jr., Philadelphia, Pa. Device for holding spigots, &c	285,590	Sept. 25	1747	495	24	1228
Dryden, Caelius O., *et al.* (See Sauter, Charles, assignor.)						
Dryer, Bernhard A., New York, N. Y. Conduit for electric wires	288,555	Nov. 13	963	265	25	683
Dryfoos, Alphons, New York, N. Y. Combined trunk and wardrobe	282,665	Aug. 7	469	132	24	583
Drysdale, William A., Philadelphia, Pa. Electric gas-lighter	281,471	July 17	1418	389	24	202
Du Barry, Edmund L. (See Stevens and Du Barry.)						
Du Bois, Addison, New York, N. Y. Guard-gate for cars	269,839	Jan. 2	25	8	23	7
Du Bois, B. F. (See Shive, David, assignor.)						
Du Bois, Frederick N., New York, N. Y. Plumber's trap	287,510	Oct. 30	2187	594	25	424
Du Bois, George W., Wilmington, Del. Pocket-knife	280,150	June 26	1888	531	23	2469
Du Bois, John. (See Lutz, W. Clay, assignor.)						
Du Bois, John, Du Bois, Pa. Dam and lock	282,062	July 31	2173	596 / 597	24	402
Du Bois, Josiah S., Camden, N. J. Underground conduit for electric wires	272,221	Feb. 13	789	219	23	589
Du Bois, Josiah S., Camden, N. J. Boiler-feeder	280,364	July 3	30	8	24	7
Du Bois, Josiah S., Camden, N. J. Underground conduit	287,509	Oct. 30	2186	594	25	424
Du Bois, William A., assignor of one-half to C. O. Hale, Chicago, Ill. Bale-tie fastening	290,549	Dec. 18	1491	412	25	1164
Du Brul, Napoleon, Cincinnati, Ohio. Cigar coloring and flavoring machine	274,472	Mar. 27	1584	435	23	1130
Du Four, Joseph L. M., Bound Brook, N. J. Wheel toy	278,109	May 22	1942	533	23	1980
Du Shane, James, South Bend, Ind. Bolt for chilled mold-boards	274,743	Mar. 27	1926	536	23	1190
Du Shane, James, South Bend, Ind. Electric-arc lamp	274,744	Mar. 27	1926	536	23	1190
Du Shane, James, South Bend, Ind. Conduit for underground electric wires	280,919	July 10	716	201	24	133
Du Shane, James, South Bend, Ind. Dynamo-electric machine	290,550	Dec. 18	1492	412	25	1164
Dubler, John B., Philadelphia, Pa. Oil-stiu	283,471	Aug. 21	1214	341	24	731
Dublin Agricultural Company. (See Floyd, Halleck, assignor.)						
Dubois, Alexandre N., Philadelphia, Pa. Dyeing aniline-black	283,220	Aug. 14	893	.....	24	666
Dubois, Alexander N., Philadelphia, Pa. Mordant for aniline-black	287,112	Oct. 23	16'0	.....	25	327
Dubreuil, George A., Baltimore, Md. Shirt	273,826	Mar. 13	762	206	23	973
Ducat, Henry A., Portage, Wis. Leg and foot protector	274,114	Mar. 20	1123	309	23	1041
Duchemin, William, assignor to W. S. Butler, Boston, Mass. Plaiting-machine	288,929	Nov. 20	1425	392 / 393	25	773
Ducker, William M. (See Anthony, Frank H., assignor.)						
Duckworth, James, and E. Smith, Springfield, Mass. Combined protractor, square, and bevel	282,966	Aug. 14	581	165	24	611
Ducro, Gregory, Buffalo, N. Y. Bottle-stopper	270,765	Jan. 16	1165	333	23	243
Dudgeon, Richard (See Dettmar John F., assignor.)						
Dudgeon, Richard. (See Tanner, John C., assignor.)						
Dudley, Augustus C., Nashville, Tenn. Feather-renovator	270,030	Jan. 2	240	70	23	49
Dudley, Charles B., Altoona, Pa. Making soda-lime	272,127	Feb. 13	682	.....	23	570
Dudley, Charles B., Altoona, Pa. Purifying waters for boiler use	283,472	Aug. 21	1215	.....	24	731
Dudley, Charles B., Altoona, Pa. Purifying feed-water	285,591	Sept. 25	1748	495	24	1229
Dudley, Dana, Boston, assignor to D. S. G. Doane, Cohasset, Mass., and D. A. Plecker, Mount Crawford, Va. Rotary engine	282,505	Aug. 7	35	10	24	506
Dudley, Frederick, Eugene City, Oreg. Sash-fastener	283,365	Aug. 14	1085	305	24	702
Dudley, George D. (See Bisbee and Dudley.)						
Dudley, James N., Petrolia, Cal. Saw-handle	283,221	Aug. 14	893	249	24	666
Dudley, Russell G., Jersey City, N. J., assignor to Dudley Shutter Worker and Burglar Alarm Company of New York. Shutter-worker	285,347	Sept. 18	1449	408	24	1168
Dudley Shutter Worker and Burglar Alarm Company of New York. (See Dudley, Russell G., assignor.)						
Dudley, Walter J., Boston, Mass. Telephone signaling apparatus	278,322	May 29	2244	616	23	2040
Dudley, Wells W. (See Foster and Dudley.)						
Dudley, William L., Covington, Ky., and C. F. Rapp, assignors to American Iridium Company, Cincinnati, Ohio. Electric-arc lamp	271,816	Feb 6	280	77	23	490
Dueber, John C., Newport, Ky. Watch-case center	290,869	Dec. 25	1903	525	25	1243

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Dueber, John C., Newport, Ky. Watch-case center	280,870	Dec. 25	1904	525	25	1244
Duell, Charles H., *et al.* (See Bustin, John H., assignor.)						
Duell, Charles H. (See Hey, George W., assignor.)						
Düerstock, Bernard, Cincinnati, Ohio. Faucet	288,781	Nov. 20	1948	343	25	740
Duff, James, Oswego, N. Y. Production of starch, dextrine, glucose, sirup, and grape-sugar	270,210	Jan. 9	456	.....	23	100
Duff, James, Oswego, N. Y. Method of and apparatus for manufacturing starch, dextrine, glucose, sirup, grape-sugar, or spirits, beer, and vinegar	270,894	Jan. 23	1318	380	23	277
Duff, John T., assignor of one-third to J. M. Montgomery, Allegheny, Pa. Machine for flanging circular plates	274,115	Mar. 20	1124	310	23	1041
Duffield, Patricio W., New York, N. Y. Ore-concentrator	275,809	Apr. 17	1239	341	23	1453
Duffy, Charles C., Newport News, Va. Door and door attachment for grain-cars	278,695	June 5	298	86	23	2174
Duffy, Charles C., Newport News, Va. Dumping-car	279,361	June 12	938	262	23	2292
Duffy, James. (See Kidd, James E., assignor.)						
Duffy, James F., Chicago, Ill. Die for making blacksmiths' fullers	277,468	May 15	1184	318	23	1843
Duffy, Patrick, assignor to himself and J. F. Powers, New Bedford, Mass. Nut-arbor	278,696	June 5	299	87	23	2174
Duffy, Thomas W., Boston, Mass., assignor to New York Steam Company, New York, N. Y. Expansion-joint	282,967	Aug. 14	582	165	24	611
Duffy, Walter B. (See Redmond, Edmond, assignor.)						
Dufour, John B., Gallipolis, Ohio. Baby-walker	283,222	Aug. 14	894	249	24	667
Dufrane, John L. (See Nickerson and Dufrane.)						
Dugan, Joseph H. (See Driscoll and Dugan.)						
Dugan, Robert, New York, N. Y. Umbrella-fixture	276,788	May 1	336	89	23	1684
Duggan, George A. (See Wilkie and Duggan.)						
Duggan, Kevran J., Montgomery, Ala. Spike-puller	285,242	Sept. 18	1331	375	24	1147
Duke, James B., Durham, N. C. Apparatus for waxing paper	286,402	Oct. 9	785	212	25	153
Duke, James B., Durham, N. C. Waxing paper	286,403	Oct. 9	786	212	25	153
Duke, James H., Jackson, Ga. Churn	283,065	Aug. 14	727	204	24	637
Duke, Thomas, Henry, Ill. Two-wheeled vehicle	285,592	Sept. 25	1749	496	24	1229
Dulaney, James M., and T. Owens, Topeka, Kans. Car-coupling	271,045	Jan. 23	1504	434	23	307
Dull, Norman R., assignor of one-half to H. C. Canfield, Toledo, Ohio. Clip-bender	274,741	Mar. 27	1922	536	23	1189
Dumaresq, John. (See Prosser, Thomas, assignor.)						
Dumas, Anthelme, Paris, France. Distribution of water in houses	277,691	May 15	1447	390	23	1886
Dumke, Frank F., assignor to C. Borchert, W. P. Vollert, and H. Bollow, Milwaukee, Wis. Pen and pencil rack	271,817	Feb. 6	283	77	23	491
Dummer, Edward, Boston, Mass. Electrical signal	288,556	Nov. 13	964	266	25	684
Dumn, James F., *et al.* (See Hill, James F., assignor.)						
Dumont, Alexandre, Paris, France. Wind-motor	274,299	Mar. 20	1344	{369 {370	{23	1080
Dumont, James H., New York, N. Y. Railway-express indicator	275,609	Apr. 10	971	264	23	1400
Dunan, John J., Lima, Ohio. Bag-holding truck	281,472	July 17	1419	389	24	262
Dunand, Albert, Paris, France. Apparatus and system for telephonic communication	280,365	July 3	31	9	24	8
Dunbar, Henry D., North Hartland, Vt. Compound engine	276,368	Apr. 24	1926	{534 {535	{23	1580
Dunbar, John H., assignor to Clement & Dunbar, Philadelphia, Pa. Machine for forming the hooks of tub-handles	281,984	July 24	2072	568	24	380
Dunbar, John K., *et al.* (See Flint, Edward, Jr., assignor.)						
Dunbar, Junius H., assignor to himself and F. Brown, Youngstown, Ohio. Nail-plate feeder	286,121	Oct. 2	417	114	25	77
Dunbar, Junius H., assignor to himself and F. Brown, Youngstown, Ohio. Nail-plate feeder	287,368	Oct. 23	2008	546	25	383
Dunbar & Son, R. (See Gardner, Frederick A., assignor.)						
Duncan, Andrew J., Pittsburg, Pa. Soldering cylindrical articles of tinware	271,319	Jan. 30	1844	{535 {536	{23	373
Duncan, Garnett, and J. R. Evens, assignors of one-third to J. J. Haight and W. P. Cunningham, Gainesville, Tex. Stalk-cutter	281,621	July 17	1606	439	24	293
Duncan, George. (See Wilson, Duncan, and Lauder.)						
Duncan, James, London, and B. E. R. Newlands, Clyde Wharf, Victoria Docks, county of Essex, England. Manufacture and treatment of sugar and apparatus employed therein	278,110	May 22	1942	533	23	1980
Duncan, James S., Browning, Mo. Combined tub-stand and clothes-rack	270,031	Jan. 2	240	70	23	50
Duncan & Johnston. (See Deuther, Lorenz A., assignor.)						
Duncan, Joseph M., Warsaw, N. Y. Evaporator	284,952	Sept. 11	973	273	24	1077
Duncan, Mason F., and R. E. Coyle, May's Lick, Ky. Cotton, corn, and tobacco fender	290,009	Dec. 11	796	224	25	1033
Duncan, William F. (See Reiff, William H., assignor.)						
Dunckel, Edwin N., Butte City, Mont. Ter. Portable steam sawing-machine	284,620	Sept. 11	564	160	24	1006
Duncklee, Edward P. (See Green and Duncklee.)						
Dundon, Patrick F., San Francisco, Cal. Steam-boiler	281,037	July 10	861	239	24	159
Dungan, Andrew M., and M. Lacrone, Springfield, Ohio. Elevator	280,151	June 26	1889	{531 {532	{23	2469
Dungan, William H., Rock Lane, Ind. Bag-holder	286,793	Oct. 16	1275	344	25	246
Dunham, Arthur C., Winthrop, Mass. Blind-fastener	272,417	Feb. 20	1052	295	23	639
Dunham, Charles H., *et al.* (See Basford, Charles B., assignor.)						
Dunham, Frank H. (See Dunham, George and F. H.)						
Dunham, George and F. H., Olean, N. Y. Apparatus for extinguishing fires in oil-tanks	290,010	Dec. 11	796	224	25	1034
Dunham, Henry, Glen Aubrey, N. Y. Rock-drilling machine	277,244	May 8	915	245	23	1789
Dunham, John S., St. Louis, Mo. Confection	281,849	July 24	1912	.....	24	352
Dunham, John W., *et al.* (See Basford, Charles B., assignor.)						
Dunham, Joseph T., Brooklyn, N. Y. Combined tag and envelope	277,245	May 8	918	246	23	1790
Dunham, Thomas H., Boston, Mass. Insulated electrical conductor	280,366	July 3	32	9	24	8
Dunkel, Wilber R., near Macon, Ill. Automatic grain-measure	282,063	July 31	2174	597	24	402
Dunlap, John Q., Seymour, Tex. Sheep-wash	273,972	Mar. 13	938	.....	23	1002
Dunlap, William H., and J. Ketchum, Jr., Brooklyn, N. Y. Manufacture of hats	288,986	Nov. 27	1499	415	25	793
Dunlap, William H., and J. Ketchum, Jr., Brooklyn, N. Y. Hat-drying apparatus	288,987	Nov. 27	1501	415	25	793
Dunlap, William J., Flushing, Ohio. Thrashing-machine separator	271,046	Jan. 23	1506	434	23	307
Dunlop, Oliver P., Canal Winchester, Ohio. Corn-planter	283,330	Aug. 14	1035	290	24	692
Dunlop, Richard A. (See Burgwyn, William H. S., assignor.)						
Dunn, Charles W. (See Dunn, Phineas D. and C. W.)						
Dunn, George R. (See Woodlief and Dunn.)						
Dunn, Leonard F., Oneida Community, N. Y. Nickel-plating	278,784	June 5	148	.....	23	2148
Dunn, Leonard F., Oneida Community, N. Y. Manufacture of spoons and forks	280,918	July 10	714	{200 {201	{24	132
Dunn, Leonard F., Oneida Community, N. Y. Nickel-plating	289,337	Nov. 27	1925	.....	25	871
Dunn, Michael J., Philadelphia, Pa. Shoe-maker's last	273,482	Mar. 6	311	84	23	886
Dunn, Michael J., Philadelphia, Pa. Shoe-maker's last	286,794	Oct. 16	1276	345	25	246
Dunn, Phineas D. and C. W., Cleveland, Ohio. Machine for setting and gumming saws	284,192	Sept. 4	40	12	24	911
Dunn, Stanley E., Herrick Centre, Pa. Churn	271,818	Feb. 6	284	78	23	491

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dunn, Thomas H. (See Spencer and Dunn.)						
Dunn, William, assignor of two-thirds to D. B. Ruffner and G. S. Bolton, Philadelphia, Pa. Nut-fastener	270,877	Jan. 16	1292	373	23	267
Dunn, William J., assignor to himself, T. Stone, and R. C. Billington, Lewiston, Me. Picker-stick holder for looms	278,111	May 22	1945	533	23	1980
Dunn, William W., Fort Worth, Tex. Apparatus for grain-drying and coffee-roasting	284,728	Sept. 11	704	197	24	1030
Dunnaway, James W. (See Ballagh, Andrew H., assignor.)						
Dunneback, Joseph F. (See Clarke, John S., assignor.)						
Dunnet, Edward L., assignor of one-half to W. H. Lockerman, Philadelphia, Pa. Hanger for carboys	270,183	Jan. 2	417	121	23	85
Dunning, William B., Geneva, N. Y. Steam-heater. (Reissue)	10,391	Oct. 9	988	266, 267	25	190
Dunscomb, John A. S. (See Monk, Henry and W., assignors.)						
Dunstedter, Jacob. (See Williams and Dunstedter.)						
Dunton, Charles H., Oakland, Cal. Cooking-stove	270,766	Jan. 16	1166	333, 334	23	243
Dunwody, James B., Jr., Walterborough, S. C. Shutter-bower	275,167	Apr. 3	369	102	23	1290
Dupont, John B. (See Loomis and Dupont.)						
Durand, Arthur. (See Chaine, Durand, and De Chaligny.)						
Durant, Edward G., Racine, Wis. Building veneer boats	272,663	Feb. 20	1362	382	23	693
Durant, Edward G., and E. Shupe, Racine, Wis. Folding seat	278,691	June 5	20	6	23	2128
Durant, Edward G., Racine, Wis., assignor of one-half to T. Kane, Chicago, Ill. Opera-chair	271,320	Jan. 30	1847	536	23	373
Durant, Edward G., Racine, Wis., and T. Kane, Chicago, Ill. Opera-chair	274,742	Mar. 27	1924	536	23	1190
Durant, George F., St. Louis, Mo. Telephone-exchange system	286,595	Oct. 16	1024	278	25	202
Durden, Henry S., *et al.* (See Learned, Edward A., assignor.)						
Durell, Frank H., Bay City, and W. Goldie, West Bay City, Mich. Boom-stick	276,789	May 1	337	89	23	1685
Duret, James S., Peru, Ind. Calculating device	283,331	Aug. 14	1036	291	24	693
Durfee, William F., Bridgeport, Conn., and T. Egleston, New York, N. Y. Apparatus for casting copper	287,646	Oct. 30	2375	640, 641	25	461
Durgin, Henry J. (See Brown and Durgin.)						
Durgin, Henry J., Rochester, N. Y. Table-leaf support	279,231	June 12	768	212	23	2264
Durgin, Henry J., Rochester, N. Y. Machine for channeling table-legs	284,193	Sept. 4	41	12, 13	24	912
Durkee, Alonzo, assignor to National Automatic Piano and Organ Manufacturing Company, New York, N. Y. Mechanical musical instrument	282,179	July 31	2345	646	24	428
Durkee, Edward W., Mason, Ill. Wire-coiling machine	273,483	Mar. 6	312	85	23	887
Durkee, George B. (See Edwards and Durkee.)						
Durkee, George B. (See Turner and Durkee.)						
Durkee, William H., assignor to himself and G. Marshall, Cincinnati, Ohio. Compound for preserving belts and preventing their slipping	277,017	May 8	633	.....	23	1740
Durlach, Elias, Brooklyn, N. Y. Toy stove	272,664	Feb. 20	1364	382	23	694
Durlach, Elias, Brooklyn, N. Y. Toy kitchen	272,665	Feb. 20	1365	383	23	694
Durning, Joseph S., Allegheny, Pa. Horse hay-fork	278,897	June 5	300	87	23	2174
Duryea, Edgar E., and P. H. Grimm, Glen Cove, assignors to Glen Cove Manufacturing Company, New York, N. Y. Apparatus for cooling liquids	271,436	Jan. 30	2000	577	23	401
Duryea, John. (See Grimm, Paul H., assignor.)						
Duryee, George, New York, N. Y. Brick and fire-proof lining for furnaces	271,437	Jan. 30	2001	.....	23	402
Dusenberry, William W., *et al.* (See Grant, Joseph C., assignor.)						
Dusenbury, C. Coles. (See Doyle, John, assignor.)						
Dusenbury, James W. (See Way, Orvill W., assignor.)						
Dusenbury, Philip S., assignor of one-half to J. H. Kruse, Sedalia, Mo. Cuspidor	277,692	May 15	1448	391	23	1886
Dutcher Temple Company. (See Stimpson, Edward S., assignor.)						
Dutemple, William, Boston, Mass. Elevator	287,012	Oct. 23	1558	429	25	300
Dutemple, William R., assignor of two-thirds to G. C. and A. B. Case, Providence, R. I. Ear-ring fastener	280,726	July 3	466	133	24	83
Dutot, James, and H. B. Anderson, Newton, Iowa. Steam balanced valve	275,610	Apr. 10	971	264	23	1400
Dutrow, David E., Washington, D. C. Velocipede	277,246	May 8	918	246	23	1790
Dutrow, David E., Washington, D. C., assignor of one-half to C. W. Bready, Montgomery County, Md. Paddle-wheel propeller	276,010	Apr. 17	1472	406	23	1495
Dutton, Charles, *et al.* (See Huntress, John H., assignor.)						
Dutton, Chauncey N. (See Wilson and Dutton.)						
Dutton, Chauncey N., assignor of one-half to T. Wilson, Washington, D. C. Water-closet.	280,017	June 26	1736	486, 487	23	2441
Dutton, Chauncey N., assignor of one-half to T. Wilson, Washington, D. C. Water-closet.	280,018	June 26	1740	488, 489	23	2442
Dutton, George W., assignor of two-thirds to L. Guldayer and M. L. Murphy, Tomales, Cal. Two-wheeled vehicle	274,183	Mar. 20	1205	331	23	1057
Dutton, Leander K., Oskaloosa, Iowa. Washing-machine	274,473	Mar. 27	1585	435	23	1131
Dutton, Rufus, Yonkers, N. Y. Mowing-machine	271,819	Feb. 6	284	78	23	491
Duval, George R., Benicia, Cal. Vehicle-brake	271,047	Jan. 23	1507	435	23	307
Duval, Paul, Paris, France. Life-boat	281,622	July 17	1606	439	24	293
Duvall, Elbridge G. (See Willis, Daniel, assignor.)						
Duvall, Grafton H., assignor of one-half to B. Thomas, Philadelphia, Pa. Floor-plank clamp.	280,152	June 26	1890	532	23	2469
Duvall, Henry R., *et al.* (See Wagner and Seath, assignors.)						
Duvall, William C., *et al.* (See Kirkbride, Frederick L., assignor.)						
Duvall, William C., *et al.* (See Spooner, Samuel P., assignor.)						
Dwight, James, Boston, Mass. Pole for lawn-tennis nets	282,506	Aug. 7	36	11	24	506
Dwyer, Daniel, Marshall, Tex. Life-boat	273,713	Mar. 13	605	163	23	945
Dwyer, James, Detroit, Mich. Heating-stove	272,128	Feb. 13	683	196	23	570
Dwyer, John J., New York, N. Y. Sash-follower	283,384	Aug. 21	1111	313	24	712
Dwyer, William M. (See Fitz Gerald, Walter H., assignor.)						
Dye, Alexander M., Minneapolis, Minn. Fire-escape	284,542	Sept. 4	464	132	24	983
Dyer, Charles E., Malden, Mass. Hitching device	282,968	Aug. 14	583	165	24	611
Dyer, Hugh, Joplin, Mo. Baking-pan	271,321	Jan. 30	1849	536	23	373
Dyer, Josiah W., Philadelphia, Pa. Lightning-arrester for telegraph-circuits	272,867	Feb. 27	1640	459	23	750
Dyer, Josiah W., Philadelphia, Pa., assignor to Automatic Current Protector and Electric Manufacturing Company. Lightning-arrester	287,647	Oct. 30	2377	641	25	461
Dyer, Josiah W., Philadelphia, Pa., assignor to Automatic Current Protector and Electric Manufacturing Company. Lightning arrester	289,629	Dec. 4	316	88	25	943
Dyer, Josiah W., Philadelphia, Pa., assignor to Automatic Current Protector and Electric Manufacturing Company. Circuit-breaker and lightning-arrester for electric circuits	289,630	Dec. 4	318	89	25	944
Dyer, Lucius. (See Young and Dyer.)						
Dyer, Richard N., assignor of one-third to H. W. Seely, New York, N. Y. Thermostatic fire-indicator	287,757	Oct. 30	2526	681	25	489

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Dyer, Richard N., and H. W. Seely, Menlo Park, N. J., assignors of one-third to S. Insull, New York, N. Y. Electric flat-iron	287,758	Oct. 30	2529	681 692	25	490
Dyer, Stephen R. (See Conlon and Dyer.)						
Dyer, Stephen R., New Orleans, La. Car-axle box	273,484	Mar. 6	313	85	23	887
Dynamite Nobel Socéité Anonyme. (See Barbe, Paul, assignor.)						
Eager, Frank L., Palmer, Mass. Car-coupling	270,032	Jan. 2	241	70	23	50
Eager, Frank L., Palmer, Mass. Car-coupling	282,616	Aug. 7	170	51	24	530
Eagle Lock Company. (See Bradt, William D., assignor.)						
Eagle Lock Company. (See Ogden, Mortimer C., assignor.)						
Eagle Lock Company. (See Roche, James, assignor.)						
Eagleson, Alexander M. (See Huntington, Lawson G., assignor.) (Reissue.)						
Eames, Charles J., New York, N. Y. Process of and apparatus for burning water-gas in furnaces	272,378	Feb. 13	991	277	23	623
Eames, Ryland W. (See Bishop and Eames.)						
Eames, Wilfred, assignor to Evansville Pump Company, Evansville, Ind. Pump	280,920	July 10	717	201	24	133
Earhart, George W. (See Butler, Earhart, and Crawford.)						
Earhart, John F., Columbus, Ohio. Casting a plate for decorative printing, &c	282,966	Aug. 7	471	.....	24	584
Earhart, John F., Columbus, Ohio. Printing-plate	284,399	Sept. 4	294	82	24	953
Earl, Edwin F., *et al.* (See Westerfield, William C., assignor.)						
Earl, Francis, St. Ives, county of Huntingdon, England. Egg-beater	280,019	June 26	1743	489	23	2442
Earl, Gardner, *et al.* (See Betts, Edgar K., assignor.)						
Earl, Henry W., assignor of two-thirds to G. F. Sinton and S. P. Ryland, Jr., Baltimore, Md. Seal-lock	278,227	May 22	2100	578	23	2007
Earl, John H., *et al.* (See Westerfield, William C., assignor.)						
Earl, William S., *et al.* (See Betts, Edgar K., assignor.)						
Earl & Wilson. (See Turner, Isaac P., assignor.)						
Earle, Daniel D. (See Williams, Eben B., assignor.)						
Earle, George W., and G. S. Strail, Tully, N. Y. Running-gear for carriages	276,011	Apr. 17	1473	406	23	1495
Earle, John, Darby, Pa. Engraving	277,412	May 8	1107	297	23	1823
Earle Manufacturing Company, T. K. (See Arnold, Oliver, assignor.)						
Earls, William H., Kalkaska, Mich. Spittoon	271,920	Feb. 6	286	78	23	491
Early, Louis S. and M. J. B., Ladonia, Tex. Stalk-cutter	280,590	July 3	305	85	24	55
Early, Matthias J. B. (See Early, Louis S. and M. J. B.)						
Earnshaw, Charles W., Boston, Mass. Sales-book	283,872	Aug. 28	1697	478	24	831
East Hampton Bell Company. (See Goff, George W., assignor.)						
East, John T., Castana, Iowa. Saw-set	279,140	June 12	673	185	23	2248
Eastburn, David B., South Bend, Ind. Roaster	282,617	Aug. 7	171	51	24	530
Eastman, Haskett D., Minneapolis, Minn. Fire-escape	275,895	Apr. 17	1341	369	23	1472
Eastman, Henry A. (See Force, Douglas S., assignor.)						
Eastman, William E., Boston, Mass. Air-motor	278,228	May 22	2101	579	23	2007
Eastman, William W., *et al.* (See McManus, Henry, assignor.)						
Eastman, William W., Brooklyn, N. Y. Lamp-burner	281,674	July 24	1678	457	24	311
Easton, Henry. (See Ives, Henry, assignor.)						
Easton, James W., New York, N. Y. Dynamo-electric machine	290,551	Dec. 18	1493	413	25	1164
Eastwood, John. (See Merrill and Eastwood.)						
Eastwood, John, Hilladale, Mich. Portable fence	271,322	Jan. 30	1849	536	23	373
Eastwood, John W., Denver, Colo. Combined book-clamp and portfolio	283,960	Aug. 28	1827	516	24	855
Eastwood Wire Manufacturing Company. (See Smith, Charles, assignor.)						
Eatherton, Henry H., assignor of one-half to A. C. Thompson, Monticello, Ill. Railway time-signal	279,084	June 5	580	159	23	2223
Eatherton, Henry H., assignor of one-half to A. C. Thompson, Cisco, Ill. Tile-ditcher	279,141	June 12	674	185	23	2248
Eatherton, Henry H., assignor of one-half to A. C. Thompson, Monticello, Ill. Railway-signal	286,122	Oct. 2	420	115	25	78
Eatherton, Henry H., assignor of one-half to A. C. Thompson, Monticello, Ill. Railway-signal	286,915	Oct. 16	1431	393	25	272
Eatherton, Henry H., assignor of one-half to A. C. Thompson, Monticello, Ill. Cutter-chain for ditching-machines, &c	288,930	Nov. 20	1430	393	25	773
Eaton, Asahel K., *et al.* (See Wallace, William, assignor.)						
Eaton, Asahel K., Brooklyn, N. Y. Thermo-electric battery	289,631	Dec. 4	320	89	25	944
Eaton, Benjamin F., Coxsackie, N. Y., assignor, by mesne assignments, to Union Cabinet and Paper Company, Boston, Mass. Paper-holder	285,398	Sept. 25	1521	428	24	1187
Eaton, Charles E., Chelsea, Mass. Car-axle	284,194	Sept. 4	48	14	24	913
Eaton, Enoch C., Pinckneyville, Ill. Sulky-plow	270,033	Jan. 2	243	71	23	50
Eaton, Frederick, Los Angeles, Cal. Protecting iron water-pipes from rust	289,900	Dec. 11	663	185	25	1009
Eaton, George S., Brooklyn, N. Y. Type-rubbing machine	278,785	June 5	149	44	23	2148
Eaton, George S., Brooklyn, N. Y. Insulated electric conductor	280,153	June 26	1891	332	23	2470
Eaton, George S., assignor to himself and W. A. French, Brooklyn, N. Y. Burial-casket	274,575	Mar. 27	1733	481	23	1154
Eaton, Hiram A., Manchester, Me. Alarm-signal. (Reissue)	10,295	Mar. 13	1092	301	23	1029
Eaton, Isaac, New Sharon, Iowa. End-gate	280,020	June 26	1743	489	23	2442
Eaton, Marcus, Circleville, Ohio. Lifting-jack	277,247	May 8	920	246	23	1790
Eaton, Oliver N., New York, N. Y. Endless hod-elevator	287,013	Oct. 23	1558	429 430	25	300
Eaton, Thomas W., and F. H. Prince, Chicago, Ill. Barb-wire-fence machine	275,810	Apr. 17	1240	341	23	1453
Eayre, Harrison P., *et al.* (See Kohler, Edward, assignor.)						
Ebbert, Jerry, Martin's Ferry, Ohio. Steam cooking-vessel	280,591	July 3	306	85	24	55
Ebbert, John, Rockaway Beach, N. Y., assignor to P. A. Hall, Chicago, Ill. Spike-extractor	290,011	Dec. 11	798	224	25	1034
Ebbes, Alexander. (See Mitchell, Ardon M., assignor.)						
Eber, Caspar C., St. Paul, Minn. Car-coupling	281,251	July 17	1144	316	24	215
Eber, Henry C., Quincy, Ill. Beer-cask	289,632	Dec. 4	321	89	25	944
Eberhard, Anton, Philadelphia, Pa. Steam-engine	290,871	Dec. 25	1905	526	25	1244
Eberhard, George F., Cleveland, Ohio. Trace-loop	288,626	Nov. 20	1057	291	25	707
Eberhard, George F., Cleveland, and J. E. Renz, Medina, Ohio. Trace-supporter	289,519	Dec. 4	185	51	25	919
Eberhard, William, assignor of one-half to G. T. Ford, Akron, Ohio. Grain-cutting machine	283,981	Aug. 28	1828	516	24	856
Eberhard, William, assignor of one-half to G. T. Ford, Akron, Ohio. Cuspidor-stand	290,759	Dec. 25	1773	490	25	1221
Eberhardt, Henry E., Newark, N. J. Friction-clutch	290,671	Dec. 25	1649	454	25	1198
Eberhart, Lloyd, Joliet, Ill. Check-rower attachment for seed-planters	272,538	Feb. 20	1201	335	23	665
Eberhart, Lloyd, Joliet, Ill. Anchor for check-row cords	281,473	July 17	1420	389	24	262
Eberhart, Lloyd, and I. D. Stevens, Joliet, Ill. Door-hanger	278,692	June 5	22	6	23	2128
Eberle, Louis, Altoona, Pa. Composition for gilt moldings	289,237	Nov. 27	1802	.....	25	847
Eberley, Friderich C. and R. Richter, Denver, Colo. Coke oven and kiln	282,064	July 31	2175	597 598	24	402
Eberline, Thomas, Tarentum, Pa. Axle-skein	283,962	Aug. 28	1829	516	24	856

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Eberly, Cyrus, Columbus, Ohio. Window-curtain cornice	279,232	June 12	770	212	23	2264
Eberman, Albert S., Sandy Lake, Pa. Injector	288,039	Nov. 6	313	88, 89	25	561
Eberman, William S., Sandy Lake, Pa. Car-axle	282,507	Aug. 7	37	11	24	507
Ebert, Jacob F., Decatur, Ill. Check-rower for corn-planters	273,827	Mar. 13	763	207	23	973
Ebert, Jacob F., Decatur, Ill. Check-rower for corn-planters	282,508	Aug. 7	38	11	24	507
Ebi, Edward, Cedar Rapids, Iowa. Coupling for brake-rods	276,370	Apr. 24	1931	536	23	1581
Ebi, Edward, Cedar Rapids, Iowa. Binding attachment for harvesters	278,521	May 29	2497	682	23	2085
Ecaubert, Frederic, New York, N. Y. Device for making and ornamenting watch-centers	270,644	Jan. 16	1010	291	23	214
Eccles, Nicholas, Auburn, N. Y. Die for making clip king-bolts	270,404	Jan. 9	699	206	23	146
Eccles, William M., St. Louis, Mo. Corn-planter	290,552	Dec. 18	1495	413	25	1165
Eccles, William M., assignor of one-half to I. N. Byrns, St. Louis, Mo. Nut-lock	276,527	Apr. 24	2127	592	23	1614
Eckardt, John C., Stuttgart, Germany. Friction-clutch	287,915	Nov. 6	157	45, 46	25	535
Eckart, George, *et al.* (See Rebstock, Christian, assignor.)						
Eckart, William R., San Francisco, Cal. Pumping apparatus	275,473	Apr. 10	804	217	23	1372
Eckert, Edward A. (See Eckert, Seely, and Eckert.)						
Eckert, Jacob H. (See Ritty and Birch, assignors.)						
Eckert, William H., and J. A. Seely, New York, N. Y. Telephonic circuit	282,867	Aug. 7	472	133	24	584
Eckert, William H., and J. A. Seely, New York, N. Y. Telephone system	288,627	Nov. 20	1057	291	25	707
Eckert, William H., J. A. Seely, and E. A. Eckert, Cincinnati, Ohio. Adjustable support for telephonic transmitters	275,611	Apr. 10	972	264	23	1401
Eckert, William H., J. A. Seely, and E. A. Eckert, Cincinnati, Ohio. Adjustable telephone-holder and automatic circuit-breaker	288,320	Nov. 13	659	182	25	630
Eckstein, Horatio G., Philadelphia, Pa. Feed-water heater	271,575	Jan. 30	2172	626	23	430
Eclipse Improved Wheat Cleaning Machine Company. (See Teter, William L., assignor.)						
Economic Motor Company. (See Hopkins, George M., assignor.)						
Economic Motor Company. (See Hopkins, George M. and I. N., assignors.)						
Economist Plow Company. (See Meagher, Edmund D., assignor.)						
Eddington, William. (See Ellwanger and Eddington.)						
Eddowes, Archibald K., Philadelphia, Pa. Crank-pin for steam-engines	286,404	Oct. 9	788	212	25	153
Eddy, Albert C., Providence, R. I. Apparatus for working vulcanizable gum compounds	277,018	May 8	633	166	23	1740
Eddy, Albert C., Providence, R. I. Working and vulcanizing gum compounds	277,019	May 8	637	166, 167	23	1741
Eddy, Almon W. (See Buchholz and Eddy.)						
Eddy, Alson W., Macomb, Ill. Earthenware cover for milk-vessels	288,931	Nov. 20	1431	393	25	773
Eddy, Peter, assignor of one-half to J. G. Hartwell, Nevada City, Cal. Combined ore-grinder and amalgamator	287,256	Oct. 23	1870	511, 512	25	358
Eddy, Romulus A., assignor of two-thirds to J. S. Estabrook and S. S. Garigues, East Saginaw, Mich. Fire-kindler	282,868	Aug. 7	473	133	24	584
Eddy, Walden, Greenwich, N. Y. Shovel-plow	289,238	Nov. 27	1802	499	25	847
Eddy, William H., Worcester, Mass. Friction-clutch	285,593	Sept. 25	1750	496	24	1229
Edenborn, William, and G. Griesche, St. Louis, Mo. Barbed fence-wire	271,693	Feb. 6	129	35	23	462
Edenborn, William, and G. Griesche, St. Louis, Mo.; said Griesche assignor to said Edenborn. Barb-wire machine	270,645	Jan. 16	1012	291, 292	23	214
Edenborn, William, and G. Griesche, St. Louis, Mo.; said Griesche assignor to said Edenborn. Barb-wire machine	270,646	Jan. 16	1015	292, 293	23	214
Edes, William C., *et al.* (See Magaw, Frederick L., assignor.)						
Edgar, Dennis P., Jackson, Mich. Fire-escape	287,257	Oct. 23	1872	512	25	358
Edge, James S., Jr. (See Deeley and Edge.)						
Edge, William C. (See Bauer, Hermann, assignor.)						
Edge, William C. (See Spicer, George A., assignor.)						
Edge, William C., Newark, N. J. Inlaid work and producing the same	272,032	Feb. 13	556	151	23	549
Edge, William C., Newark, N. J. Inlaid work and producing the same	272,033	Feb. 13	557	151	23	549
Edgerly, Samuel H., Jackson, Mich. Crane	282,869	Aug. 7	473	133	24	584
Edgerton, Henry H., Fort Wayne, Ind. Manufacture of illuminating-gas from hydrocarbon oils	274,442	Mar. 20	1547	424	23	1116
Edgerton, Henry H., Danbury, Conn. Apparatus for the manufacture of gas from hydrocarbon oils	274,443	Mar. 20	1549	425	23	1116
Edgerton, Marvin D., Bristol, Conn. Nail-puller	283,223	Aug. 14	895	249	24	667
Edgerton, Nathan H., Philadelphia, Pa. Electroplated insulated conductor of electricity	277,248	May 8	922	246	23	1790
Edgerton, Nathan H., Philadelphia, Pa. Dynamo-electric machine	279,362	June 12	938	262, 263	23	2292
Edgerton, Nathan H., Philadelphia, Pa. Electric-arc lamp	279,363	June 12	948	263, 264	23	2293
Edison Electric Light Company. (See Bradley, Charles S., assignor.)						
Edison Electric Light Company. (See Edison, Thomas A., assignor.)						
Edison Electric Light Company. (See Edison and Clarke, assignors.)						
Edison Electric Light Company. (See Goddard, Calvin, assignor.)						
Edison Electric Light Company. (See Haid, Alfred, assignor.)						
Edison Electric Light Company. (See Mott, Samuel D., assignor.)						
Edison Electric Light Company. (See Ott, John F., assignor.)						
Edison Electric Light Company. (See Stieringer, Luther, assignor.)						
Edison Lamp Company. (See Holzer, William, assignor.)						
Edison, Thomas A., Menlo Park, N. J. Manufacture of incandescing electric lamps	271,613	Feb. 6	36	9	23	447
Edison, Thomas A., Menlo Park, N. J. Shafting	271,614	Feb. 6	37	9	23	447
Edison, Thomas A., Menlo Park, N. J. Governor for dynamo-electric machines	271,615	Feb. 6	38	10	23	447
Edison, Thomas A., Menlo Park, N. J. Regulator for dynamo-electric machines	271,616	Feb. 6	39	10	23	447
Edison, Thomas A., Menlo Park, N. J. Telephone	272,034	Feb. 13	557	151	23	549
Edison, Thomas A., Menlo Park, N. J. Incandescing electric lamp	273,485	Mar. 6	314	85	23	887
Edison, Thomas A., Menlo Park, N. J. Incandescing electric lamp	273,486	Mar. 6	314	85	23	887
Edison, Thomas A., Menlo Park, N. J. Regulator for dynamo-electric machines	273,487	Mar. 6	315	86	23	887
Edison, Thomas A., Menlo Park, N. J. Regulator for dynamo-electric machines	273,488	Mar. 6	317	86	23	887
Edison, Thomas A., Menlo Park, N. J. Turn-table for electric railways	273,489	Mar. 6	318	86	23	888
Edison, Thomas A., Menlo Park, N. J. Electro-magnetic railway system	273,490	Mar. 6	318	86	23	888
Edison, Thomas A., Menlo Park, N. J. Regulator for driving engines of electrical generators	273,491	Mar. 6	319	87	23	888
Edison, Thomas A., Menlo Park, N. J. Secondary battery	273,492	Mar. 6	321	87	23	889
Edison, Thomas A., Menlo Park, N. J. Valve-gear for electrical generator-engines	273,493	Mar. 6	322	87	23	889
Edison, Thomas A., Menlo Park, N. J. Electrical railway	273,494	Mar. 6	323	88	23	889
Edison, Thomas A., Menlo Park, N. J. Magneto-electric signaling apparatus	273,714	Mar. 13	607	163	23	945
Edison, Thomas A., Menlo Park, N. J. Malleableizing iron	273,715	Mar. 13	608	.....	23	946
Edison, Thomas A., Menlo Park, N. J. System of underground conductors for electrical distribution	273,828	Mar. 13	764	207	23	973
Edison, Thomas A., Menlo Park, N. J. System of electrical distribution	274,290	Mar. 20	1346	370	23	1081
Edison, Thomas A., Menlo Park, N. J. Mold for carbonizing	274,291	Mar. 20	1348	371	23	1081

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Edison, Thomas A., Menlo Park, N. J. Secondary battery	274,292	Mar. 20	1349	371	23	1081
Edison, Thomas A., Menlo Park, N. J. Electric lamp	274,293	Mar. 20	1350	.....	23	1081
Edison, Thomas A., Menlo Park, N. J. Incandescing electric lamp	274,294	Mar. 20	1350	371	23	1081
Edison, Thomas A., Menlo Park, N. J. Incandescent electric lamp	274,295	Mar. 20	1352	371	23	1081
Edison, Thomas A., Menlo Park, N. J. Manufacture of incandescents	274,296	Mar. 20	1354	.....	23	1082
Edison, Thomas A., Menlo Park, N. J. Transmitting-telephone	274,576	Mar. 27	1734	482	23	1154
Edison, Thomas A., Menlo Park, N. J. Telephone	274,577	Mar. 27	1736	482	23	1155
Edison, Thomas A., Menlo Park, N. J. Manufacture of incandescing electric lamps	275,612	Apr. 10	973	.....	23	1401
Edison, Thomas A., Menlo Park, N. J. Incandescing electric lamp	275,613	Apr. 10	974	264	23	1401
Edison, Thomas A., Menlo Park, N. J. Operating and regulating electrical generators	276,232	Apr. 24	1746	484 485	23	1550
Edison, Thomas A., Menlo Park, N. J. Electrical generator and motor	276,233	Apr. 24	1749	485	23	1550
Edison, Thomas A., Menlo Park, N. J. Magneto-electric signaling apparatus	282,287	July 31	2463	679	24	450
Edison, Thomas A., Menlo Park, N. J. System of electrical distribution	283,963	Aug. 28	1830	517	24	856
Edison, Thomas A., Menlo Park, N. J. Electric regulator	287,511	Oct. 30	2188	594	25	425
Edison, Thomas A., Menlo Park, N. J. Dynamo-electric machine	287,512	Oct. 30	2190	595	25	425
Edison, Thomas A., Menlo Park, N. J. Dynamo-electric machine	287,513	Oct. 30	2191	595	25	425
Edison, Thomas A., Menlo Park, N. J. Dynamo-electric machine	287,514	Oct. 30	2191	595	25	426
Edison, Thomas A., Menlo Park, N. J. System of electrical distribution	287,515	Oct. 30	2193	596	25	426
Edison, Thomas A., Menlo Park, N. J. System of electric distribution	287,516	Oct. 30	2194	596	25	426
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Regulator for dynamo-electric machines	278,413	May 29	2366	646	23	2061
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Regulator for dynamo-electric machines	278,414	May 29	2367	646	23	2062
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Manufacture of incandescing electric lamps	278,415	May 29	2368	647	23	2062
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Manufacture of incandescing electric lamps	278,416	May 29	2369	647	23	2062
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Manufacture of incandescing electric lamps	278,417	May 29	2370	647	23	2062
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Apparatus for translating electric currents from high to low tension	278,418	May 29	2371	647 648	23	2062
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Dynamo-electric machine	278,419	May 29	2372	648	23	2063
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. System of electrical distribution	280,727	July 3	466	133	24	83
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Regulator for dynamo-electric machines	281,349	July 17	1963	351	24	236
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Regulator for dynamo-electric machines	281,350	July 17	1964	351	24	236
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Electrical generator	281,351	July 17	1965	352	24	236
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Webermeter	281,352	July 17	1969	352	24	237
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Dynamo or magneto electric machine	281,353	July 17	1970	353	24	237
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. System of electrical distribution	283,984	Aug. 28	1832	517	24	856
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. System of electrical distribution	283,985	Aug. 28	1833	518	24	857
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. System of electrical distribution	283,986	Aug. 28	1835	518	24	857
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. System of electrical distribution	287,517	Oct. 30	2195	596	25	427
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Manufacturing incandescing electric lamps	287,518	Oct. 30	2196	596	25	427
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescing electric lamp	287,519	Oct. 30	2197	597	25	427
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescing conductor for electric lamps	287,520	Oct. 30	2198	597	25	427
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Dynamo or magneto electric machine	287,521	Oct. 30	2198	597	25	427
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Mold for carbonizing	287,522	Oct. 30	2200	598	25	428
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Dynamo or magneto electric machine	287,523	Oct. 30	2201	598	25	428
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Regulator for dynamo-electric machines	287,524	Oct. 30	2202	598	25	428
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Regulator for dynamo or magneto electric machines	288,318	Nov. 13	656	181 182	25	630
Edison, Thomas A., Menlo Park, N. J., and C. L. Clarke, assignors to Edison Electric Light Company, New York, N. Y. Regulator for systems of electrical distribution	287,525	Oct. 30	2204	508 509	25	429
Edmonds, John A., Dover, Del. Fire-escape	272,129	Feb. 13	683	186	23	570
Edmonds, John W., New York, N. Y. Transparent blower for fire-places	280,154	June 26	1893	533	23	2470
Edmonds, Robert, Norfolk, Va. Universal joint	281,850	July 24	1913	522	24	352
Edmunds, Henry, Jr., New York, N. Y., assignor to T. J. Montgomery, Boston, Mass. Contact for electric lamps	288,217	Nov. 13	596	146	25	608
Edmunds, Henry, Jr., New York, N. Y., assignor to T. J. Montgomery, Boston, Mass. Contact for electric lamps	288,218	Nov. 13	596	146	25	609
Edmunds, Henry, Jr., New York, N. Y., assignor to T. J. Montgomery, Boston, Mass. Switch for electric lamps	290,406	Dec. 18	1285	361	25	1130
Edmunds, Henry, Jr., New York, N. Y., assignor to T. J. Montgomery, Boston, Mass. Circuit-connection for electroliers	290,407	Dec. 18	1286	361	25	1130
Edmunds, Milton L., Danbury, Iowa. Window	279,364	June 12	951	264	23	2293
Edney, Samuel R., South Mills, N. C. Wagon-axle	290,760	Dec. 25	1773	490	25	1221
Edsall, William H., Brooklyn, N. Y. Joint for cornice-poles	288,319	Nov. 13	658	182	25	630
Edson, Charles H., Canisteo, N. Y. Cut-off valve	276,528	Apr. 24	2127	592	23	1614
Edson, George F., Van Wert, Ohio. Corn-planter	282,288	July 31	2464	679	24	451
Edson, Jacob, Boston, Mass. Surgical truss	273,228	Feb. 27	2081	584	23	926
Edson, Jarvis B. (See Douglass, Samuel W., assignor.)						
Edson, Jarvis B., New York, N. Y. Accumulator of power	273,044	Feb. 27	1851	518	23	786
Edson, Jarvis B., North Adams, Mass. Frame for drying substances in sheets	277,693	May 15	1449	391	23	1887
Edson, Jarvis B., North Adams, Mass. Nozzle for making rods and tubes from celluloid and other plastic compounds	277,694	May 15	1450	391	23	1887

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page
Edson, Jarvis B., Adams, Mass. Formation of deep wells in quicksand, &c	277,695	May 15	1451	391	23	1887
Edson, Jarvis B., Adams, Mass. Method of and apparatus for forming thin sheets of a plastic and yielding compound	283,224	Aug. 14	895	250	24	667
Edson, Jarvis B., Adams, Mass. Manufacture of artificial ivory	283,225	Aug. 14	896	.....	24	667
Edson, Jarvis B., Adams, Mass. Formation of deep wells and apparatus therefor	288,557	Nov. 13	967	266	25	684
Edson, Jarvis B., Adams, Mass. Treating material with zylonite to resemble pebble, goat, French calf, and alligator leather	289,338	Nov. 27	1926	.....	25	871
Edson, Jarvis B., Adams, Mass. Apparatus for polishing sheets of zylonite, &c	289,239	Nov. 27	1803	499	25	847
Edson, Jarvis B., Adams, Mass. Forming and finishing surfaces coated with zylonite	289,240	Nov. 27	1804	.....	25	848
Edson, Jarvis B., Adams, Mass. Patent-leather and a substitute therefor	289,241	Nov. 27	1805	.....	25	848
Edson, Jarvis B., Adams, Mass. Forming and finishing fabrics coated with zylonite or similar pyroxyline compounds for collars and cuffs, &c	289,242	Nov. 27	1805	.....	25	848
Edson, Jarvis B, Adams, Mass. Combining sheets of zylonite with other sheeted substances	290,553	Dec. 18	1498	413	25	1165
Edward, John C., and John G. Bisset, Detroit, Mich. Boiler and steam cooker	284,729	Sept. 11	706	198	24	1030
Edwards, Abraham, Asbury Park, N. J. Mercury-seal trap for lavatories, bath-tubs, &c	287,369	Oct. 23	2010	547	25	383
Edwards, Abraham, assignor to I. S. Edwards, Asbury Park, N. J. Mercury-seal trap	280,155	June 26	1893	533	23	2470
Edwards, Abraham, Asbury Park, N. J., and S. J. Van Stavoren, Philadelphia, Pa., assignors to said Edwards. Mercury-seal-joint trap for bath-tubs, &c	270,034	Jan. 2	244	71	23	50
Edwards, Albert T., South Kingston, R. I. Paint-brush holder	286,405	Oct. 9	789	213	25	153
Edwards, Alfred, New Haven, Conn. Drying apparatus	288,782	Nov. 20	1248	343	25	740
Edwards, Alfred, New Haven, Conn. Fertilizer for tobacco-crops	290,633	Dec. 18	1600	.....	25	1182
Edwards, Alfred, New Haven, Conn., assignor to Farmers Protective Union, Long Island City, N. Y. Packing and shipping fertilizers	287,526	Oct. 30	2206	599	25	429
Edwards, Austen M., Buffalo, N. Y. Sphygmograph	286,795	Oct. 16	1277	345	25	247
Edwards, Craig K., Boston, Mass. Shovel	283,066	Aug. 14	728	204	24	637
Edwards, David, New York, N. Y. Feed-water regulator	278,112	May 22	1946	533 534	23	1981
Edwards, David P. (See Stevens, Major, and Edwards.)						
Edwards, Edgar A., Cincinnati, Ohio. Telegraph-key	270,767	Jan. 16	1167	334	23	243
Edwards, Edgar A., Cincinnati, assignor to O. M. Gottschall, trustee, Dayton, Ohio. Electric-arc lamp	275,168	Apr. 3	369	102	23	1290
Edwards, Edgar A., Cincinnati, assignor to O. M. Gottschall, trustee, Dayton, Ohio. Armature for dynamo-electric machines	275,169	Apr. 3	370	102	23	1290
Edwards, Edgar A., Cincinnati, assignor to O. M. Gottschall, trustee, Dayton, Ohio. Electric-arc lamp	275,170	Apr. 3	371	102 103	23	1291
Edwards, Edgar A., Cincinnati, assignor to O. M. Gottschall, trustee, Dayton, Ohio. Electric-arc lamp	275,171	Apr. 3	373	103	23	1291
Edwards Edgar A., Cincinnati, assignor to O. M. Gottschall, trustee, Dayton, Ohio. Electric-arc lamp	275,172	Apr. 3	374	103 104	23	1291
Edwards, Edgar A., Cincinnati, assignor to O. M. Gottschall, trustee, Dayton, Ohio. Electric-arc lamp	275,173	Apr. 3	376	104	23	1291
Edwards, Edgar A., Cincinnati, assignor to O. M. Gottschall, trustee, Dayton, Ohio. Electric-arc lamp	275,174	Apr. 3	377	105	23	1292
Edwards, Edgar A., Cincinnati, assignor to O. M. Gottschall, trustee, Dayton, Ohio. Dynamo-electric machine	281,985	July 24	2074	569	24	380
Edwards, Frank A. (See Gazaille, Henry, assignor.)						
Edwards, George J., Philadelphia, Pa. Paper box	281,354	July 17	1271	353	24	237
Edwards, Isabella S. (See Edwards, Abraham, assignor.)						
Edwards, John S., *et al.* (See Cartwright, Edward, assignor.)						
Edwards, Nathan J. (See Frazier and Edwards.)						
Edwards, Nelson, Jericho, Vt. Frictional connection for the bars and slats of window-blinds	280,156	June 26	1894	533	23	2470
Edwards, Reuben B. (See Leffingwell, John G., assignor.)						
Edwards, Robert. (See Lüngen, Adam, assignor.)						
Edwards, William B., assignor to Upson Nut Company, Unionville, Conn. Machine for pointing bolts	285,738	Sept. 25	1936	548 549	24	1261
Edwards, William C., *et al.* (See De Lamater, William, assignor.)						
Edwards, William F., Covington, Ga. Seed-planter and fertilizer-distributer	284,896	Sept. 11	821	229	24	1050
Edwards, William F., Cincinnati, Ohio. Window-shade roller	271,438	Jan. 30	2002	578	23	402
Edwards, William F., Cincinnati, Ohio. Shipping-tag	276,166	Apr. 24	1669	461	23	1536
Edwards, William F., assignor of two-thirds to G. Quigley and P. T. Schultz, Cincinnati, Ohio. Shipping-tag	276,167	Apr. 24	1670	461	23	1536
Edwards, William J., and G. B. Durkee, Chicago, Ill., assignors to said Edwards. Grading and ditching machine	275,614	Apr. 10	975	265 266	23	1401
Egan, Charles, Zanesville, Ohio., assignor of two-thirds to D. S. Robeson, New York, N. Y., and E. A. Leslie, Washington, D. C. Telephone	282,969	Aug. 14	584	165	24	611
Ege, Joseph A., *et al.* (See Hershey and Hitchcock, assignors.)						
Egelhoff Manufacturing Company. (See Bolte, Frank H., assignor.)						
Egells, Hermann, Berlin, Germany. Apparatus for cooling and freezing liquids	272,667	Feb. 20	1366	383	23	694
Eger, George, Covington, Ky. Cross-bow	272,418	Feb. 20	1052	295	23	639
Eger, John, assignor of three-fourths to W. H. Meyer, F. J. H. Wichman, Chicago, and H. Brueggeman, Mattison, Ill. Machine for smoothing stones	287,648	Oct. 30	2379	641	25	461
Egermann, William, *et al.* (See Schermerhorn, Herschel A., assignor.)						
Egerton, C. Calvert, assignor to Scott Manufacturing Company, Baltimore, Md. Standard for children's carriages	278,000	May 22	1817	496	23	1958
Egge, Frederick. (See Aberle, Fredrick, assignor.)						
Egge, Frederick, Bridgeport, Conn., assignor to Universal Button Hole Attachment Company, New York, N. Y. Clamp for button-hole sewing-machines	271,393	Jan. 30	1850	537	23	373
Egge, Frederick, assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Padlock	278,229	May 22	2103	579	23	2008
Egge, John J., *et al.* (See Beidler, Charles, assignor.)						
Eggert, Charles A. (See Baker, Christian E., assignor.)						
Eggleston, Charles H., Marshall, Mich. Wheel harrow and cultivator	272,668	Feb. 20	1368	384	23	694
Egin, William, Somerville, Mass. Elevator-bucket	270,035	Jan. 2	245	71	23	51
Egleston, Thomas. (See Durfee and Egleston.)						
Egleston, Thomas, New York, N. Y. Crucible, muffle, &c	284,287	Sept. 4	159	44	24	931
Egleston, Thomas, New York, N. Y., assignor to Plume & Atwood Manufacturing Company, Thomaston, Conn. Making electric conductors	286,796	Oct. 16	1280	345	25	247
Egli, Rudolf, Rapperschwyl, assignor to A. Bannwart, Zurich, Switzerland. Machine for making shoe and upholsterers' nails	280,458	July 3	152	41, 42	24	28
Egnor, James M., Catskill, N. Y. Stove-pipe and chimney attachment	287,258	Oct. 23	1873	513	25	358
Ehle, James A., St. Cloud, Wis. Hay-tedder	286,406	Oct. 9	790	213	25	153
Ehler, Berthold. (See Piepgrass, Ludwig, assignor.)						
Ehrhardt, John, assignor of two-thirds to H. and C. Hopmann, St. Louis, Mo. Skylight	283,339	Aug. 14	1036	291	24	693

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Ehrig, Charles S., *et al.* (See Beidler, Charles, assignor.)						
Ehrlich, Leo, St. Louis, Mo. Portable transfer-track	270,405	Jan. 9	699	207	23	146
Ehrlich, Paul, Gohlis, near Leipsic, Saxony, Germany. Mechanical musical instrument	290,672	Dec. 25	1650	454	25	1196
Eibee, Carl, Brooklyn, N. Y. Belt-coupling	275,896	Apr. 17	1342	369	23	1472
Eichelberger, Abdiel W., Hanover, Pa. Ice-creeper	272,669	Feb. 20	1369	384	23	694
Eichelberger, Abdiel W., assignor of one-half to J. W. Forney, Hanover, Pa. Chair	281,038	July 10	862	240	24	160
Eichholtz, William M., Williamsburg, Pa. Lifting-jack	276,371	Apr. 24	1932	536	23	1561
Eichling, Henry, and A. S. Fitch, New York, N. Y. Canopy-top for perambulators	281,675	July 24	1679	457	24	311
Eicke, Louis, New York, N. Y. Drill-stock	283,473	Aug. 21	1216	342	24	731
Eickemeyer, Rudolf, Yonkers, N. Y. Harvesting-machine	271,694	Feb. 6	129	36	23	402
Eickemeyer, Rudolf, Yonkers, N. Y. Machine for mounting hats on finishing-blocks	278,001	May 22	1818	497	23	1958
Eickemeyer, Rudolf, Yonkers, N. Y. Hat-felting machine	289,243	Nov. 27	1808	499 500	25	848
Eickemeyer, Rudolf, Yonkers, N. Y. Fulling-mill	289,901	Dec. 11	663	185	25	1009
Eickemeyer, Rudolf, Yonkers, N. Y. Hat-ironing machine	290,408	Dec. 18	1287	361	25	1130
Eimecke, Gustav, O., and W., Brunswick, assignors to S. Sudheim, Cassel, Prussia, Germany. Double-acting hot air engine	270,036	Jan. 2	246	72	23	51
Eimecke, Otto. (See Eimecke, Gustav, O., and W.)						
Eimecke, Wilhelm. (See Eimecke, Gustav, O., and W.)						
Einbigler, Rudolf, New York, N. Y. Electric gas-lighting apparatus	278,898	June 5	301	87	23	2175
Eisele, Joseph. (See Gore and Eisele.)						
Eisele, Samuel O. (See Unger and Eisele.)						
Eiseman, Solomon M., assignor to International Transportation Company, New York, N. Y. Treating volatile or inflammable fluids and oils	282,970	Aug. 14	585	.....	24	611
Eisenbise, Harry W. (See Hamm and Eisenbise.)						
Eisenmann, Edward J., New York, N. Y., and H. Kock, Hoboken, N. J.; said Eisenmann assignor to said Kock. Dressing-case	279,233	June 12	770	213	23	2265
Eisenmann, Raphael. (See Bendix, Josef, assignor.)						
Ekl, Martin A., A. Hoyda, M. Cizek, and V. Skala, St. Louis, Mo. Drag-saw	288,558	Nov. 13	968	266	25	684
Ekl, Martin A., V. Skala, A. Hoyda, and M. Cizek, St. Louis, Mo. Permutation-padlock	288,559	Nov. 13	969	266	25	685
Ekman, Carl D., London, England. Obtaining coloring-matters	282,971	Aug. 14	587	.....	24	612
Ekman, Carl D., Bergvik, Sweden, G. Fry, London, England, and W. B. Espeut, Jamaica, West Indies. Extraction of saccharine matter from vegetable substances	286,187	Oct. 9	501	.....	25	103
Ela, Roger J. (See Foulsham, Robert, assignor.)						
Elbers, Alexander D., Hoboken, N. J. Treating blast-furnace slag	278,002	May 22	1821	.....	23	1958
Elbreg, George, Columbus, Ohio. Disintegrating-mill	273,829	Mar. 13	765	207	23	973
Elder, Cornelius D., Osage, Iowa. Cream-transportation tank	285,348	Sept. 18	1450	409	24	1169
Elder, John, St. James, Mo. Car-coupling	270,768	Jan. 16	1168	334	23	243
Elder, Joseph, Peoria, Ill. Device for increasing the traction of locomotives	290,012	Dec. 11	799	225	25	1034
Elder, Joseph, assignor of one-half to B. A. Reid, Peoria, Ill. Device for packing bran, &c.	290,013	Dec. 11	800	225	25	1034
Eldred, Horace H. (See Scrivanow, Grégoire, assignor.)						
Eldredge, Alonzo W., Big Rapids, Mich. Portable steam-generator	282,618	Aug. 7	172	52	24	530
Eldredge, Alonzo W., Big Rapids, assignor to himself and A. Leitelt, Grand Rapids, Mich. Ice-machine	277,249	May 8	923	247	23	1791
Eldredge, John V. D., Detroit, Mich. Fire-pot for stoves and furnaces	283,584	Aug. 21	1347	376	24	756
Eldridge, Daniel, *et al.* (See Fuller, Willard M., assignor.)						
Eldridge, James W., Hartford, Conn. Padlock	277,469	May 15	1185	318	23	1843
Eldridge, Stuart, Yokohama, Japan, assignor of one-half to E. C. Hine and R. W. Beyrich, Brooklyn, N. Y. Doll	278,420	May 29	2374	648	23	2063
Electric Purifier Company. (See Kuhnmünch, Joseph, assignor.)						
Electric Tube Company. (See Kruesi, John, assignor.)						
Elfering, John H., Chicago, Ill. Electric-lamp cut-out	274,297	Mar. 20	1355	372	23	1082
Elfers, John F. C. (See Taylor and Elfers.)						
Elfrink, Jacob, Barrington, Ill. Platform-spring equalizer	282,972	Aug. 14	588	166	24	612
Elgin Tubular Iron Tower Company. (See Adams, John S., assignor.) (Reissue.)						
Eliel, Albert L., assignor of one-half to J. Hoelle, La Salle, Ill. Glass-blowing apparatus	282,870	Aug. 7	474	133	24	584
Elikan, Camil, San Francisco, Cal. Spool or bobbin	287,426	Oct. 30	2083	566	25	404
Elkins, Ida, Brooklyn, N. Y. Apparatus for killing mosquitoes	286,407	Oct. 9	791	213	25	154
Elliott, George C., *et al.* (See Whiting, James M., assignor.)						
Ellerbeck, Thomas R., and A. C. Young, Salt Lake City, Utah Ter. Hose and rope reel	286,406	Oct. 9	792	213	25	154
Ellery, Charles, Albany, N. Y. Automatic feeding device for printing-presses	272,419	Feb. 20	1054	206	23	639
Ellicott, H. William, Baltimore, Md. Hot-blast stove for blast-furnaces	276,790	May 1	338	90	23	1685
Ellicott, H. William, Baltimore, Md. Steam-generator	289,818	Dec. 11	556	156	25	990
Ellinwood, Augustus E. (See Miller and Ellinwood.)						
Elliot, Charles, San Francisco, Cal. Apparatus for purifying water for boilers	271,821	Feb. 6	286	78	23	491
Elliot, Charles F., *et al* (See Howe, Solon G., assignor.)						
Elliot, Henry, St. Louis, Mo. Railway-switch stand	289,633	Dec. 4	322	89	25	944
Elliot, John W., Toronto, Ontario, Canada. Dentist's flask	285,243	Sept. 18	1333	375	24	1147
Elliot, William H., New York, N. Y. Magazine fire-arm	274,578	Mar. 27	1738	482	23	1155
Elliot, William H., New York, N. Y. Magazine fire-arm	278,003	May 22	1821	498	23	1958
Elliot, William H., New York, N. Y. Magazine fire-arm	278,324	May 29	2250	617	23	2041
Elliot, William H., New York, N. Y. Magazine fire-arm	285,020	Sept. 18	1069	299	24	1101
Elliott, Charles B., Green Point, N. Y. Outrigger oar-lock	269,924	Jan. 2	121	36	23	25
Elliott, Charles W., assignor to himself, H. N. Ruggles, and M. Donnelly, Boston, Mass. Automatic sash lifter and lock	278,323	May 29	2249	617	23	2040
Elliott, Edmund. (See Hammond, Isaac B., assignor.)						
Elliott, Francis M., Summum, Ill. Check-rower	288,040	Nov. 6	315	89	25	561
Elliott, George E., assignor of one-half to E. J. Crangle, Calais, Me. Steam-actuated valve	283,226	Aug. 14	897	250	24	667
Elliott, George F., Charlestown, Mass. Intrenching-tool	285,594	Sept. 25	1751	496	24	1229
Elliott, George M. (See Moore, Charles, assignor.)						
Elliott, Gilbert R., Boston, Mass. Store-service system	279,862	June 19	1538	430	23	2400
Elliott, Gilbert R., assignor of one-half to M. Clark, Boston, Mass. Wire carriage-way	276,529	Apr. 24	2128	592	23	1615
Elliott, Gilbert R., assignor of one-half to M. Clark, Boston, Mass. Cash and parcel carrier	278,658	May 29	2662	728	23	2113
Elliott, Gilbert R., assignor of one-half to M. Clark, Boston, Mass. Cash and parcel carrier	278,659	May 29	2663	729	23	2113
Elliott, Gilbert R., assignor of one-half to M. Clark, Boston, Mass. Parcel-holder for elevated ways in stores	279,727	June 19	1382	386	23	2373
Elliott, Gilbert R., assignor of one-half to M. Clark, Boston, Mass. Cash and parcel carrier for store-service	283,087	Aug. 14	729	204	24	637
Elliott, Gilbert R., assignor of one-half to M. Clark, Boston, Mass. Store-service system	283,088	Aug. 14	730	205	24	637
Elliott, Gilbert R., Boston, Mass., assignor to Continental Cash Car Company, Baltimore, Md. Carrying system for stores	284,953	Sept. 11	974	273	24	1078

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Elliott, Gilbert R., Boston, Mass., assignor to Continental Cash Car Company, Baltimore, Md. Speed-governor for parcel-carriers in stores	284,954	Sept. 11	975	274	24	1078
Elliott, Hiel J., North Manchester, Ind. Gate	290,554	Dec. 18	1499	413	25	1166
Elliott, James, Montreal, Quebec, Canada. Grate-bar	290,872	Dec. 25	1006	526	25	1244
Elliott, James A., Anderson Court-House, S. C. Cotton-planter and guano-distributer combined	287,014	Oct. 23	1561	430	25	301
Elliott, James B., London, England. Fire-wheel for bicycle performances	288,413	Nov. 13	794	215	25	654
Elliott, James B. London, England. Bicycle riding-platform	288,414	Nov. 13	795	216	25	654
Elliott, James E. (See Bowyer and Elliott.)						
Elliott, James M., Jr., Gadsden, Ala. Sawdust-conveyer	271,822	Feb. 6	287	79	23	492
Elliott, John W., Rudd, Iowa. Sheaf-carrier	284,400	Sept. 4	294	83	24	953
Elliott, Leonard W., Green Point, N. Y. Velocipede	288,219	Nov. 13	527	147	25	609
Elliott, Noah B., and J. T. Lloyd, Holden, Mo. Clothes-pounder	278,522	May 29	2498	682	23	2085
Elliott, Robert T. (See Beecher and Elliott.)						
Elliott, Thomas E., Norfolk, Va. Self-closing hatchway	288,041	Nov. 6	316	89	25	562
Elliott, William, Evans, Colo. Paris-green distributer	280,157	June 26	1895	533	23	2470
Elliott, William F., and S. D. Lance, Columbus, Ohio. Foot-iron for vehicle dash-frames	275,811	Apr. 17	1242	342	23	1454
Elliott, William H. (See Park and Elliott.)						
Elliott, William V., assignor of one-half to G. Hall, Lima, Ohio. Water-heater for steam fire-engines	270,647	Jan. 16	1019	293	23	215
Elliott, William V., assignor of one-half to G. Hall, Lima, Ohio. Water-heater for fire-engines	279,085	June 5	581	159	23	2223
Elliott, William W., Reading, and W. J. Towne, Newton, Mass. Sink	275,755	Apr. 10	1160	318	23	1432
Ellis, Aldridge C., assignor of one-half to H. A. and G. F. Randall, Birmingham, Mich. Car-coupling	285,473	Sept. 25	1608	452	24	1202
Ellis, Charles W., Peoria, Ill. Fly-screen	270,037	Jan. 2	249	72	23	51
Ellis, Edwin. (See Crawford, Witsius A., assignor.)						
Ellis, Ferrand F., Vernon, N. Y. Soldering device	279,234	June 12	771	213	23	2965
Ellis, George B. (See Ellis, John, assignor.)						
Ellis, George W., Spencer, Ind. Bedstead	277,470	May 15	1187	318	23	1843
Ellis, John, assignor to G. B. Ellis, Pottstown, Pa. Thrashing-machine	285,595	Sept. 25	1752	497	24	1229
Ellis, John H., Boston, Mass. Device for preventing horses from cribbing	275,370	Apr. 10	659	176	23	1347
Ellis, Joseph F., Eau Claire, Wis. Butter-package	277,696	May 15	1452	392	23	1887
Ellis, Joseph L., assignor of one-half to J. A. Damon, Millington, Mich. Churn	273,671	Mar. 6	554	147	23	928
Ellis, Joseph L., assignor of one-half to J. A. and I. T. Damon, Millington, Mich. Velocipede	280,299	June 26	2072	583	23	2502
Ellis, Nathan C. (See Emerson, George W., assignor.)						
Ellis, Norton A., Boonesborough, Iowa. Siphon-faucet	273,495	Mar. 6	324	88	23	889
Ellis, Norton A., Boonesborough, Iowa. Siphon-faucet	283,987	Aug. 28	1837	518	24	857
Ellis, Ralph E., assignor of one-half to G. W. Crozier, Muncie, Ind. Folding carriage-top	283,873	Aug. 28	1698	478	24	831
Ellis, Robert. (See Aram, Jonathan G., assignor.)						
Ellis, Robert F., Whitt, Tex. Combined harrow, seed-planter, and cultivator	278,113	May 22	1947	534	23	1981
Ellis, William, Jr., North Lawrence, Kans. Road-scraper	273,830	Mar. 13	766	207	23	973
Ellithorp, Solomon B., Rochester, N. Y. Picture-hanger	287,113	Oct. 23	1691	463	25	327
Ellithorpe, Albert C., Chicago, Ill. Fire-escape	277,891	May 22	1687	460	23	1936
Ellrich Hardware Manufacturing Company. (See Ellrich, Robert C., assignor.)						
Ellrich, Robert C., Southington, assignor to Ellrich Hardware Manufacturing Company, Plantsville, Conn. Tool-handle	288,560	Nov. 13	970	267	25	685
Ellrich, Robert C. (See Allen and Ellrich.)						
Ellsworth, Dewitt, Riverdale, Mich. Feed-water alarm-indicator	284,195	Sept. 4	49	14	24	913
Ellsworth, John C. (See Adams, George L., assignor.)						
Ellsworth, John J., assignor of two-thirds to G. A. Watson, Langston, Mich. Vehicle shaft-support	280,459	July 3	157	43	24	29
Ellwanger, John W., and W. Eddington, St. Louis, Mo. Lock for elevator-gates	270,648	Jan. 16	1020	293	23	215
Ellwood & Co., I. L. (See Stover, Daniel C., assignor.)						
Ellwood, Everett C., Green's Farms, Conn. Seed-drill	289,520	Dec. 4	185	52	25	919
Ellwood, Hiram. (See Upham, Andrew J., assignor.)						
Ellwood, I. L., *et al.* (See Gunderson, Albert, assignor.)						
Ellwood, Isaac L., *et al.* (See Kittleson, Ole O., assignor.)						
Ellwood, Isaac L., *et al.* (See Root, William A., assignor.)						
Ellwood, Isaac L., *et al.* (See Stevens, Sidney M., assignor.)						
Ellwood, Isaac L., *et al.* (See Upham, Andrew J., assignor.)						
Ellwood, Isaac L., *et al.* (See Wells, David G., assignor.)						
Ellwood, Reuben, and A. J. Upham, Sycamore, Ill.; said Upham assignor to said Ellwood. Machine for manufacturing barbed fencing	278,523	May 29	2498	682, 683	23	2086
Elmer, Jacob, Biloxi, Miss. Railway-switch	277,697	May 15	1453	392	23	1887
Elmes, Charles F., Chicago, Ill. Sharpening horseshoe-calks	283,385	Aug. 21	1112	314	24	712
Elphinstone, William B. F., Musselburgh, Scotland, and C. W. Vincent, Holloway, county of Middlesex, England. Dynamo-electric machine	284,288	Sept. 4	159	44, 45, 46	24	931
Elphinstone, William B. F., Carberry Tower, Musselburgh, Scotland, and C. W. Vincent, Holloway, county of Middlesex, England. Dynamo-electric machine	288,042	Nov. 6	318	89, 90	25	562
Elrod, William M., Marshall, Mo. Camera-box	271,048	Jan. 23	1567	435	23	307
Elsinger, Daniel, assignor of one-half to M. W. Hughes, Scranton, Pa. Stove-grate	271,229	Jan. 30	1730	501	23	353
Elson, Alexander, and F. M. Crockett, Unionville, Mo. Device for converting motion	278,899	June 5	303	88	23	2175
Eltcrich, P. Otto, Nuremberg, Bavaria, Germany. Stove	291,011	Dec. 25	2097	578	25	1274
Elting, Irving, Poughkeepsie, N. Y. Thill-coupling	286,123	Oct. 2	421	115	25	78
Elton, Joseph. (See Strohm, Samuel D., assignor.)						
Eltonhead, William B., assignor to United States Lock Nut Company, (limited,) Philadelphia, Pa. Nut-lock	285,399	Sept. 25	1522	429	24	1167
Eltringham, William, Minersville, Pa. Miner's fuse	280,158	June 26	1896	534	23	2470
Elvecna, Charles, Detroit, Mich. Door-knob	280,728	July 3	469	134	24	84
Elward, John H., Stillwater, Minn. Traction-engine	272,670	Feb. 20	1370	384, 385	23	695
Elward, John H., Stillwater, Minn. Separator for portable steam-engines	275,615	Apr. 10	984	266	23	1402
Elward, John H., Stillwater, Minn. Secretary	275,616	Apr. 10	985	266	23	1402
Elward, John H., Polo, Ill. Engine-furnace	276,372	Apr. 24	1933	536	23	1581
Elward, John H., Polo, Ill. Feed-water heater	276,373	Apr. 24	1936	536	23	1582
Elward, John H., Polo, Ill. Portable engine-furnace	276,374	Apr. 24	1937	537	23	1582
Elward, John H., assignor to M. Elward, Polo, Ill. Horse-power	277,835	May 15	1611	440	23	1917
Elward, John H., assignor to M. Elward, Polo, Ill. Bed-plate for steam-engines	279,924	June 26	1617	454	23	2421
Elward, John H., assignor to M. Elward, Polo, Ill. Traction-engine	279,925	June 26	1618	455	23	2421
Elward, John H., assignor to M. Elward, Polo, Ill. Mowing-machine	279,926	June 26	1620	455	23	2421
Elward, John H., assignor to M. Elward, Polo, Ill. Horse-power	287,259	Oct. 23	1874	513	25	358

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Elward, Mary. (See Elward, John H., assignor.)						
Elwell, Orlando, Van Ettenville, N. Y. Counter-balance	284,827	Sept. 11	823	229	24	1050
Elwell, William D., Romeo, Mich. Lid for pots, kettles, &c	283,227	Aug. 14	898	251	24	667
Ely, Calvin A., Taylor Hill, Ill. Railway-gate	289,244	Nov. 27	1810	500	25	848
Ely, Charles M., assignor to W. C. Goodloe, Lexington, Ky. Varnish	289,766	Dec. 4	489	.....	25	971
Ely, Eugene A., Branchville, assignor of one-third to W. F. Ely, Afton, N. J. Apparatus for unloading hay	280,159	June 26	1897	534	23	2471
Ely, Philip, Centreville, N. J. Oil-can faucet	273,831	Mar. 13	767	208	23	973
Ely, Philip, Centreville, N. J. Stamping-die	275,897	Apr. 17	1342	370	23	1472
Ely, Theodore N., J. W. Cloud, Altoona, Pa., and E. B. Wall, Columbus, Ohio. Refrigerator-car	290,324	Dec. 18	1184	332	25	1111
Ely, William F. (See Ely, Eugene A., assignor.)						
Ely, William H. (See Miller, David L., assignor.)						
Emack, John D., Baldwin, N. Y. School-slate	288,698	Nov. 20	1146	315	25	721
Embree, E. B., *et al.* (See Fayette, Henry W., assignor.)						
Embree, J. R., *et al.* (See Fayette, Henry W., assignor.)						
Emerson, Benjamin K., Cleveland, Ohio. Horse-collar	282,450	July 31	2686	737	24	489
Emerson, Charles B., Lynn, Mass. Car-coupling	289,399	Dec. 4	33	10	25	893
Emerson, Charles T., Lawrence, Mass. Safety-guard for car-trucks	273,973	Mar. 13	938	258	23	1002
Emerson, Cyrus J., Jr. (See Greene and Emerson.)						
Emerson, Edward, and G. G. Cook, Humboldt, Iowa. Foot-rest for rocking-chairs	280,160	June 26	1898	534	23	2471
Emerson, George W., assignor to himself and N. C. Ellis, Lynn, Mass. Buffing-machine	281,355	July 17	1271	353	24	237
Emerson, George W., assignor of one-half to P. G. Jacobus, Oakland, Cal. Belt-replacer	289,793	Dec. 4	520	144	25	976
Emerson, Howard B., Charlestown, Mass. Combined razor strop and drawer	287,260	Oct. 23	1876	514	25	359
Emerson, James, Willimansett, Mass. Piano-stool	281,676	July 24	1680	457	24	311
Emerson, James, Willimansett, assignor of one-half to Holyoke Water Power Company, Holyoke, Mass. Apparatus for regulating the flow and delivery of water through canals, flumes, and water-ways	275,371	Apr. 10	660	176, 177	23	1347
Emerson, James E., Beaver Falls, Pa. Saw	281,252	July 17	1145	316	24	215
Emerson, James E., Beaver Falls, Pa. Saw	281,253	July 17	1147	316	24	216
Emerson, James E., Beaver Falls, Pa. Process of and machine for straightening, tempering, and flattening saw-blades	286,284	Oct. 9	641	171	25	127
Emerson, James F., *et al.* (See Simonds, George W., assignor.)						
Emerson, John P., assignor of one-half to E. Levering & Co., Baltimore, Md. Coffee-cooler	285,349	Sept. 18	1451	409	24	1169
Emerson, Lowe. (See Horton, George W., assignor.)						
Emerson, Ralph, *et al.* (See Whitney, Charles, assignor.)						
Emerson, Sumner A. (See Scott and Emerson.)						
Emery, Albert H., New York, N. Y. Pipe-joint	279,086	June 5	583	159	23	2223
Emery, Albert H., New York, N. Y. Pipe-coupling	279,087	June 5	584	159	23	2223
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Beam-scale	278,900	June 5	303	88	23	2175
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Beam-scale	278,901	June 5	306	88	23	2176
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Platform-scale	278,902	June 5	310	88, 89	23	2176
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Platform-scale	278,903	June 5	315	89	23	2177
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Platform-scale	278,904	June 5	318	90	23	2177
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Platform-scale	278,905	June 5	320	90	23	2178
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Weighing machinery	278,906	June 5	323	91, 92, 93	23	2178
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Pressure-gage	278,907	June 5	332	93	23	2180
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Pressure-gage	278,908	June 5	334	93	23	2180
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Pressure and vacuum gage	278,909	June 5	335	94	23	2180
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Pressure-gage	278,910	June 5	337	94	23	2181
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Dynamometer	278,911	June 5	339	94	23	2181
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Dynamometer	278,912	June 5	343	95	23	2182
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Weighing-machine and dynamometer	278,913	June 5	345	95	23	2182
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Machinery for testing the strength of metal	278,914	June 5	347	95, 96	23	2183
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Machinery for testing the strength of materials	278,915	June 5	352	96, 97, 98	23	2183
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Machine for testing the strength of materials	278,916	June 5	358	98, 99	23	2184
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Machine for testing the strength of materials	278,917	June 5	361	99, 100	23	2185
Emery, Albert H., New York, N. Y., assignor to Emery Scale Company, Stamford, Conn. Machinery for testing the strength of metal	278,918	June 5	366	100, 101, 102	23	2186
Emery, Charles E., Brooklyn, N. Y. Connected bridge-girder	279,927	June 26	1622	455, 456	23	2422
Emery, Charles E., Brooklyn, N. Y., assignor, by mesne assignments, to Emery Scale Company, Stamford, Conn. Hydraulic testing-machine	278,919	June 5	377	102, 103	23	2187
Emery, Charles L. L., assignor, by mesne assignments, to himself and O. F. Page, Biddeford, Me. Ring for spinning-frames	288,932	Nov. 20	1431	394	25	773
Emery, Cyrus. (See Smith, Walton D., assignor.)						
Emery, Lewis, and F. B. Stebbins, Galion, Ohio. Cutter-head	286,409	Oct. 9	793	214	25	154
Emery, Lorenzo W. (See McConnell, Robert B., assignor.)						
Emery Scale Company. (See Emery, Albert H., assignor.)						
Emery Scale Company. (See Emery, Charles E., assignor.)						
Emmerich & Co., Charles. (See Hammermiller, William, assignor.)						
Emmett, William, Logansport, Ind. Car-coupling	278,693	June 5	22	6, 7	23	2128
Emmick, Andrew C., assignor to himself and E. N. Hatcher, Columbus, Ohio. Axle-skein	282,289	July 31	2466	679	24	451

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Emmick, Andrew C., assignor to himself and E. N. Hatcher, Columbus, Ohio. Machine for forming axle-skeins	290,962	Dec. 25	2063	567, 568	25	1969
Emmons, Lucius H., assignor of one-half to L. Lybrand, Noblesville, Ind. Thill-coupling.	280,806	July 10	587	164	24	110
Empress Sewing Machine Company. (See Dearborn, Charles A., assignor.)						
Empson, John H., Cincinnati, Ohio. Non-heat-conducting package for ice-cream, &c.	281,851	July 24	1914	522	24	352
Emsley, John W., Worcester, Mass. Balloon	276,012	Apr. 17	1474	407	23	1495
Endebrock, George W., Cincinnati, Ohio. Hub-band	289,339	Nov. 27	1927	535	25	872
Endemann, Hermann, Brooklyn, assignor to G. L. Jaeger, New York, N. Y. Manufacture of matches	275,617	Apr. 10	987	.....	23	1403
Endemann, Hermann, Brooklyn, assignor to W. Pickhardt and A. Kuttroff, New York, N. Y. Production of sulpho-acid compound of betanaphthol	277,864	May 15	1649	.....	23	1923
Enders, William. (See Neff, Enders, and Fieser.)						
Enderson, George. (See Richardson and Enderson.)						
Engel, George, assignor of two-thirds to H. Boyd and P. Reitz, Buffalo, N. Y. Apparatus for forcing beer	275,756	Apr. 10	1161	319	23	1432
Engel, George, assignor of one-half to M. Engel, Buffalo, N. Y. Steam-radiator attachment.	275,757	Apr. 10	1163	319	23	1433
Engel, Joseph and R., Boston, Mass. Brush-holder	277,471	May 15	1187	319	23	1843
Engel, Lawrence. London, England. Umbrella or parasol	285,021	Sept. 18	1071	299	24	1102
Engel, Martin. (See Engel, George, assignor.)						
Engel, Robert. (See Engel, Joseph and R.)						
Engelbach, Augustus L., Leadville, Colo. Vehicle-wheel	284,621	Sept. 11	566	160	24	1006
Engelhardt, Charles E. (See Rantz and Engelhardt.)						
Engelking, George L., assignor to W. Starkey and G. E. Williams, Pittsburg, Pa. Gage-cock and low-water detector	275,175	Apr. 3	379	105	23	1292
Engelmann, Etienne I., St. Louis, Mo. Wood-fluting machine	283,874	Aug. 28	1698	478	24	831
Engels, Gottlieb. (See Brewer, Russell, assignor.)						
Engert, Adam C., Three Mills Lane, county of Middlesex, England. Steam-boiler and furnace	281,852	July 24	1915	523	24	352
Englaender, Joseph. (See Bapple, James W., assignor.)						
England, Alexander, Kingman, Me. Hide-splitter	290,555	Dec. 18	1500	414	25	1166
England, Henry J., Falls Church, Va. Sash-fastener	272,671	Feb. 20	1371	385	23	695
England, James, New York, N. Y. Cavity-plane	270,769	Jan. 16	1169	334	23	243
Engle, David H., Mount Joy, Pa. Shade-roller	284,543	Sept. 4	465	132	24	963
Engle, Jacob, Jr., Sharon Centre, N. Y. Awning for hop-pickers	276,791	May 1	339	90	23	1685
Engle, Stephen D., Hazleton, Pa. Engraving-machine	275,618	Apr. 10	988	267	23	1403
Englehart, Philip, Stanislaus County, Cal. Sulky-scraper	281,986	July 24	2076	569	24	380
English, Albert R., Rochester, N. Y. Scale-beam	279,548	June 19	1177	326	23	2337
English, Analdo M. (See Pratt and English.)						
English, Andrew J., Cincinnati, Ohio. Water-elevator	288,783	Nov. 20	1249	343	25	740
English, Robert. (See Black and English.)						
English, Thomas, Hawley, Dartford, county of Kent, England. Apparatus for subaqueous boring	286,797	Oct. 16	1281	346	25	247
Ennis, John, Stamford, Conn. Tide-water swimming-bath	270,293	Jan. 9	554	163	23	118
Ennis, John B., Ottumwa, Iowa. Cultivator	280,021	June 26	1744	489	23	2443
Eno, Joseph A., Newark, N. J. Railway-rail joint	276,792	May 1	339	91	23	1685
Enos, John A., assignor to R. H. Brown and F. E. Farnham, Peabody, Mass. Leather-splitting machine	277,413	May 8	1109	298	23	1823
Enos, John A., assignor of eight sixty-fourths to G. H. Low, Peabody, Mass. Electric voting-machine for legislative bodies	287,649	Oct. 30	2380	642	25	462
Enos, Silvanus F., Etna, Ill. Educational device	288,628	Nov. 20	1060	291	25	707
Enright, Joseph, San José, Cal. Traction-wheel	276,530	Apr. 24	2129	592	23	1615
Ensminger, Emanuel and H. S., Bloomington, Ill. Sash-fastener	282,290	July 31	2466	680	24	451
Ensminger, H. C. (See Moore, Joseph V., assignor.)						
Ensminger, Henry S. (See Ensminger, Emanuel and H. S.)						
Enterprise Manufacturing Company. (See Baker, John G., assignor.)						
Enterprise Manufacturing Company. (See Hyatt, Ely E., assignor.)						
Enterprise Manufacturing Company of Pennsylvania. (See Baker, John G., assignor.)						
Ephralm, Ferdinand, San Francisco, Cal. Rubber sole and heel for boots or shoes	282,710	Aug. 7	295	83	24	551
Eppler, Andrew, Jr. (See Smith and Eppler.)						
Eppler, Andrew, Jr., *et al.* (See Strickler, Albert E., assignor.)						
Eppler, Andrew, Jr., Quincy, Mass., assignor to Eppler Manufacturing Company, Portland, Me. Pegging-machine	269,840	Jan. 2	96	8	23	7
Eppler, Andrew, Jr., and E. C. Ray, assignors to D. Whittemore, Quincy, Mass. Eyeleting-machine	271,049	Jan. 23	1509	435	23	308
Eppler, Andrew, Jr., Boston, Mass., assignor to Union Fastening Company, Jersey City, N. J. Nailing-machine	283,228	Aug. 14	899	251, 252	24	667
Eppler Manufacturing Company. (See Eppler, Andrew, Jr., assignor.)						
Epps, Edwin. (See Nunn, James W., assignor.)						
Erb, John C., Newport, Ky., assignor of one-half to W. B. Burnet, Cincinnati, Ohio. Iron railing	282,180	July 31	2346	646	24	428
Erb, Samuel, Minneapolis, Minn. Adjusting edger-saws	289,819	Dec. 11	556	156	25	991
Erbacher, Frank W., *et al.* (See Clark, Henry, assignor.)						
Erbe, John, *et al.* (See Nies, Phillip, assignor.)						
Ercanbrack, Charles H., Alden, Ill. Device for converting motion	286,596	Oct. 16	1027	278	25	203
Erdman, Daniel H., Camden, N. J. Portable heater	286,410	Oct. 9	794	214	25	154
Erdman, Robert, and W. Phillips, Philadelphia, Pa. Combination-tool	276,793	May 1	340	91	23	1685
Erfort, John, *et al.* (See Held, August S., assignor.)						
Erickson, Daniel, Chicago, Ill. Sinker for fish-nets	286,188	Oct. 9	502	138	25	103
Ericsson, John, New York, N. Y. Speed-regulator	288,699	Nov. 20	1147	316	25	722
Erkenzweig, Gustav, Hagen, Prussia, Germany. Rolling-mill	281,474	July 17	1420	390	24	263
Erkenzweig, Gustav, Hagen, Prussia, Germany. Rolling-mill	281,475	July 17	1423	390	24	263
Erlanger, Charles, Baltimore, Md. Stay for garments	279,549	June 19	1178	326	23	2338
Erlanger, Charles, Baltimore, Md., assignor of two-thirds to C. E. Conover, Middletown, N. J., and J. Forgie, Chicago, Ill. Button and button-fastener	290,409	Dec. 18	1289	362	25	1130
Erlenborn, Charles C., Chicago, Ill. Oiler	277,555	May 15	1291	347	23	1859
Ernest, Charles E., *et al.* (See Reichling, Oscar E. H. N., assignor.)						
Ernst, John C., Cleveland, Ohio. Screw-hook	276,375	Apr. 24	1938	537	23	1582
Ernst, John G., assignor of one-half to J. D. Mallory, Baltimore, Md. Car-axle box	282,871	Aug. 7	475	134	24	585
Ernst, William H., Chase, Kans. Grain-weighing apparatus	278,114	May 22	1949	534	23	1981
Ernst, Wilson, Camden, N. J. Furnace	280,634	Dec. 4	322	90	25	944
Ersland, Amos K., Sheldahl, Iowa. Wagon-dump	280,592	July 3	307	85	24	55
Ervin, James R., Marshall, Mo. Sulky-plow	285,022	Sept. 18	1072	299	24	1102
Erwin, Andrew, *et al.* (See De Lamater, William, assignor.)						
Erwin, Henry J., Marysville, Ohio. Eaves-trough hanger	270,038	Jan. 2	250	72	23	51

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Erwin, James B. (See Brown, Wencel, assignor.)						
Erwin, James B., Milwaukee, Wis. Water-meter	286,285	Oct. 9	643	171	25	127
Erwin, Orlando R., Chicago, Ill. Street-car motor	270,938	Jan. 23	1374	396	23	266
Erwin, Thomas M., Verona, assignor of one-fourth to E. Fried, Allegheny City, Pa. Spring-washer for locking nuts	279,088	June 5	585	160	23	2223
Eshelman, Benjamin F., Harlan, Iowa. Dental plugger	290,014	Dec. 11	801	226	25	1035
Eshelman, John L., Leadville, Colo. Construction of sea-going vessels	279,863	June 19	1539	430	23	2400
Eskildson, Henry W., assignor to himself and C. A. Shaw, Boston, Mass. Hoop-cutting machine	273,966	Mar. 6	27	8	23	839
Eskrett, Cyrus, and W. H. Searle, Hull, county of York, England. Manufacture of oil-press mats	280,460	July 3	158	43	24	29
Espel, Ferdinand, San Francisco, Cal. Ice-cream freezer	274,298	Mar. 20	1356	372	23	1092
Espel, Ferdinand, San Francisco, Cal. Ice-cream freezer	277,250	May 8	924	247	23	1791
Espel, Ferdinand, San Francisco, Cal. Vegetable-slicer	280,161	June 26	1899	534	23	2471
Espeut, W. Bancroft. (See Ekman, Fry, and Espeut.)						
Essick, Samuel V., Alliance, Ohio. Printing-telegraph	279,550	June 19	1179	396, 397	23	2338
Estabrook, Alanson C., assignor to Florence Manufacturing Company, Florence, Mass. Manufacture of brushes	278,660	May 29	2664	729	23	2114
Estabrook, Alanson C., assignor to Florence Manufacturing Company, Florence, Mass. Machine for milling bone blanks for tooth-brushes	279,728	June 19	1383	386	23	2373
Estabrook, John S., *et al.* (See Eddy, Romulus A., assignor.)						
Estabrook, Joseph M., Milford, Mass. Metal sole-fastening	280,022	June 26	1745	490	23	2443
Estabrook, Joseph M., Milford, Mass. Machine for forming wire from sheet metal	280,023	June 26	1747	490, 491	23	2443
Estabrook, Joseph M., Milford, Mass. Belt-suspending device	290,219	Dec. 18	1050	295	25	1089
Estberg, William T., Brooklyn, N. Y. Window-shade	288,043	Nov. 6	320	90	25	562
Estell, Samuel F., Chicago, Ill. Glove and shoe buttoner	288,700	Nov. 20	1148	316	25	722
Estep, Thomas B., Cincinnati, Ohio, assignor of one-half to H. M. Stephenson, Covington, Ky. Street-car-switching system	280,300	June 26	2073	584	23	2502
Esterbrook, William P., assignor to G. W. Rader & Co., New York, N. Y. Chimney and ventilating flue	280,024	June 26	1749	491	23	2443
Esterly, George, Whitewater, Wis. Grain-binding machine	278,524	May 29	2501	663	23	2066
Esterly, George, Whitewater, Wis. Grain-binding machine	281,623	July 17	1607	440	24	293
Esterly, George, Whitewater, Wis. Grain harvesting and binding machine	282,065	July 31	2177	598, 599	24	403
Esterly, George, Whitewater, Wis. Grain-harvesting machine	288,784	Nov. 20	1251	343	25	740
Estes, Henry B., Manchester, N. H. Stopping mechanism for drawing-frames	289,902	Dec. 11	665	186	25	1009
Estey & Co., J. (See Foster, Edwin A., assignor.)						
Estey Organ Company. (See Fuller, Levi K., assignor.)						
Estill, John F., *et al.* (See Lutz, Charles H., assignor.)						
Esty, William, Laconia, N. H. Knitting-machine	276,146	Apr. 17	1643	453	23	1524
Etève, Eugène, and C. C. Lallement, Paris, France. Gas-engine	272,130	Feb. 13	685	187	23	570
Ethell, John J., St. Louis, Mo. Millstone	285,118	Sept. 18	1186	332	24	1121
Ethell, William J., and M. D. L. Swank, Anderson, Ind. Button-fastener	282,872	Aug. 7	476	134	24	585
Ethridge Heeling Machine Company. (See Ethridge, Martin V., assignor.)						
Ethridge, Martin R., Lynn, Mass. Lasting-machine	269,841	Jan. 2	27	8, 9	23	8
Ethridge, Martin R., Lynn, Mass. Manufacture of boots and shoes	269,842	Jan. 2	29	9	23	8
Ethridge, Martin V., assignor to Ethridge Heeling Machine Company, Boston, Mass. Shoe-heeling machine	271,617	Feb. 6	40	10	23	447
Ethridge, Martin V., assignor to Ethridge Heeling Machine Company, Boston, Mass. Heel-nailing machine	285,596	Sept. 25	1755	497, 498	24	1230
Etter, Cyrus H., Medford, Mass. Adjustable toe-weight for trotting horses	286,189	Oct. 9	503	139	25	104
Etzensperger, John. (See Fontneau, Frank, assignor.)						
Etzensperger, John, North Attleborough, Mass. Ornamental chain	281,853	July 24	1916	523	24	352
Etzensperger, John, North Attleborough, Mass. Slide for bracelets and chains	283,333	Aug. 14	1037	291	24	693
Eubank, Thomas, Gerard, Ill., assignor of one-half to R. A. Willett, Sedalia, Mo. Billiard-table leveler	285,739	Sept. 25	1938	549	24	1262
Eudaly, William A. (See Culbertson and Eudaly.)						
Eureka Silk Manufacturing Company *et al.* (See Landfear, William R., assignor.)						
Eustes, John. (See Eveland, William L., assignor.)						
Eustis, John P., Newark, N. J. Drinking-flask	285,597	Sept. 25	1756	498	24	1230
Eutebrouk, Charles H., Boston, Mass. Fire-arm	289,521	Dec. 4	187	52	25	919
Evans, Abner, Jr., New York, assignor of one-third to A. Hicks, West New Brighton, N. Y. Target and ring game	281,624	July 17	1609	440	24	293
Evans, Austin C., Springfield, Ohio. Fertilizing attachment for corn-planters	280,367	July 3	33	9, 10	24	8
Evans, Austin C., Springfield, Ohio. Harrow	281,755	July 24	1787	487	24	330
Evans, Austin C., Springfield, Ohio. Corn-planter	281,756	July 24	1789	487, 488, 489	24	330
Evans, Austin C., Springfield, Ohio. Seat-bar for vehicles	282,181	July 31	2347	646	24	429
Evans, Charles A., Salem, N. H., assignor to himself and T. S. Very, Boston, Mass. Flocked fabric or imitation textile fabric	275,176	Apr. 3	380	.....	23	1292
Evans, Charles T., *et al.* (See Kennedy, Samuel A., assignor.)						
Evans, Darius P., Nevada, Mo. Tire-tightener	271,050	Jan 23	1511	435	23	308
Evans, Edward, Mansfield, Ohio. Railway-crossing	275,028	Apr. 3	195	52	23	1258
Evans, Edwin B. (See Harris and Evans.)						
Evans, Edwin J., Leavenworth, Kans. Lifting-jack	270,649	Jan. 16	1021	293	23	215
Evans, Franklin J., Iowa Falls, Iowa. Breech-loading fire-arm	283,089	Aug. 14	731	205	24	637
Evans, G. Frank, Mechanic Falls, Me. Machine for reducing wood to pulp and fiber	279,551	June 19	1183	327	23	2338
Evans, George R. (See Blochman and Evans.)						
Evans, George W., Baltimore, Md. Milk and cream can	274,745	Mar. 27	1928	537	23	1190
Evans, George W., Baltimore, Md. Spigot	287,427	Oct. 30	2084	566	25	404
Evans, Harry M., *et al.* (See Kennedy, Samuel A., assignor.)						
Evans, Harry N., assignor of two-thirds to G. Corbion, Jr., and W. D. Mull, Philadelphia, Pa. Heat and gas regulator	273,716	Mar. 13	609	163	23	946
Evans, Henry H., *et al.* (See Fuller, Joseph, assignor.)						
Evans, James, Oneonta, N. Y. Railway-switch	283,875	Aug. 28	1699	479	24	831
Evans, John, Etna, assignor of one-half to Spang, Chalfant & Co., Allegheny city, Pa. Puddling-furnace	270,184	Jan. 2	418	121	23	85
Evans, John, and R. Low, Dundee, county of Forfar, Scotland. Gun and its projectile for throwing life-lines	281,041	July 10	866	241	24	160
Evans, John E., Spanish Fork, Utah Ter. Harness-tug hook	281,987	July 24	2076	570	24	381
Evans, John E., Spanish Fork, Utah Ter. Barbed-wire fence	287,261	Oct. 23	1876	514	25	359

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Evans, John W., Cleveland, Ohio. Process of and apparatus for separating naphtha from oil	281,039	July 10	863	240	24	160
Evans, John W., Cleveland, Ohio. Extraction of oils from vegetable and animal matter	281,040	July 10	865	240	24	160
Evans, John W., Cleveland, Ohio. Process of and mechanism for extracting oil	285,598	Sept. 25	1757	498	24	1230
Evans, Matthias F., Nevada, Mo. Roller-skate	285,599	Sept. 25	1759	499	24	1231
Evans, Miner H. A., *et al.* (See Ballou, Hiram P., assignor.)						
Evans, Othniel B., assignor of one-half to A. Hunt, Philadelphia, Pa. Water-closet	284,544	Sept. 4	466	132	24	983
Evans, Pierce. (See Kinkead, James H., assignor.)						
Evans, Plummer & Co. (See Plummer, Charles S., assignor.)						
Evans, Thomas, Gravesend, assignor of two-thirds to W. H. Roberts, New York, and C. R. Turner, Brooklyn, N. Y. Fifth-wheel	289,767	Dec. 4	489	136	25	971
Evans, Thomas E. (See Allison, John, and Evans.)						
Evans, W. Warrington, Washington, D. C. Apparatus for forming dental plates	279,365	June 12	952	264, 265	23	2294
Evans, W. Warrington, Washington, D. C. Dental plugger	279,928	June 26	1625	456	23	2492
Evans, William, Providence, R. I. Picker-stick-operating mechanism for looms	281,254	July 17	1148	316	24	216
Evans, William, Providence, R. I. Loom	281,476	July 17	1424	390, 391	24	263
Evans, William H., Boston, Mass. Tongs	276,572	May 1	38	10	23	1633
Evans, William K., Berkley, assignor to himself and J. Y. Anthony, Taunton, Mass. Spinning-ring	272,868	Feb. 27	1642	459	23	750
Evansville Pump Company. (See Eames, Wilfred, assignor.)						
Evarts, Charles A., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Hanging lamp	284,955	Sept. 11	975	274	24	1078
Evarts, James M., New Haven, Conn. Machine for bending pipe	275,029	Apr. 3	198	53	23	1259
Evarts, John A., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Friction-brake for elevating devices	287,262	Oct. 23	1877	514	25	359
Eveland, William L., Port Stanley, Ontario, assignor of one-half to J. Eustes, Fingal, Canada. Plumb-level	274,089	Mar. 13	1080	298	23	1027
Eveleth, Frederick A., Cynthiana, Ky. Device for making cart-saddles	288,933	Nov. 20	1432	394	25	773
Evenden, James W., Rome, N. Y. Ale-condenser	278,525	May 29	2502	683	23	2086
Evens, John R. (See Duncan and Evens.)						
Everding, John, Newark, N. J., assignor to Celluloid Manufacturing Company, New York, N. Y. Machine for breaking or cutting up sheets of celluloid or other compounds of pyroxyline	286,535	Oct. 9	941	254	25	182
Evered, John, Macy, Ind. Mole-trap	285,490	Sept. 25	1523	429	24	1187
Evered, Joshua. (See Farr and Evered.)						
Everet, Charles G., Bellefontaine, Ohio. Automatic check-row corn-planter	272,222	Feb. 13	791	220	23	589
Everett, Charles D. (See Johns, Charles T., assignor.)						
Everett, Charles J., Tenafly, N. J. Soap	276,376	Apr. 24	1938	.....	23	1589
Everett, Edward H. (See Parkhurst, Amos F., assignor.)						
Everett, Pierce E. (See Prier, Doherty, and Everett.)						
Everett, Pierce E. (See Prier, Doherty, and Everett.)						
Everett, Sidney J., assignor, by mesne assignments, to Fishkill Manufacturing Company, New York, N. Y. Folding box	276,676	May 1	182	47	23	1655
Everiss, Joseph E., Adrian, Mich. Pillow	273,974	Mar. 13	939	258	23	1002
Everitt, James. (See Vero and Everitt.)						
Everitt, John, Prairie City, Ill. Pump	282,973	Aug. 14	588	166	24	612
Everitt, Percival, London, England. Cigarette-machine	274,746	Mar. 27	1929	537, 538	23	1190
Evesson, Martin V. B., Hoboken, N. J. Oscillating chair	281,477	July 17	1427	391	24	263
Evesson, Martin V. B., Hoboken, N. J. Oscillating chair	283,988	Aug. 28	1838	518	24	857
Evesson, Martin V. B., Hoboken, N. J. Treadle attachment for rocking-chairs	290,634	Dec. 18	1001	439	25	1182
Evinger, Noah, Terre Haute, Ind. Seed-planter	281,677	July 24	1681	458	24	311
Ewan, John T., Bethalto, Ill. Machine for scouring wheat, &c	287,370	Oct. 23	2012	547	25	384
Ewart Manufacturing Company. (See Ewart, William D., assignor.)						
Ewart Manufacturing Company. (See Howe, Eugene L., assignor.)						
Ewart, William D., assignor to Link-Belt Machinery Company, Chicago, Ill. Clutch	272,947	Feb. 27	1737	485	23	765
Ewart, William D., Chicago, Ill., assignor to Ewart Manufacturing Company, of Illinois. Drive-chain	280,729	July 3	469	134	24	84
Ewing, John H., Wheeling, W. Va. Lantern	278,920	June 5	381	103, 104	23	2188
Ewing, John H., and E. L. Bill, Wheeling, W. Va. Lamp and lantern	275,474	Apr. 10	805	217	23	1371
Ewing, Orville, and G. A. Henderson, Decatur, Ill. Ditching-machine	283,765	Aug. 28	1572	444, 445	24	810
Ewing, William L., Wheeling, W. Va. Making glass lamps	277,414	May 8	1110	298	23	1823
Ewing, William L., Wheeling, W. Va. Lamp	281,678	July 24	1682	458	24	311
Ewins, James A., assignor to T. B. Barker, Birmingham, county of Warwick, England. Gas-engine	278,421	May 29	2374	648	23	2063
Ewins, Philo S., West Berkshire, Vt. Sorghum-evaporator	284,123	Aug. 28	2028	565	24	889
Excelsior Hatch Company. (See Fraser, Daniel, assignor.)						
Excelsior Manufacturing Company. (See O'Keefe, John O., assignor.)						
Excelsior Manufacturing Company. (See Schafer, Joseph D., assignor.)						
Excelsior Manufacturing Company. (See Smullen, Daniel, assignor.)						
Exner, William, Harper's Ferry, W. Va. Sled	284,196	Sept. 4	50	14	24	913
Eybel, Bernhard, New York, N. Y. Pencil-holder	271,439	Jan. 30	2003	578	23	402
Ever, John, Jr., Morrill, Kans. Cooking utensil	281,042	July 10	867	241	24	160
Evl, Emil C., Jefferson City, Mont. Ter. Car-coupling	275,177	Apr. 3	381	105	23	1292
Evl, Emil C., Jefferson City, Mont. Ter. Fire-escape	285,740	Sept. 25	1939	549	24	1262
Eyster, Edward G., assignor of one-half to J. D. Miller, York, Pa. Broom-holder	279,481	June 12	1091	301	23	2316
Ezell, Charles M., Baskinton, La. Car-coupling	273,045	Feb. 27	1851	518	23	786
Ezell, Francis L., Nashville, Tenn. Plow	272,223	Feb. 13	792	220	23	589
Faas, Gustav A., assignor of one-fourth to A. P. Usher, Lawrence, Kans. Extension-table	290,180	Dec. 11	969	279, 280	25	1070
Faber, Eberhard. (See Schrag, Philip, assignor.)						
Faber, Henry C., Utica, N. Y. Trunk	284,197	Sept. 4	51	14	24	913
Fabing, Frederic. (See Blue, Dennis S., assignor.)						
Fabric Fire Hose Company. (See Gillespie, James E., assignor.)						
Facer, James A., and A. Schaub, Philadelphia, Pa.; said Schaub assignor to said Facer. Device for manufacturing car-wheel tires	271,823	Feb. 6	288	79	23	492
Fachmon, Oswald, Lindsey, Ohio. Drag-saw	285,982	Oct. 2	252	71	25	48
Faessler, John, Moberly, Mo. Flue-expander	270,770	Jan. 16	1170	335	23	243
Fagan, Thomas B., assignor of one-half to W. Smith, Van Wert, Ohio. Tile-ditching machine	275,372	Apr. 10	664	177	23	1347

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Fagnant, Benjamin, *et al.* (See Chassé, Joseph G., assignor.)						
Fahrig, Frank E., Scranton, Pa. Furnace for burning culm and other fine fuel	289,400	Dec. 4	34	10	25	893
Fahrney, Andrew, Milledgeville, Ill. Mechanical movement	290,290	Dec. 18	1052	296	25	1089
Fahys Watch Case Company. (See Lamont, James, assignor.)						
Fair, George W., assignor of one-half to W. Walker, Jr., Dayton, Ohio. Heating-furnace	284,545	Sept. 4	467	133	24	984
Fair, Nathaniel G., Bristol, Tenn. Tinner's machinery	271,440	Jan. 30	2004	578	23	402
Fairbanks, Charles M. (See Woodward and Fairbanks.)						
Fairbanks, Charles M., New York, N. Y., assignor to E. A. Wilkinson, trustee, Newark, N. J. Sewing-machine treadle	269,925	Jan. 2	122	36	23	25
Fairbanks, Charles N., Sturgis, Mich. Jeweler's tool	271,051	Jan. 23	1512	436	23	309
Fairbanks & Co., E. & T. (See Fairbanks, Franklin, assignor.)						
Fairbanks & Co., E. & T. (See Merrill, John A., assignor.)						
Fairbanks & Co., E. & T. (See Miller, Charles C., assignor.)						
Fairbanks, Crawford M., Pawtucket, R. I. Tool-handle	285,802	Oct. 2	25	9	25	6
Fairbanks, Crawford M., Pawtucket, R. I. Tool-handle	286,124	Oct. 2	422	115	25	78
Fairbanks, Franklin, assignor to E. & T. Fairbanks & Co., St. Johnsbury, Vt. Platform-scale	285,600	Sept. 25	1760	499	24	1231
Fairbanks, Harlan, assignor to New England Patent Fire Escape Company, Boston, Mass. Fire-escape	277,415	May 8	1112	298	23	1823
Fairbanks, Henry, St. Johnsbury, Vt. Feed-water heater	290,015	Dec. 11	803	226	25	1035
Fairchild, Frederick, *et al.* (See Fairchild, George S., assignor.)						
Fairchild, George S., assignor of two-thirds to F. Fairchild and L. Herring, Brooklyn, N. Y. Bottle	282,974	Aug. 14	589	166	24	612
Fairchild, Le Roy W. (See Collard, Richard M., assignor.)						
Fairfield, Thomas D., Cleveland, Ohio. Process of and apparatus for chilling paraffine-oils, &c	290,016	Dec. 11	804	226	25	1035
Fairlamb, Charles C., deceased, (C. T. Clark, administrator,) Chicago, Ill. Nut-lock	278,230	May 22	2104	579	23	2008
Fairman, Harry E., San Francisco, Cal. Post-driver	276,677	May 1	184	48	23	1655
Fairman, Harry E., Plymouth, Mich. Post-driver	285,881	Oct. 2	130	37	25	25
Falconer, John S., Pardeeville, Wis. Chicken-crate	273,496	Mar. 6	325	88	23	869
Falconer, William, Foster's Mills, Pa. Machine for the manufacture of carbon-black	277,472	May 15	1188	319	23	1843
Falconnet, Eugene F., Nashville, Tenn. Aerial ship	270,939	Jan. 23	1376	{397 {398	{23	287
Fales & Jenks Machine Company, *et al.* (See Booth, John, assignor.)						
Falk, Leonard. (See June and Falk.)						
Falkenberg, Charles, and J. Lederer, New York, N. Y. Shirt	270,039	Jan. 2	251	73	23	51
Fallesen, Christian, and J. M. Jensen, Brooklyn, N. Y.; said Jensen assignor to said Fallesen. Fifth-wheel for vehicles	278,786	June 5	150	44	23	2148
Fallon, William, Newburg, N. Y. Dumping-car	287,650	Oct. 30	2383	643	25	462
Fallows, James, Philadelphia, Pa. Toy car, wagon, or other vehicle	273,046	Feb. 27	1852	519	23	786
Fallows, James, Philadelphia, Pa. Toy	278,694	June 5	24	7	23	2129
Famous Shoe and Clothing Company, *et al.* (See Jones, Richard F., assignor.)						
Fanckboner, William, *et al.* (See Colvin, Orson, assignor.)						
Fancher, Alton H., Brooklyn, assignor to American Package Company, New York, N. Y. Metal box hinge	284,828	Sept. 11	823	239	24	1050
Fannin, Oliver P., West Wynnton, Fla. Bale-tie	278,787	June 5	151	45	23	2148
Fanning, James, Salem, Mass. Cash-desk	278,921	June 5	382	{104 {105	{23	2128
Fanning, James, Salem, Mass. Lantern	282,291	July 31	2467	680	24	451
Farbwerke Hoechst, vormals Meister, Lucius & Brüning. (See Limpach, Leonhard, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Fischer, Eugen, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Fischer, Otto, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Rudolph, Christian, assignor.)						
Farley, Alfred D. F., Leavenworth, Kans. Croquet set	280,807	July 10	587	164	24	110
Farley, Jesse K. (See Oberle and Janggen, assignors.)						
Farley, John P., Kansas City, Mo. Hydrant	289,903	Dec. 11	667	186	25	1010
Farley, Michael, Portland, Oreg. Instrument for surveying inaccessible heights, &c	288,321	Nov. 13	661	183	25	631
Farley, Michael, assignor of one-half to D. P. Kennedy, Portland, Oreg. Bevel-square	285,601	Sept. 25	1763	499	24	1231
Farlin, Dudley. (See Gibbon, Thomas H., assignor.)						
Farmer, George P. (See Fest, Charles P., assignor.)						
Farmer, George P. (See Jenkins, Joel, assignor.)						
Farmer, George P., *et al.* (See Smith, Luella E., assignor.)						
Farmer, George P., Montclair, N. J. Button. (Reissue)	10,340	June 12	1134	314	23	2323
Farmer, George P., Montclair, N. J. Button	275,619	Apr. 10	989	267	23	1403
Farmer, Hannah T., Newport, R. I. Head-protector	290,017	Dec. 11	805	226	25	1035
Farmer, Henry, Richmond, Ind., assignor of one-half to H. P. Deuscher, Hamilton, Ohio. Check-rower cord	274,579	Mar. 27	1741	483	23	1156
Farmer, Henry, Richmond, Ind., assignor of one-half to H. P. Deuscher, Hamilton, Ohio. Check-row seeder	274,580	Mar. 27	1741	483	23	1156
Farmer, James C. (See White and Farmer.)						
Farmer, James C., Providence, R. I., and R. A. Calder, Lynn, Mass. Rod-packing	285,244	Sept. 18	1334	376	24	1148
Farmer, James C., Providence, R. I., assignor to himself, C. E. Ferreira, Quincy, D. A. Brooks, Braintree, C. H. Brown, and A. A. Reeve, Boston, Mass. Locomotive smoke-box	275,812	Apr. 17	1243	342	23	1454
Farmer, Moses G., Newport, R. I. System of electric lighting	285,602	Sept. 25	1763	500	24	1231
Farmer, Moses G., Newport, R. I. System of electrical generation and distribution	290,873	Dec. 25	1907	527	25	1944
Farmer, William, Wytheville, Va. Adjustable chair-support	280,593	July 3	308	85, 86	24	55
Farmer's Friend Manufacturing Company. (See Runstetler, Andrew and M., assignors.)						
Farmer's Friend Manufacturing Company. (See Runstetler, Michael and A., assignors.)						
Farmer's Friend Manufacturing Company. (See Runstetler and Marlay, assignors.)						
Farmers Protective Union. (See Edwards, Alfred, assignor.)						
Farnham, Frank E., *et al.* (See Enos, John A., assignor.)						
Farnham, Frank G., assignor to himself and C. W. Demarest, White Mills, Pa. Gun-wad	288,168	Nov. 6	462	129	25	588
Farnham, Isaiah H., Portland, Mo. Telephone system and apparatus	281,478	July 17	1428	391	24	263
Farnham, Orison L., assignor to J. H. Paddock, St. Johnsbury, Vt. Ore-separating machine	284,401	Sept. 4	295	83	24	954
Farnham, Thomas H., assignor to Union Carpet Lining Company, Boston, Mass. Machine for folding carpet-linings	270,940	Jan. 23	1380	399	23	287
Farnsworth, Charles L., Detroit, Mich. Button-fastener	280,730	July 3	471	134	24	84
Farnsworth, George C. (See Sherwood and Farnsworth.)						
Farnsworth, Hattie A., New York, N. Y. Muff	275,373	Apr. 10	665	177	23	1348
Farnum, George, Swampscott, Mass. Car-axle	269,926	Jan. 2	123	36	23	26
Farnum, John R., Waltham, Mass. Screen or grid for gas-purifiers	283,090	Aug. 14	732	205	24	638
Farnum, William C., assignor of one-fourth to E. S. Peck, Hoosick Falls, N. Y. Weighing-scale	279,864	June 19	1541	431	23	2401

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Farquhar, John F. C., Long Acre, county of Middlesex, England. Steadying floating vessels	283,091	Aug. 14	733	206	24	638
Farr, Freeman S., and J. Evered, Muskegon, Mich. Log-roller	288,415	Nov. 13	797	216	25	654
Farr, George, Cincinnati, Ohio. Smoke and gas consuming furnace	272,035	Feb. 13	559	151, 152	23	549
Farr, George, assignor of one-half to J. R. Whittemore and M. Spickerman, Cincinnati, Ohio. Gas-consuming furnace	286,286	Oct. 9	645	172	25	127
Farr, Hiram G., Boston, Mass. Ring for halters, tie-straps, pessaries, &c.	277,473	May 15	1190	320	23	1844
Farr, Hiram G., Boston, Mass. Uterine supporter	286,798	Oct. 16	1282	346	25	247
Farr, Willis M., Dowagiac, Mich. Sand-protector for vehicles	270,650	Jan. 16	1022	294	23	216
Farr, Willis M., Dowagiac, Mich. Sand-band for vehicles	273,832	Mar. 13	768	208	23	974
Farr, Willis M., Dowagiac, Mich. Sand-band	282,066	July 31	2181	599	24	403
Farra, Walter H., assignor of two-thirds to M. M. and C. A. R. Moore, Mount Jackson, Va. Cutter-bar for harvesters	278,992	June 5	383	105	23	2168
Farrar, Benjamin F., San Francisco, Cal. Sofa-bed	278,004	May 22	1823	498	23	1959
Farrar, Charles F., South Lyon, and A. Bowman, Mason, Mich. Stock-food steamer and evaporator	279,142	June 12	675	186	23	2249
Farrar, George F., Hoosick Falls, N. Y. Horse hay-rake	276,013	Apr. 17	1475	407	23	1496
Farrell, Francis A., Brooklyn, N. Y. Fare-box	270,651	Jan. 16	1023	294	23	216
Farrell, Franklin. (See Moore, Harry F., assignor.)						
Farrell, Henry K. (See Lonergan and Farrell.)						
Farrell, John, Huntsville, N. J. Hay fork and carrier	273,350	Mar. 6	143	40, 41	23	858
Farrell, John, Pittsburg, Pa. Coiling lead pipe	278,695	June 5	25	7	23	2129
Farrell, John, Pittsburg, Pa. Coiling lead pipe	278,696	June 5	26	8	23	2129
Farrell, John, Pittsburg, Pa. Machine for making electric cables. (Reissue)	10,401	Nov. 6	497	138	25	594
Farrell, John, Pittsburg, Pa. Machine for making electric cables. (Reissue)	10,402	Nov. 6	501	139	25	595
Farrell, Sylvester, *et al.* (See Jensen, Mathias, assignor.)						
Farrell, William E. (See Thompson and Farrell.)						
Farren, William D., Boise City, Idaho Ter. Telegraph-key	270,652	Jan. 16	1024	294	23	216
Farrington, De Witt C., Lowell, Mass. Electric railway-signal	279,929	June 26	1627	456, 457	23	2423
Farrington, George K. and H. C., Kirksville, Mo., assignors of one-third to B. S. Potter, Edinborough, Pa.; said George K. Farrington assignor to said H. C. Farrington. Mechanical telephone	271,324	Jan. 30	1851	537	23	373
Farrington, Homer C. (See Farrington, George K. and H. C.)						
Farrington, James M., assignor to J. E. Gage, Concord, N. H. Sight for fire-arms	285,474	Sept. 25	1609	452	24	1204
Farrington, South R. (See Clark, Farrington, and Sheard.)						
Farrington, Thomas B. (See Oberst, Peter J., assignor.)						
Farrington, Thomas B., Minneapolis, Minn. Stay for garments	287,916	Nov. 6	158	46	25	535
Farrington, Thomas B., Minneapolis, Minn. Drier	289,635	Dec. 4	324	90, 91	25	945
Farris, Edwin B., Palermo, Me., assignor to Oglesby, Moore & Co., Middletown, Ohio. Blotting-paper	283,474	Aug. 21	1217	342	24	731
Farris, William H. (See Horrall, William A., assignor.)						
Farrish, William F., *et al.* (See Simpson, Andrew J., assignor.)						
Farson, Enoch S., Philadelphia, Pa. Refrigerator	275,620	Apr. 10	990	267	23	1403
Farson, Enoch S., Philadelphia, Pa. Shoe-blacking apparatus and chair combined	275,621	Apr. 10	991	268	23	1403
Farthing, John, Chicago, Ill. Water-closet shut-off	270,211	Jan. 9	459	133	23	101
Farwell, Frederick E., Fitchburg, Mass. Shoe	275,813	Apr. 17	1243	342	23	1454
Farwell, Lalon Z., *et al.* (See Hazlett, Frederic B., assignor.)						
Farwell, Willard B., New York, N. Y., assignor of five-eighths to J. Landers and I. M. Taylor, San Francisco, Cal. Dry-ore concentrator	274,581	Mar. 27	1743	484	23	1156
Farwell, Willard B., assignor of five-eighths to J. Landers and I. M. Taylor, San Francisco, Cal. Dry-ore concentrator	278,325	May 29	2254	617	23	2041
Fashing, John, Winfield, Kans. Car-coupling	276,168	Apr. 24	1672	461	23	1536
Fassitt, John H., Philadelphia, Pa. Dog-collar	272,036	Feb. 13	562	152	23	550
Fassler, Jerome, *et al.* (See Green, George F., assignor.)						
Fatjo, John. (See Sweatt, Leroy A., assignor.)						
Faucette, James B., Searcy, Ark. Washing-machine	271,230	Jan. 30	1731	501	23	353
Faucette, James B., Dover, Ark. Theodolite	289,401	Dec. 4	35	11	25	893
Faught, Luther R., Philadelphia, Pa. Boring-bar	289,522	Dec. 4	188	53	25	919
Faulkner, Daniel A., Sacramento, Cal. Dirt-scraper	290,410	Dec. 18	1291	362	25	1130
Faulkner, Thomas D., Fort Mill, S. C. Spring-motor	273,047	Feb. 27	1853	519	23	786
Faulstich, Wendelin, Belleville, Ill. Chimney-top	286,597	Oct. 16	1029	278	25	203
Faust, Abraham, Allegheny city, Pa. Shaft-coupling	287,651	Oct. 30	2385	643	25	463
Fawcett, Fred, St. Louis, Mo. Removable calk for horseshoes	272,672	Feb. 20	1373	385	23	695
Fawcett, Richard, Salem, Ohio. Shifting seat for vehicles	272,420	Feb. 20	1056	296, 297	23	639
Fawcett, Thomas C., and J. C. Hargreaves, Leeds, county of York, England. Preventing boiler explosions	282,292	July 31	2468	680	24	451
Fawcett, William, New York, N. Y. Hame-tug	283,475	Aug. 21	1217	342	24	732
Fawkes, Joseph W., Storm Lake, Iowa. Show-case	279,366	June 12	954	265	23	2294
Fay, Albert T., Oak Park, Ill. Railway-switch	276,794	May 1	341	91	23	1685
Fay, Bernard, Pittsburg, Pa. Burglar-alarm	285,023	Sept. 18	1073	300	24	1102
Fay, Georgianna, Richmond, Va. Newspaper-wrapper	278,928	June 5	384	105	23	2188
Fay, Moses, Townville, Pa. Rotary engine	280,162	June 26	1899	535	23	2471
Fay, Rimmon C., assignor to G. Draper & Sons, Hopedale, Mass. Knot-tying apparatus	280,921	July 10	718	202	24	133
Fayette, Henry W., New York, assignor of one-half to J. R. and E. B. Embree, Westchester, N. Y. Attachment for cupola-furnaces for receiving the dump	287,527	Oct. 30	2207	599	25	429
Fearey, George D., Albany, N. Y. Sandpapering-machine	282,509	Aug. 7	39	12	24	507
Fearn, John, Washington, D. C. Spring-motor	272,830	Feb. 20	1567	441	23	730
Fearon, Thomas, Yonkers, N. Y. Outrigger-boat	271,441	Jan. 30	2006	579	23	402
Fechteler, Henry, assignor to himself and R. Artmann, New York, N. Y. Wall-decoration	281,679	July 24	1683	458	24	311
Feess, John, Marysville, Cal. Sulky-harrow	275,030	Apr. 3	198	53	23	1259
Fegley, Willoughby, Ovid, N. Y. Fly-net for horses	270,040	Jan. 2	251	73	23	51
Feister, Henry P., Philadelphia, Pa. Multicolor-printing machine	273,672	Mar. 6	554	147	23	999
Feix, Johann, Albrechtsdorf, Austria-Hungary. Production of enameled or metallized glass	276,014	Apr. 17	1476	.....	23	1496
Felbel, Jacob, New York, N. Y. Paper box	278,526	May 29	2503	684	23	2086
Felber, Arthur, Nyack, N. Y. Stop-motion for button-hole sewing-machines	275,622	Apr. 10	992	268	23	1403
Felber, Isidor, Nyack, N. Y. Press-clamp for button-flies	282,711	Aug. 7	296	84	24	551
Felch, Frank L. (See Liedke, Edward L., assignor.)						
Feldman, Joseph, London, England. Umbrella	270,041	Jan. 2	252	73	23	52
Feldmann, Alfred, Bremen, Germany. Apparatus for the manufacture of ammonia	278,115	May 22	1951	535	23	1981

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Feldmann, Hermann B., assignor to S. P. M. Tasker, Philadelphia, Pa. Hopper for pulverizing-machines	274,090	Mar. 13	1081	298	23	1027
Feldmann, Hermann B., assignor of one-half to S. P. M. Tasker, Philadelphia, Pa. Pulverizing-machine	275,031	Apr. 3	200	53, 54	23	1260
Feldmann, Hermann B., assignor to J. R. Tasker, Philadelphia, Pa. Pulverizing-machine	290,874	Dec. 25	1910	527	25	1244
Felix, Numa J., New York, N. Y. Watch-case spring	290,761	Dec. 25	1774	490	25	1221
Fell, Ambrose G., New York, N. Y. Manufacture of glucose	270,042	Jan. 2	253	.....	23	52
Fell, Jasper P. (See Gregg and Fell.)						
Fell, Jasper P., and E. C. Gregg, Wheeling, Mo. Hay-stacker	270,043	Jan. 2	255	73, 74	23	52
Fell, John R., Philadelphia, Pa. Fire-escape	285,603	Sept. 25	1766	500	24	1239
Fell, Thomas M., Brooklyn, N. Y. Feeding air to furnaces	270,653	Jan. 16	1025	294, 295	23	216
Fell, Thomas M., Brooklyn, N. Y. Obtaining motive power	287,917	Nov. 6	160	46, 47	25	535
Fell, Thomas M., Brooklyn, N. Y. Furnace	288,416	Nov. 13	797	216	25	655
Fell, Thomas M., Brooklyn, N. Y. Process of and apparatus for making heating and illuminating gas	288,701	Nov. 20	1149	316, 317	25	722
Fellers, John E., Burlington, Ind. Grain-tally	280,163	June 26	1900	535	23	2471
Fellows, A. Clarke, Troy, N. Y. Collar	284,829	Sept. 11	824	230	24	1050
Fellows, A. Clarke, Troy, N. Y. Collar	287,263	Oct. 23	1878	514	25	359
Fellows, Charles F., Chelmsford, assignor to J. W. Bennett, Lowell, Mass. Lamp and lantern	283,989	Aug. 28	1839	519	24	858
Fellows, Edgar D., assignor to Davis Sewing Machine Company, Watertown, N. Y. Vertical-feed sewing-machine	280,731	July 3	473	134	24	84
Fellows, Edgar D., assignor to Davis Sewing Machine Company, Watertown, N. Y. Vertical-feed sewing-machine	280,732	July 3	475	135	24	84
Fellows, Edgar D., assignor to Davis Sewing Machine Company, Watertown, N. Y. Vertical-feed sewing-machine	282,873	Aug. 7	477	134	24	585
Fellows, Edgar D., assignor to Davis Sewing Machine Company, Watertown, N. Y. Vertical-feed sewing-machine	282,874	Aug. 7	479	134	24	585
Felps, Thomas, Clinton, La. Cotton-scraper attachment for plows	270,654	Jan. 16	1026	295	23	217
Felstead, William, Boston, Mass. Lunch-box	277,251	May 8	925	248	23	1791
Felt, Hannibal, assignor of one-half to H. P. Deuscher, Hamilton, Ohio. Wagon-brake	278,924	June 5	385	105	23	2189
Felt, Harriet A. (See Felt, John, assignor.)						
Felt, John, Clayton, N. Y. Sash-holder	286,125	Oct. 2	422	115	25	78
Felt, John, assignor to H. A. Felt, Clayton, N. Y. Combined stopper and tube for inkstands	280,922	July 10	719	902	24	133
Felthoff, John. (See Weaver, James C., assignor.)						
Felthousen, Edward G., and D. L. Volker, Buffalo, N. Y. Injector	283,229	Aug. 14	902	252	24	668
Felthousen, William H., Baltimore, Md. Conveyer	275,758	Apr. 10	1164	319	23	1433
Felton, Lucius E., Potsdam, N. Y. Galvanic-battery cell	287,812	Nov. 6	27	9	25	512
Felts, Oscar N., Carrington, Mo. Gang-plow	283,585	Aug. 21	1348	376, 377	24	756
Fenn, J. R. (See Hendricks, Clarke, assignor.)						
Fenn, Joseph E., Elizabeth, N. J. Telephone-exchange system	285,245	Sept. 18	1335	376	24	1148
Fenn, Joseph E., Elizabeth, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Duplex telegraph	275,334	Apr. 3	591	159	23	1326
Fenn, William B., Meriden, Conn. Grinding and polishing machine	282,203	July 31	2468	680	24	451
Fenn, William B., assignor to F. Merriam & Co., Meriden, Conn. Joiner's plane	287,371	Oct. 23	2013	547	25	384
Fennell, Joseph, Cynthiana, Ky. Knee-boot for horses	283,990	Aug. 28	1840	519	24	858
Fennell, Joseph, Cynthiana, Ky. Quarter-boot for horses	288,220	Nov. 13	528	147	25	609
Fenner, George P., New London, Conn. Air-cushioning device for printing-presses	272,673	Feb. 20	1374	385	23	695
Fenner, George P., New London, Conn. Gripper-motion for printing-presses	272,674	Feb. 20	1375	386	23	695
Fenner, George P., New London, Conn. Journal-bearing	276,015	Apr. 17	1477	408	23	1496
Fenner, James W., Cleveland, Ohio, assignor to Nathan & Dreyfus, New York, N. Y. Oil-cup	272,379	Feb. 13	993	277	23	623
Fenner, William H., Jr. (See Potter and Fenner.)						
Fennerty, John M., Memphis, Tenn. Bilge-water indicator	274,474	Mar. 27	1586	435	23	1131
Fenno, Isaac, Boston, Mass. Horseshoe	289,402	Dec. 4	36	11	25	893
Fenton, John, Indianapolis, Ind. Toe-weight	270,941	Jan. 23	1381	399	23	287
Fenton, John H. (See Hise, George J., assignor.)						
Fenton, John H. (See Hise and Fenton.)						
Fenton, John H. (See Lightford and Fenton.)						
Fenton, John H., Chicago, Ill. Toe-weight for horses	286,190	Oct. 9	504	139	25	104
Fenwick, George, Gateshead, and B. Cochrane, Durham, county of Durham, England. Reverberatory furnace	271,442	Jan. 30	2008	579	23	403
Feraille, F. Stephen. (See Kursh and Feraille.)						
Ferguson, Benjamin F., Allen, Tex. Cotton-gin building	273,048	Feb. 27	1854	519, 520	23	786
Ferguson, Caroline, St. Louis, Mo. Clothes-basket	276,377	Apr. 24	1940	537	23	1582
Ferguson, Charles H., and A. Baker, Boston, Mass. Coal and ash sifter	289,820	Dec. 11	558	156	25	991
Ferguson, Charles L. (See Ferguson, Thomas and C. L.)						
Ferguson, Charles W., Janesville, Wis. Car-coupling	281,479	July 17	1432	391, 392	24	264
Ferguson, Edward G., Macon, Ga. Vehicle-wheel	277,252	May 8	926	248	23	1791
Ferguson, James, Bridgewater, Mass. Cotton-bale tie	290,221	Dec. 18	1054	296	25	1089
Ferguson, James E. (See Surprenant and Ferguson.)						
Ferguson, James L., Columbia City, Ind. Ticket-case	278,925	June 5	386	106	23	2189
Ferguson, Monroe J., Winthrop, Iowa. Sleigh	278,326	May 29	2255	618	23	2042
Ferguson, Oliver, Milton, Ind. Grain-binder	286,799	Oct. 16	1282	346	25	247
Ferguson, Robert W., assignor to W. H. Acuff and J. M. Wiswell, Decatur, Ill. Joint-fastener	281,854	July 24	1916	523	24	353
Ferguson, Stephen B., Hallowell Township, Ontario, Canada. Cheese-vat	285,803	Oct. 2	25	9	25	7
Ferguson, Stephen M. (See Atkins, Callahill, assignor.)						
Ferguson, Thomas and C. L., Toronto, Ontario, Canada. Thill-coupling	273,497	Mar. 6	325	88	23	890
Ferguson, William C., G. D. Grismore, and W. M. Wetherill, St. Louis, Mo. Pick	285,804	Oct. 2	26	9	25	7
Fern, John. (See Grimes and Fern.)						
Fern, John, Hyde Park, Pa. Apparatus for separating slate from coal	274,747	Mar. 27	1933	538	23	1191
Fernald, Edward S. M., Saco, Me. Tool-rest for lathes	286,090	Oct. 16	1151	309	25	224
Fernald, James W., Detroit, Mich. Reversing mechanism for washing-machines	283,586	Aug. 21	1349	377	24	756
Fernie, John, Philadelphia, Pa. Ventilating apparatus	280,594	July 3	309	86	24	55
Fernie, John, Philadelphia, Pa. Apparatus for ventilating apartments	280,595	July 3	310	86	24	55
Feroe, Alfred E., Albany, and W. E. Feroe, Poughkeepsie, N. Y. Manufacturing beer, sirup, and distilled liquor	282,619	Aug. 7	173	52	24	531

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Feroe, William E. (See Feroe, Alfred E. and W. E.)						
Ferrall, Thomas R., Boston, Mass. Self-lubricating bearing	272,869	Feb. 27	1643	459, 460	23	750
Ferrall, Thomas R., Boston, Mass. Trawl-roller	272,870	Feb. 27	1644	460	23	750
Ferrall, Thomas R., Boston, Mass. Anti-frictional bearing	279,552	June 19	1184	327	23	2339
Ferrall, Thomas R., Boston, Mass. Pulley-block	279,553	June 19	1185	328	23	2339
Ferrall, Thomas R., Boston, Mass. Pulley-block	279,554	June 19	1186	328	23	2339
Ferre, William T., assignor to himself and E. W. Bennett, Springfield, Mass. Device for bottling liquids	278,661	May 29	2665	729	23	2114
Ferreira, Charles E., *et al.* (See Farmer, James C., assignor.)						
Ferren, Myron J., Stoneham, Mass. Feed mechanism for sewing-machines	270,185	Jan. 2	419	122	23	85
Ferren, Myron J., Stoneham, Mass. Apparatus for making vamps for shoes	287,264	Oct. 23	1879	515	25	359
Ferren, Myron J., Stoneham, Mass. Boot and shoe pattern	288,417	Nov. 13	798	216	25	655
Ferrenburg, Jonathan P., New Madrid, Mo. Shingle-machine	290,222	Dec. 18	1055	296	25	1089
Ferrier, Charles P., Ypsilanti, Mich. Corn-sheller	275,623	Apr. 10	903	268, 269	23	1404
Ferris, Alfred. (See Thornton and Ferris.)						
Ferris, Andrew C., Hackensack, N. J. Fire-escape ladder	277,124	May 8	774	203	23	1764
Ferris, George D., Mexico, Mo. Washing-machine	276,795	May 1	342	92	23	1686
Ferris, Henry L., Alden, Ill. Hay elevator and carrier	276,016	Apr. 17	1478	408	23	1496
Ferris, Hudson, Chicago, Ill. Burglar-alarm	286,598	Oct. 16	1030	278	25	203
Ferris, Sherwood B., Brooklyn, N. Y. Corset	271,618	Feb. 6	42	10, 11	23	448
Ferris, Smith, New York, N. Y. Caster	280,164	June 26	1901	535	23	2471
Ferron, Alexandre, assignor to himself and Société Anonyme des Anciens Etablissements Cail, Paris, France. Machine for crushing and disintegrating sugar-cane	279,235	June 12	773	213	23	2265
Ferry, Daniel J., Philadelphia, Pa. Paper box	290,018	Dec. 11	896	227	25	1035
Ferry, Harlow H., Kingsville, Ohio. Curd-stirring machine	288,785	Nov. 20	1253	344	25	741
Fest, Charles P., Philadelphia, Pa., assignor to G. P. Farmer, New York, N. Y. Compound for and process of dyeing mother-of-pearl and other material	276,378	Apr. 24	1940	.....	23	1582
Fetter, Jacob, *et al.* (See Inglis, Charles A., assignor.)						
Fetzer, James J., Columbiana, Ohio. Carriage-spring	289,078	Nov. 27	1616	447	25	813
Feurhake, Henry. (See Scott, Schaub, and Feurhake.)						
Feust, Sigmund, New York, N. Y. Buffing and polishing machine	270,294	Jan. 9	554	163	23	118
Feust, Sigmund, New York, N. Y. Buffing and polishing machine	272,871	Feb. 27	1644	460	23	750
Fey, Louis, Cincinnati, Ohio. Flying-target	286,800	Oct. 16	1284	347	25	248
Feyh, Henry, assignor to Goodell & Waters, Philadelphia, Pa. Mortising-machine	281,855	July 24	1917	524	24	353
Fichtenberg, Werner, New York, N. Y. Pin-holder for neck-wear shields	287,652	Oct. 30	2326	644	25	463
Fichtenberg, Werner W., New York, N. Y. Neck-wear hook	274,924	Apr. 3	47	12	23	1233
Fichtner, Josef, assignor of one-half to G. Patek, Milwaukee, Wis. Hammock	276,234	Apr. 24	1751	485	23	1550
Fichtner, Sebald. (See Blascow and Fichtner.)						
Fickett, Franklin H., and J. W. Reid, Chicago, Ill. Folding or cabinet bath-tub	281,255	July 17	1149	317	24	216
Fickett, William S., assignor of three-fifths to W. R. Clark and H. C. Daniels, Rochester, N. Y. Preservative compound	285,350	Sept. 18	1452	.....	24	1169
Fickett, William S., assignor of three-fifths to W. R. Clark and H. C. Daniels, Rochester, N. Y. Culinary boiler	285,351	Sept. 18	1453	409	24	1169
Ficks, Charles D. (See Frick, Charles E., assignor.)						
Fidler, William, Topeka, Kans. Steam packing device	276,379	Apr. 24	1941	537	23	1582
Fieder, F. William, assignor to Pullman Door Check Company, Chicago, Ill. Door-check	270,044	Jan. 2	256	74	23	52
Fiederlein, Fredrick, New York, N. Y. Machine for cooling and mixing lard	280,025	June 26	1750	491	23	2443
Fiedler, Emil J. (See Rummel and Fiedler.)						
Field, Albert D., Columbus, Ohio. Curtain-pole	277,253	May 8	927	248, 249	23	1791
Field, Albert D., assignor of one-half to L. T. Strader, Columbus, Ohio. Packing-case for cornices	269,927	Jan. 2	123	37	23	26
Field, Albert D., assignor of one-half to L. T. Strader, Columbus, Ohio. Adjustable cornice	274,444	Mar. 20	1551	425	23	1116
Field, Benjamin P., Babylon, N. Y. Chimney-cap	289,636	Dec. 4	329	91	25	945
Field, Benton J., Leaksville, N. C. Dental impression-cup	274,299	Mar. 20	1357	372	23	1082
Field & Co., J. A. (See Hedges, Isaac A., assignor.)						
Field, Frank W., Springfield, Mass. Envelope or other box	290,223	Dec. 18	1057	297	25	1090
Field, Frederic H., Providence, R. I. Fire-alarm indicator and recorder	288,221	Nov. 13	529	147	25	609
Field, George B., New York, N. Y. Purifying, heating, and condensing apparatus	272,831	Feb. 20	1568	441	23	731
Field, Silas M., and W. Halkyard, assignors to H. A. Church, Providence, R. I. Machine for making roller-chain units. (Reissue)	10,326	May 15	1654	450, 451	23	1924
Field, Stephen D., New York, N. Y. Printing-telegraph	274,300	Mar. 20	1358	373	23	1082
Field, Stephen D., New York, N. Y. Printing-telegraph	274,748	Mar. 27	1934	538	23	1191
Field, Stephen D., New York, N. Y. Speaking-telephone	275,178	Apr. 3	382	106	23	1202
Field, Stephen D., New York, N. Y. Electric elevator	275,179	Apr. 3	383	106	23	1202
Field, Stephen D., New York, N. Y. Electrical connector for railway-track circuits	275,180	Apr. 3	385	106	23	1203
Field, Stephen D., New York, N. Y. Receiving-instrument for quadruplex telegraphy	275,181	Apr. 3	386	106	23	1203
Field, Stephen D., New York, N. Y. Printing-telegraph	279,729	June 19	1385	386	23	2373
Field, Stephen D., New York, N. Y. Alarm for printing-telegraphs	279,730	June 19	1386	386, 387	23	2374
Field, Stephen D., New York, N. Y. Printing-telegraph	279,865	June 19	1542	431	23	2401
Field, Stephen D., New York, N. Y. Dynamo multiple telegraph	288,786	Nov. 20	1256	344, 345	25	741
Field, Stephen D., assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph and transmitter therefor	287,265	Oct. 23	1881	515	25	360
Field, Stephen D., assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph	287,266	Oct. 23	1883	515	25	360
Field, Stephen D., assignor to Commercial Telegram Company, New York, N. Y. Electric transmitter	287,267	Oct. 23	1883	515	25	360
Field, Stephen D., assignor to Commercial Telegram Company, New York, N. Y. Controlling printing-circuits of printing-telegraphs	290,556	Dec. 18	1500	414	25	1166
Field, Stephen D., assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph	290,557	Dec. 18	1502	414	25	1166
Field, Stephen D., assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph	290,635	Dec. 18	1602	439, 440	25	1182
Field, Stephen D., assignor to Western Union Telegraph Company, New York, N. Y. Dynamo-telegraphy	282,294	July 31	2470	681	24	452
Field, Stephen D., assignor to Western Union Telegraph Company, New York, N. Y. Dynamo-telegraphy	282,295	July 31	2476	681	24	452
Field, Stephen D., assignor to Western Union Telegraph Company, New York, N. Y. Dynamo-telegraphy	282,296	July 31	2478	682	24	453

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Field, Stephen D., assignor to Western Union Telegraph Company, New York, N. Y. Dynamo-electric machine for printing-telegraphs	282,297	July 31	2482	682	24	454
Field Tack Company, Albert. (See Packard, Henry R., assignor.)						
Field Tack Company, Albert. (See Packard and Wilber, assignors.)						
Field, Wallace L., West De Pere, Wis. Machine for trussing barrels	283,476	Aug. 21	1218	342 343	24	732
Field, Wallace L., West De Pere, Wis. Machine for finishing barrels	283,477	Aug. 21	1219	343	24	732
Fieldhouse, Joseph, Keighley, county of York, England. Changeable last	283,567	Aug. 21	1350	377	24	756
Fielding, Daniel M., Decatur, Ill. Bench-plane	277,556	May 15	1292	347	23	1960
Fields, George F., *et al.* (See Pfautz, Daniel M., assignor.)						
Fieser, John B. (See Neff, Enders, and Fieser.)						
Fiester, John C., assignor to J. Shaaber, Reading, Pa. Weather-strip	285,024	Sept. 18	1074	300	24	1102
Fiester, John U., Cambridge, Ohio. Bed-spring	279,731	June 19	1387	387	23	2374
Fife, James T., Corning, and L. E. Mercer, Lenox, Iowa; said Fife assignor to said Mercer. Bee-hive	271,197	Jan. 23	1693	469	23	337
Fife, Kinsey, and J. N. Pickenpaugh, Morgantown, W. Va. Car-stove	287,268	Oct. 23	1885	516	25	360
Fifield, John W. D., North Brookfield, Mass. Machine for the manufacture of crimping-forms	281,856	July 24	1918	524	24	353
Fifield, John W. D., North Brookfield, assignor to A. H. Batcheller, Boston, Mass. Last	288,934	Nov. 20	1433	394	25	774
Figge, Augustus, No. 14 Baker Street, county of Middlesex, England. Water-wheel	271,824	Feb. 6	289	79	23	492
Fildes, Samuel. (See Drew, William H., assignor.)						
File, John C., assignor of one-half to J. B. Belcher, Charlotte, Mich. Felt boot	279,482	June 12	1092	301	23	2316
Filkins, James L., Waterville, N. Y. Hop-drier	285,246	Sept. 18	1337	376	24	1148
Fillebrown, Luther W., Piqua, Ohio. Combined harrow and cultivator	283,697	Mar. 6	585	156	23	934
Fillis, George N., New York, N. Y. Watchman's time-recorder	273,351	Mar. 6	147	41	23	859
Fillmore, James A., Minneapolis, Minn. Spring-balance shade	281,480	July 17	1434	392	24	964
Filson, Jacob H., *et al.* (See Wright and Bechter, assignors.)						
Filson, Samuel J., Maysville, Ky. Car-coupling	274,749	Mar. 27	1936	539	23	1191
Finch, Edward B., New York, N. Y. Top for stoves	286,536	Oct. 9	942	254	25	182
Finch, James B., San José, Cal. Arithmetical chart	275,475	Apr. 10	806	218	23	1372
Finch, James P. (See Conner and Finch.)						
Finch, Robert S., Cincinnati, Ohio. Fire-alarm	285,963	Oct. 2	253	71	25	48
Finck, Nicholas. (See Morris and Finck.)						
Findlay, Charles F. (See Miller and Findlay.)						
Findlay, Charles F., and D. J. Miller, Chicago, Ill. Traction-rope railway	281,256	July 17	1150	317 318	24	216
Findlay, James, Toronto, Ontario, Canada. Rail-dog	285,352	Sept. 18	1454	409	24	1169
Findlay, John, Montreal, Quebec, Canada. Car wheel and axle	285,984	Oct. 2	214	72	25	49
Finlay, Leonard, Little Rock, Ark. Car-truck	282,510	Aug. 7	40	12	24	507
Finger, Carl W., Wilkes-Barré, Pa. Reversing and expansion valve-gear	288,787	Nov. 20	1261	345	25	741
Fink, Jacob, and T. B. Branson, assignors to G. Bernhard, Defiance, Ohio. Commode	290,983	Dec. 25	2064	568	25	1269
Finkensieper, Charles, *et al.* (See Lindner, Ferdinand, assignor.)						
Finly, James R., Delphi, assignor to R. Coble, Carroll County, Ind. Hame-fastener	276,963	May 1	563	146	23	1722
Finn, Clark. (See Finn, Henry H. and C.)						
Finn, Henry H. and C., Elkdale, Pa. Hoe	285,604	Sept. 25	1767	500	24	1232
Finn, John L., Elyria, Ohio. Lightning-arrester	273,049	Feb. 27	1855	520	23	787
Finn, John L., Elyria, assignor of one-half to J. F. Ryder, Cleveland, Ohio. Oil-tank protector	290,558	Dec. 18	1503	415	25	1166
Finn, Peter J. (See Donahoe and Finn.)						
Finney Electric Light & Telegraph Company. (See Finney, Joseph R., assignor.)						
Finney, Henry E., Las Vegas, N. Mex. Ter. Device for medical treatment of the male urinary organs	281,043	July 10	867	241	24	160
Finney, Joseph R, Pittsburg, assignor to himself and T. B. Kerr, Allegheny city, Pa. Electric vehicle	270,186	Jan. 2	420	122	23	86
Finney, Joseph R, Pittsburg, assignor to himself and T. B. Kerr, Allegheny city, Pa. Electric mallet	270,187	Jan. 2	422	122	23	86
Finney, Joseph R., assignor to Finney Electric Light & Telegraph Company, (limited,) Pittsburg, Pa. Electric-arc lamp	271,576	Jan. 30	2173	626	23	431
Finney, Joseph R., assignor to Finney Electric Light and Telegraph Company, (limited,) Pittsburg, Pa. Electric-arc lamp	275,182	Apr. 3	389	107	23	1293
Finney, Joseph R., assignor to Finney Electric Light and Telegraph Company, (limited,) Pittsburg, Pa. Electric-arc lamp	275,183	Apr. 3	390	107	23	1294
Finney, Joseph R., Pittsburg, assignor to himself and T. B. Kerr, Allegheny, Pa. Propelling cars by electricity	285,353	Sept. 18	1454	410	24	1169
Finnigan, John J., Selma, Ala. Safety oil-tank	290,559	Dec. 18	1505	415	25	1167
Finsterer, John, Philadelphia, Pa. Chamber-pot and cover	283,588	Aug. 21	1350	377	24	756
Fire Proof Building Company of New Jersey. (See Meeker, Frederick W., assignor.)						
Firm, Joseph L., Jersey City, N. J. Plate-rack for stereotype-blocks	283,876	Aug. 28	1701	479	24	831
Firman, Leroy B., assignor to Western Electric Company, Chicago, Ill. Central-office apparatus for telephones	283,334	Aug. 14	1038	291	24	693
Fischer, Albert, Detroit, Mich. Car-coupling	275,814	Apr. 17	1244	342	23	1454
Fischer, Ernst, Halle-on-the-Saale, Prussia, Germany. Pen-holder	278,697	June 5	27	8	23	2139
Fischer, Eugen, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Production of paranitrobenzylidene chloride	278,926	June 5	387	.....	23	2189
Fischer, Eugen, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Manufacture of the nitro-leuco base of rosaniline	283,706	Aug. 28	1574	.....	24	810
Fischer, Fransz J., Hamilton, Ohio. Guide for ice plows and markers	287,428	Oct. 30	2085	566	25	404
Fischer, George, Quincy, Ill. Refrigerator	274,750	Mar. 27	1937	539	23	1192
Fischer, Nicholas, Cincinnati, Ohio. Flying target	281,183	July 10	1046	289	24	192
Fischer, Nicholas, Cincinnati, Ohio. Ball-trap	281,356	July 17	1273	353	24	238
Fischer, Otto, Munich, Bavaria, Germany. Preparing oxyquinoline	270,045	Jan. 2	257	.....	23	52
Fischer, Otto, Munich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Preparing oxyhydro-ethyl chinoline	273,498	Mar. 6	326	.....	23	890
Fischer, Otto, Munich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Preparation of oxyhydro-methyl chinoline	276,796	May 1	343	.....	23	1686
Fischer, Wilhelm, Leipsic, Saxony, Germany. Piano-forte	275,759	Apr. 10	1165	319	23	1433
Fischer, Wilhelm M., New York, N. Y. Filtering apparatus	290,019	Dec. 11	807	227	25	1036
Fischer, William M., New York, N. Y. Candle-holder for Christmas-trees	270,771	Jan. 16	1171	335	23	243
Fischl, Josef. (See Klein, Josef, assignor.)						
Fish, Alexander J., Chicago, Ill. Device for ornamenting cake	279,555	June 19	1187	328	23	2339
Fish, Arthur L., San Francisco, Cal. Machine for pulverizing ores, &c	287,653	Oct. 30	2387	644	25	463
Fish, Charles, Manchester, N. H. Side-spring vehicle	287,918	Nov. 6	162	47	25	536
Fish, Frank P. (See Carscadin and Fish.)						
Fish, George W., Pecatonica, Ill. Check-hook for harness	270,406	Jan. 9	701	207	23	146

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fish, Joseph G. (See Gibson and Fish.)						
Fish, Myron. (See Bright, Richard A., Jr., assignor.)						
Fish, Sidell E., Greenport, N. Y. Dental impression-cup	273 833	Mar. 13	768	208	23	974
Fish, Simon W., Hicksville, Ohio. Portable fence	285,882	Oct. 2	132	38	25	26
Fishel, Emanuel, Salem, N. C. Vegetable-cutter	285,965	Oct. 2	254	72	25	40
Fisher, Albert L. (See Snyder, David, assignor.)						
Fisher, Alfred A., and A. Hart, assignors to Pacific Tucking and Manufacturing Company, San Francisco, Cal. Tucker attachment for sewing-machines	278,422	May 29	2376	649	23	2063
Fisher, Alvin L. (See Whitaker, Richard, assignor.)						
Fisher, Amos B., Caribou, Me. Saw-filing machine	290,875	Dec. 25	1912	527, 528	25	1945
Fisher, Asahel H., assignor of one-half to W. C. Turner, Philadelphia, Pa. Friction-compressor for dredging-machines, &c	285,883	Oct. 2	133	38	25	26
Fisher, Bernard, deceased; H. Wich, administratrix, and assignor to C. Wich, Baltimore, Md. Vapor-burner	292,820	Aug. 7	412	116	24	573
Fisher, Bevly A., St. James, Mo. Car-coupling	285,247	Sept. 18	1337	376	24	1148
Fisher, Charles A. (See Wright and Fisher.)						
Fisher, Cicero, Temperance Hall, Tenn. Fish-trap	279,556	June 19	1188	329	23	2339
Fisher, Clark, Trenton, N. J. Vise	282,975	Aug. 14	590	166	24	612
Fisher, Clark, Trenton, N. J. Railway-tie	285,966	Oct. 2	255	72	25	49
Fisher, Clark, Trenton, and E. R. Solliday, Lambertville, N. J., assignors to Union Mills Paper Manufacturing Company, New Hope, Pa. Apparatus for making paper felt, wadding, or lining	286,287	Oct. 9	647	172	25	128
Fisher, Edward D. (See Hull, Albert T., assignor.)						
Fisher, Edward D., Wooster, Ohio. Metal hame-fastening	288,322	Nov. 13	662	183	25	631
Fisher, Edward D., assignor of one-half to G. B. Miller, Wooster, Ohio. Horse-collar-throat	288,562	Nov. 13	972	267	25	685
Fisher, Edward F., Strawn, assignor to himself and J. E. Davis, Bloomington, Ill. Nut-lock	283,092	Aug. 14	736	206	24	638
Fisher Electric Company. (See Bain, Foreé, assignor.)						
Fisher, Enos, Adamsborough, Ind. Sled-brake	280,165	June 26	1902	535	23	2471
Fisher, George A., New York, assignor to Abendroth Brothers, Port Chester, N. Y. Ash-chute	273,499	Mar. 6	327	89	23	890
Fisher, George F., St. John, New Brunswick, Canada. Lantern	278,927	June 5	387	106	23	2189
Fisher, Israel. (See Gassett and Fisher.)						
Fisher, Israel, Medford, assignor to New England Electric Manufacturing Company, Boston, Mass. Dynamo-electric generator	280,301	June 26	2074	584	23	2502
Fisher, Jesse. (See Kaylor and Fisher.)						
Fisher, John W. (See Lowe, Thomas, assignor.)						
Fisher, Joseph H., Deerfield, Ill. Car-door lock	279,732	June 19	1388	387	23	2374
Fisher, Joseph H., Deerfield, Ill. Car-door lock	288,988	Nov. 27	1502	416	25	794
Fisher, Lucius G., Jr. (See Altenbrand, Henry, assignor.)						
Fisher, Noble A., Sacramento, Cal. Moving street-cars on curves	289,904	Dec. 11	669	186	25	1010
Fisher, Timothy L., Arlington, Mass. Easel	278,116	May 22	1954	535	23	1982
Fisher, W. Frank B., Springfield, Ohio. Cut-off for conductors	289,821	Dec. 11	559	157	25	991
Fisher, William C., assignor of one-half to C. E. and F. Fuller, Boston, Mass. Circuit-closer for burglar-alarms	279,483	June 12	1093	302	23	2316
Fisher, William D., Chicago, Ill. Sofa-bed	273,352	Mar. 6	149	41	23	859
Fisher, William L., Bay City, Mich. Car-coupling	283,991	Aug. 28	1841	519	24	858
Fisherbuck, Augustus, Marion, Ind. Sulky-plow	283,877	Aug. 28	1701	480	24	832
Fishering, George W., Allegheny, Pa. Spring bed-bottom	275,476	Apr. 10	807	218	23	1372
Fishkill, Manufacturing Company. (See Everett, Sidney J., assignor.)						
Fishman, Milford, Washington, D. C. Drawers, overalls, and pantaloons	283,992	Aug. 28	1842	519, 520	24	858
Fishwick, James, Mainville, Ohio. Hand crimping-tool	271,052	Jan. 23	1513	436	23	309
Fishwick, Richard. (See Lee, Joseph, assignor.)						
Fisk, Clark & Flagg. (See Flagg, Thomas J., assignor.)						
Fisk & Co., D. B. (See Maynard, Henry O., assignor.)						
Fisk, George C., Dansville, N. Y. Anti-incrustation attachment for boilers	285,248	Sept. 18	1338	377	24	1148
Fisk, George S., and H. K. Vergason, Binghamton, N. Y.; said Vergason assignor to said Fisk. Bee-hive	273,674	Mar. 6	558	148	23	929
Fisk, James. (See Ash and Fisk.)						
Fisk, John D., Hartford, Conn. Revolving guard for locomotive cow-catchers	288,788	Nov. 20	1262	345	25	742
Fisk, Redford W., Strong City, Kans. Truck	290,020	Dec. 11	908	227	25	1036
Fiske, Bradley A., New York, N. Y. Stock-indicator	285,805	Oct. 2	27	9, 10	25	7
Fiske, Bradley A., Newport, R. I., assignor to B. Hecht, New York, N. Y. Pencil or crayon holder	272,948	Feb. 27	1740	486	23	765
Fiske, Bradley A., and S. D. Mott, New York, N. Y. Insulator	286,801	Oct. 16	1284	347	25	248
Fiske, Henry G., Springfield, Mass. Fastening for electric-circuit wires	271,625	Feb. 6	290	80	23	492
Fiske, Jeremiah H., Medway, Me. Lifting-jack	273,050	Feb. 27	1856	520	23	787
Fiske, Joseph E., Jamestown, N. Y. Bolting-regulator	276,169	Apr. 24	1673	462	23	1537
Fitch, Arden S. (See Eichling and Fitch.)						
Fitch, Byron S. (See Fitch, Calvin H., assignor.)						
Fitch, Calvin H., Middletown Springs, Vt., assignor of one-half to B. S. Fitch, Richmond, Va. Spring bed-bottom	274,925	Apr. 3	48	13	23	1234
Fitch, Charles H., New Haven, Conn. Return-flue boiler	270,212	Jan. 9	461	134	23	101
Fitch Electric Lighting and Construction Company. (See Fitch, Frederick K., assignor.)						
Fitch, Ezra C., New York, N. Y. Watch-case	277,865	May 15	1650	450	23	1923
Fitch, Ezra C., assignor to Robbins & Appleton, New York, N. Y. Watch-case	289,340	Nov. 27	1927	535	25	872
Fitch, Frederick K., New York, N. Y., assignor to Fitch Electric Lighting and Construction Company, of New York. Dynamo-electric machine	285,249	Sept. 18	1339	377	24	1149
Fitch, Henry, Jr. (See Morse, E. Flut, assignor.)						
Fitch, Henry D., Lebanon, Ky. Apparatus for making gas	271,231	Jan. 30	1732	501	23	353
Fitch, Lauren M., assignor of one-half to M. M. Davis, Rome, N. Y. Buckboard-wagon	270,879	Jan. 16	1294	373	23	267
Fitch, Nancy M., assignor to S. Fitch, Auburn, N. Y. Kiln for firing pottery, &c	281,625	July 17	1610	440	24	293
Fitch, Sarah H., *et al.* (See Fitch, William E., assignor.)						
Fitch, Stearns. (See Fitch, Nancy M., assignor.)						
Fitch, W. & E. T. (See Beecher, Thomas, assignor.)						
Fitch, W. & E. T. (See Northrup, George B., assignor.)						
Fitch, Wheeler W., Honeoye Falls, N. Y. Car-coupling	277,698	May 15	1453	392	23	1888
Fitch, William E., assignor to F. C. Howlett and S. H. Fitch, Syracuse, N. Y. Water or air pillow	283,767	Aug. 28	1574	445	24	811
Fitch, William L., assignor to D. H. Fletcher, trustee, Chicago, Ill. Air-supply to the feed-water for steam-boilers	285,884	Oct. 2	134	38	25	26

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Fitchburg Steam Engine Company. (See Fosdick, Frederick, assignor.)						
Fitt, Frederick, Chaux-de-Fonds, Switzerland. Detachable watch-escapement	281,757	July 24	1792	489	24	331
Fitt, Frederick, Chaux-de-Fonds, Switzerland. Full-plate watch and time-piece movement	281,758	July 24	1794	489, 490	24	331
Fitton, James. (See Ludlow, Samuel W., assignor.)						
Fitts, Benaiah, Worcester Mass. Three-way valve	272,421	Feb. 20	1057	297	23	639
Fitts, Benaiah, and J. F. Wilson, Worcester, Mass. Rotary meter	281,257	July 17	1152	318	24	217
Fitts, George W., Philadelphia, Pa. Spring-motor	271,232	Jan. 30	1734	502	23	354
Fitts, Leverett E. (See Foster, William G., assignor.)						
Fitz, John, *et al.* (See Harvey, John, assignor.)						
Fitzberger, John. (See Fitzberger, Thomas F. and J.)						
Fitzberger, Thomas F. and J., Baltimore, Md. Metallic roofing	277,254	May 8	928	249	23	1792
Fitz-Gerald, Desmond G., Brixton, county of Surrey, England. Incandescent electric lamp	286,916	Oct. 16	1432	393	25	273
Fitz Gerald, Walter H., assignor of one-half to W. M. Dwyer, Chicago, Ill. Pitcher-stand	282,875	Aug. 7	481	135	24	585
Fitz Gerald, Walter H., and G. C. Smith, Chicago, Ill. Dust-proof watch-case	287,919	Nov. 6	163	47	25	536
Fitzgerald, Anna M., executrix. (See Fitzgerald, John.)						
Fitzgerald, John, deceased, Brooklyn, N. Y.; A. M. Fitzgerald, executrix. Grinding-mill	285,777	Sept. 25	1993	564	24	1270
Fitzgerald, Michael J., Fort Wingate, N. Mex. Ter. Gage-cock	289,637	Dec. 4	330	92	25	946
Fitzgerald, Rufus, Nashua, N. H. Machine for cutting holes through ice	286,599	Oct. 16	1030	279	25	203
Fitzgerald, Walter S., Boston, Mass. Skiving-machine	287,813	Nov. 6	28	9	25	512
Fitzgibbons, Patrick, Oswego, N. Y. Steam-boiler	274,301	Mar. 20	1360	373	23	1063
Fitzgibbons, Patrick, Oswego, N. Y. Steam-boiler	290,762	Dec. 25	1774	490	25	1221
Fitzhugh, Benjamin G., Frederick, Md. Fare-collector for passenger-cars	289,341	Nov. 27	1928	535, 536	25	872
Fitzpatrick, Annie M. (See Fitzpatrick, Michael, assignor.)						
Fitzpatrick, James B., Wheeling, W. Va. Lifter for cooking utensils	280,596	July 3	311	87	24	56
Fitzpatrick, Michael, assignor to A. M. Fitzpatrick, St. Louis, Mo. Brick-making machine	272,224	Feb. 13	794	221	23	569
Fitzroy, Alfred, Brooklyn, N. Y. Safety appliance for elevators	289,905	Dec. 11	670	187	25	1010
Fitzsimmons, Laurence, Allegheny, Pa. Dumping-car	273,051	Feb. 27	1857	521	23	787
Fitzsimmons, Michael, *et al.* (See Vincent, John, Jr., assignor.)						
Fix, James M., Bird's Landing, Cal. Gang-plow	285,885	Oct. 2	135	38	25	27
Flach, Arthur B., New York, N. Y. Safety-gate. (Reissue)	10,342	June 19	1587	444	23	2409
Flad, Frederick, Philadelphia, Pa. Cigar-tip cutter	276,964	May 1	564	147	23	1723
Flad, Henry, St. Louis, Mo. Apparatus for sprinkling streets	288,222	Nov. 13	531	148	25	609
Flagg, George H. P., trustee. (See Coy, Frederick W., assignor.)						
Flagg, J. Walter, Worcester, Mass. Automatic cash-carrier	283,768	Aug. 28	1575	445	24	811
Flagg, Joseph W., Worcester, Mass. Automatic cash-carrier	274,302	Mar. 20	1361	373	23	1063
Flagg, Joseph W., Worcester, Mass. Automatic cash-carrier	277,892	May 22	1688	460	23	1936
Flagg, Lafayette, Bunker Hill, Ind. Snap for harness	281,857	July 24	1921	525	24	353
Flagg, Thomas J., assignor to Fisk, Clark & Flagg, New York, N. Y. Scarf-shield	288,169	Nov. 6	463	129	25	568
Flammang, Mathias, Newark, N. J. Camera	271,443	Jan. 30	2009	579	23	403
Flammang, Mathias, Newark, N. J. Plate-holder for photographic cameras	271,826	Feb. 6	291	80	23	492
Flammang, Mathias, Newark, N. J. Photographic camera	278,788	June 5	152	45	23	2148
Flammang, Mathias, Newark, N. J. Plate-holder for photographic cameras	280,166	June 26	1903	536	23	2472
Flammang, Mathias, Newark, N. J. Stand for photographic cameras	282,182	July 31	2348	647	24	429
Flammang, Mathias, Newark, N. J. Photographic camera	283,589	Aug. 21	1351	378	24	757
Flammger, Fred, and C. O. Sobinski; said Sobinski assignor to G. Frey, St. Louis, Mo. Index-tab	277,836	May 15	1615	440	23	1917
Flanders, Albert W. (See Bonett, Gilfillan, and Flanders.)						
Flanders, Frederick. (See Woodward, Stephen, assignor.)						
Flanders, James, Augusta, Me. Automatic piling device for printing-presses	273,052	Feb. 27	1858	521	23	787
Flanders, Peter, Lowell, Mass. Stave-machine	270,772	Jan. 16	1172	335	23	244
Flanders, Timothy B. (See Buttrick and Flanders.)						
Flanigan, George B., Kansas City, Mo. Hog-hoisting apparatus	272,422	Feb. 20	1059	297, 298	23	639
Flanigan, Mark, *et al.* (See Hinden, Mathias J., assignor.)						
Flannagan, John D., assignor of one-half to B. V. Sowders, Kosse, Tex. Feed-governor for cotton-gins	279,367	June 12	954	265	23	2294
Flannery, D. F. (See Reidy, Maurice A., assignor.)						
Flannery, Joseph, Philadelphia, Pa. Furnace	270,773	Jan. 16	1173	336	23	244
Flasschoen, Charles I., Paris, France. Manufacture of medicated food	287,429	Oct. 30	2026	.....	25	405
Flather, Mark, Nashua, N. H. Hand reaming-machine	273,976	Mar. 13	941	259	23	1003
Flathers, William M., Sumner, Minn. Plow	287,814	Nov. 6	20	9, 10	25	512
Fleck, John, Louisville, Ky. Life-saving apparatus for privy-vaults	270,295	Jan. 9	556	163	23	118
Fleisher, Moyer, Philadelphia, Pa. Tank	284,402	Sept. 4	298	84	24	954
Fleming, Caughey S., Shelbyville, Ind. Hinge for toilet-glasses and mirrors	290,021	Dec. 11	809	227	25	1036
Fleming, John A., Hampstead, county of Middlesex, England. Preparation or production of insulating materials or articles	284,289	Sept. 4	162	.....	24	931
Fleming, John E., Chicago, Ill. Oil-stove	273,717	Mar. 13	610	164	23	946
Fleming, Jonathan, Madison, Ind. Road-scraper	279,368	June 12	956	265, 266	23	2294
Fleming, Joseph B. (See Loughead and Fleming.)						
Fleming, Robert S. (See Dobyne and Fleming.)						
Fleming, Thomas, South Bend, Ind. Lock for top boxes of wagons	272,832	Feb. 20	1570	442	23	731
Fleming, Thomas, assignor of one-half to J. C. Paxon, South Bend, Ind. End-gate	271,198	Jan. 23	1695	489	23	338
Fleming, William B. (See Haskell and Fleming.)						
Flemming, John H., Dundee, Mich. Thill-coupling	274,751	Mar. 27	1939	539	23	1192
Flenniken, Theodore M., deceased, (W. McGregor, administrator,) assignor to N. C. Thompson, Rockford, Ill. Cultivator	273,673	Mar. 6	556	148	23	929
Fletcher, Charles, Providence, R. I. Machine for combing wool, &c	271,325	Jan. 30	1852	537	23	374
Fletcher, Charles, Brooklyn, N. Y. Silk-spinning machine	286,802	Oct. 16	1285	347, 348	25	248
Fletcher, D. H., trustee. (See Fitch, William L., assignor.)						
Fletcher, Elmer, Brooklyn, N. Y. Automatic swinging stand and rest	285,119	Sept. 18	1187	333	24	1121
Fletcher, Frank T. (See Clark, David A., assignor.)						
Fletcher, Frederick V., Brooklyn, N. Y. Guard for closing the hinge-crevices of doors	274,303	Mar. 20	1363	373	23	1063
Fletcher, George E., Lampasas, Tex. Wind-engine	275,032	Apr. 3	202	54	23	1260
Fletcher, Gertrude N., Indianapolis, Ind. Library-table	283,386	Aug. 21	1113	314	24	713
Fletcher, James S., Chicago, Ill. Motor	277,893	May 22	1689	461	23	1936
Fletcher, John P., New York, N. Y. Rotary engine	289,822	Dec. 11	560	157	25	991
Fletcher, John W. (See Garver and Varian, assignors.)						
Fletcher, Joseph, Livermore, Cal. Cigar and cigarette holder	282,183	July 31	2349	647	24	429
Fletcher, Robert H., Brooklyn, N. Y. Valve-gear	286,803	Oct. 16	1287	348	25	248

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Fletcher, Samuel J., San Francisco, Cal. Suspension-hook	279,236	June 12	774	213	23	2265
Fletcher, Thomas P., Lawrence, Kans. Vegetable and fruit canning machine	276,380	Apr. 24	1942	538	23	1583
Fletcher, Thomas P., Lawrence, Kans. Corn-husker	287,269	Oct. 23	1856	516	25	361
Fletcher, William H. (See Krings, Fredrich P., assignor.)						
Fletter, Henry, assignor of one half to D. Lilienfeld, Kalamazoo, Mich. Nut-lock	277,474	May 15	1191	320	23	1844
Fletter, Henry, assignor of one-half to G. De La Bar, Kalamazoo, Mich. Non-freezing hydrant	287,815	Nov. 6	31	10	25	513
Fleury, Georges, Rennes, France. Apparatus for purifying alcoholic liquors	286,126	Oct. 2	424	116	25	78
Flewwelling, Gilford, and G. J. Harris, Hampton, New Brunswick, Canada. Machine for sawing match-cards	272,675	Feb. 20	1376	386 / 387	23	690
Flewwelling, Gilford, and G. J. Harris, Hampton, New Brunswick, Canada. Match-sawing machine	290,560	Dec. 18	1506	415	25	1167
Flickinger, Henry F., Bucyrus, Ohio. Railway cross-tie	283,230	Aug. 14	904	252	24	668
Flickinger, William J., Columbiana, Ohio. Window-pole for curtains	285,886	Oct. 2	137	39	25	27
Flinn, William H., Nashua, N. H. Door-lock	272,037	Feb. 13	563	152	23	550
Flinn, William H., Nashua, N. H. Key-fastener	279,930	June 26	1630	457	23	2423
Flinn, William H., Nashua, N. H. Key-fastener	290,876	Dec. 25	1913	528	25	1245
Flint, Alvah S. (See Martin and Flint.)						
Flint, Benjamin F., Cincinnati, Ohio. Time-lock	276,381	Apr. 24	1943	538	23	1583
Flint, Benjamin F., Cincinnati, Ohio. Time-lock	276,382	Apr. 24	1940	538	23	1583
Flint, Benjamin F., Cincinnati, Ohio. Time-lock	276,383	Apr. 24	1947	538 / 539	23	1583
Flint, Edward, Jr., assignor to American Bell Telephone Company, Boston, Mass. Electric annunciator	283,590	Aug. 21	1353	378	24	757
Flint, Edward, Jr., Boston, assignor to himself, C. Williams, Jr., Somerville, Mass., and J. K. Dunbar, San Antonio, Tex. Plug for electrical switch-boards	279,557	June 19	1188	329	23	2339
Flint, Ezra R., Adrian, Mich. Step-ladder	271,619	Feb. 6	44	11	23	448
Flocke, Robert, Newark, N. J. Bag or satchel lock	287,114	Oct. 23	1691	463	25	327
Flocke, Robert, Newark, N. J., assignor to R. Neumann & Co., New York, N. Y. Satchel-lock	279,733	June 19	1389	387	23	2374
Flocker, Frank J., Allegheny City, Pa. Siphon for vessels	290,561	Dec. 18	1507	416	25	1167
Flood, James H., and H. F. Knodor, Cardington, Ohio. Car-coupling	288,789	Nov. 20	1263	346	25	742
Flood, Richard J., and J. Richardson, Pittsburg, Pa. Bung for barrels	270,942	Jan. 23	1382	399	23	288
Flora, Orlando V., Madison, Ind. Ladder	285,605	Sept. 25	1768	500	24	1232
Florence Manufacturing Company. (See Estabrook, Alanson C., assignor.)						
Florsheim, Simon, *et al* (See Gardner, Marshall, assignor.)						
Flos, Charles, New York, N. Y. Attachment of window-shades to rods which are used with their free ends	286,191	Oct. 9	506	130	25	104
Flott, George W., and J. Overacker, Danforth, Ill. Corn-planter check-rower	289,906	Dec. 11	671	187	25	1011
Flower, James, Detroit, Mich. Pump-valve	276,170	Apr. 24	1673	462 / 463	23	1537
Flower, Richard C. (See Willis, Henry T., assignor.)						
Flowers, William J., Rondo, Mo. Cultivator	284,403	Sept. 4	299	84	24	954
Floyd, Halleck, assignor of one-half to G. W. Champ, Dublin, Ind. Saw-buck	274,304	Mar. 20	1363	374	23	1084
Floyd, Halleck, assignor to Dublin Agricultural Company, Dublin, Ind. Feed-cutter	288,170	Nov. 6	464	129	25	588
Flubart, Zaccheus F. (See Sealamer, John, assignor.)						
Flummerfelt, Daniel A., Delaware Station, N. J. Hand-planter	273,977	Mar. 13	942	259	23	1003
Flynn, George F., Pantego, N. C. Double harrow	275,374	Apr. 10	666	178	23	1348
Flynn, Robert D., Danville, Va. Crate for transportation of window and plate glass	271,827	Feb 6	293	80	23	492
Flynn, William R., Bordentown, N. J. Combined sewing-machine cover and chair	276,117	May 22	1954	535	23	1982
Flynn, William V., assignor of one-half to O. C. King, Morristown, Tenn. Lifting-jack and spike and stump puller	277,894	May 22	1690	461	23	1936
Foakes, Edward, assignor to G. Hopkins, Cardiff, England. Car-brake	273,053	Feb. 27	1860	522 / 523	23	787
Fobes, Anna P., Syracuse, N. Y. Invalid-bed	270,046	Jan. 2	257	74	23	52
Fockler, Charles. (See Hopkins and Fockler.)						
Foerster, Emanuel, New York, N. Y. Insertible diamond saw-tooth	273,054	Feb. 27	1862	523	23	788
Foerster, Emanuel, New York, N. Y. Inserting diamonds in steel saw-teeth, bits, &c	279,369	June 12	958	266	23	2295
Foerster, Friedrich W., Burlington, Iowa. Reversible plow	283,387	Aug. 21	1113	314 / 315	24	713
Fogarty, Thomas B., Brooklyn, N. Y. Process of and apparatus for making ammonia	288,323	Nov. 13	663	183 / 184	25	631
Fogarty, Thomas B., Brooklyn, N. Y. Process of and apparatus for manufacturing ammonia	288,324	Nov. 13	668	184	25	631
Fogg, Charles F., *et al.* (See Clark, Albert M., assignor.)						
Fogg, George S. (See Hall and Fogg.)						
Fogg, Leonard C., assignor of one third to W. H. H. Hinds, Kennebunkport, Me. Feathering paddle-wheel	279,558	June 19	1189	329	23	2340
Fogle, R. Bruce. (See Benson and Fogle.)						
Foglesong, Washington, Dayton, Ohio. Collar-stuffing machine	275,624	Apr. 10	994	269	23	1404
Foglesong, Washington, Dayton, Ohio. Machine for blocking horse-collars	283,878	Aug. 28	1703	480	24	832
Folant, Jacob, assignor of one-half to J. A. Noble, Rolling Prairie, Ind. Vehicle-axle	288,563	Nov. 13	972	267 / 268	25	685
Foldberg, Thomas. (See Black, David F., assignor.)						
Foley, James, Brooklyn, N. Y. Cistern attachment for water-closets	282,876	Aug. 7	482	135	24	585
Foley, James, assignor to F. Adee, Brooklyn, N. Y. Water-closet	272,539	Feb. 20	1202	335	23	665
Foley, Patrick, assignor to F. Phinney, Boston, and W. A. Frost, Cambridgeport, Mass. Shoe	282,184	July 31	2350	647	24	429
Foley, William T., Southington, Conn. Chain	274,752	Mar. 27	1940	539	23	1192
Folk, Moses, *et al.* (See Hill, James F., assignor.)						
Follansbee, George S., Charlestown, Mass. Drop-wire for warping-machines	278,327	May 29	2255	618	23	2042
Follansbee, George S., Charlestown, Mass. Mechanical movement	283,591	Aug. 21	1354	378	24	757
Follett, Charles H. (See Dowling, Robert H., assignor.)						
Follett, Edward P., Rochester, N. Y. Sheet-metal can	277,255	May 8	929	249	23	1792
Folmer, John, assignor of one-half to J. M. Davis, Pomeroy, Ohio. Corn planter and drill combined	289,342	Nov. 27	1930	536	25	872
Folmer, John F., Philadelphia, Pa. Gland for surface-condenser tubes	277,557	May 15	1292	347	23	1860
Folmer, John F., Philadelphia, Pa. Screw-propeller	283,592	Aug. 21	1355	378	24	757
Folmer, John J., and C. E. Bradley, San José, Cal. Two-wheeled vehicle	284,198	Sept. 4	53	15	24	913
Folsom, Andrew, Warren, assignor to himself and W. D. Hilton, Providence, R. I. Machine for sawing stone	274,926	Apr. 3	50	13	23	1234
Folsom, J. Augustus, Boston, Mass. Thill-lug	269,843	Jan. 2	30	10	23	8
Folsom, John S. (See Folsom, Nehemiah T., assignor.)						
Folsom, Nehemiah T., assignor to J. S. Folsom, Boston, Mass. Dust-pan	276,531	Apr. 24	2131	593	23	1615

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Foltz, Moses, *et al.* (See Ganss, Henry, assignor.)						
Fonda, John, Battle Creek, Mich. Switch-block for railways	287,920	Nov. 6	165	47	25	536
Fontayne, Charles, Jersey City, N. J. Magic lantern	273,055	Feb. 27	1863	523	23	786
Fontneau, Frank. (See Simms and Cody, assignors.)						
Fontneau, Frank, North Attleborough, assignor to J. Etzensperger, Attleborough, Mass. Ornamental chain	281,988	July 24	2077	570	24	361
Foote, Abram L., Fayette, Iowa. Stove-grate	286,411	Oct. 9	795	215	25	155
Foote, Edward B., Jr., New York, N. Y. Wonder-camera	273,500	Mar. 6	328	89	23	890
Foote, Edward H., Somerville, Mass. Automatic book-mark	284,404	Sept. 4	300	84	24	954
Foote, Edward N., Northampton, Mass. Metallic button	274,582	Mar. 27	1746	484	23	1156
Foote, Emerson, *et al.* (See Frishmuth, William, assignor.)						
Foote, George F., Stamford, Conn. Process of and apparatus for preserving food	285,741	Sept. 25	1940	549	24	1262
Foote, J. Howard. (See Bernhardt, Louis, assignor.)						
Foote, J. Howard. (See Tyler, Aaron P., assignor.)						
Foote, James H., Cincinnati, Ohio. Thill-coupling	277,416	May 8	1112	299	23	1824
Foote, Theodore M., Brooklyn, N. Y. Perforator	270,213	Jan. 9	461	134, 135	23	101
Foote, Theodore M., Brooklyn, N. Y. Perforator for automatic telegraphs	270,774	Jan. 16	1174	336, 337	23	244
Foote, Theodore M., New York, N. Y. Telegraphy	270,775	Jan. 16	1178	337, 338	23	245
Forbes, Isaac N., Lawrence County, Dak. Ter. Rotary engine	274,475	Mar. 27	1567	436, 437, 438	23	1131
Forbes, Isaac N., Lawrence County, Dak. Ter. Rotary engine	274,476	Mar. 27	1594	438, 439	23	1132
Forbes, Isaac N., Lawrence County, Dak. Ter. Rotary engine	274,477	Mar. 27	1596	439, 440, 441	23	1132
Forbes, Isaac N., Lawrence County, Dak. Ter. Rotary engine	274,478	Mar. 27	1600	441, 442	23	1133
Forbes, Isaac N., Lawrence County, Dak. Ter. Rotary engine	274,479	Mar. 27	1607	443	23	1133
Forbes, Isaac N., Lawrence County, Dak. Ter. Rotary-engine locomotive	274,480	Mar. 27	1610	444, 445, 446, 447, 448, 449	23	1134
Forbes, James W., Cincinnati, Ohio. Manufacture of the extract of malt	288,702	Nov. 20	1152	.....	25	722
Forbes, John, and H. M. Williston, Halifax, Nova Scotia, Canada. Seal-lock	273,267	Mar. 6	28	9	23	839
Forbes, William D., assignor of one-half to R. P. Curtis, Bridgeport, Conn. Screw-threading machine	270,407	Jan. 9	702	207, 208	23	146
Forbes, William D., assignor of one-half to R. P. Curtis, Bridgeport, Conn. Screw-threading machine	270,408	Jan. 9	703	208	23	147
Forbes, William D., assignor of one-half to R. P. Curtis, Bridgeport, Conn. Screw threading machine	270,409	Jan. 9	704	208	23	147
Forbes, William D., assignor of one-half to R. P. Curtis, Bridgeport, Conn. Ratchet-wrench	277,256	May 8	930	249	23	1792
Forbes, William H. (See Osborne, John W., assignor.)						
Forbis, Harbert K., Columbus, Ohio. Protector for the heels of boots or shoes	279,559	June 19	1190	329	23	2340
Force, Douglas S., Kingsville, assignor to H. A. Eastman, Ashtabula, Ohio. Machine for making dowel-pins	271,053	Jan. 23	1514	436	23	309
Force, Joseph M., *et al.* (See Malick, Wesley, assignor.)						
Ford, Alvin, assignor of one-half to C. B. Coventry, Chicago, Ill. Steam-boiler	272,225	Feb. 13	796	221	23	500
Ford, Charles D., Chicago, Ill. Sleeve-supporter	280,167	June 26	1903	526	23	2472
Ford, Charles M., Bellevue, Ohio. Windmill	272,226	Feb. 13	797	222	23	500
Ford, Clayton W., Findlay, Ohio. Truck	277,699	May 15	1454	392	23	1888
Ford, Clayton W., Findlay, Ohio. Truck	281,481	July 17	1435	392	24	264
Ford, Edward L., Lyons, N. Y. Lining for iron and steel furnaces	279,089	June 5	586	.....	23	2293
Ford, Franklin D., assignor of one-half to J. A. Miller, Providence, R. I. Button-fastener	279,560	June 19	1191	330	23	2340
Ford, George A., assignor to Cleveland Block Company, Cleveland, Ohio. Snatch-block	271,620	Feb. 6	44	11	23	448
Ford, George B. (See Smith, James C., assignor.)						
Ford, George T. (See Eberhard, William, assignor.)						
Ford, J. B. (See Philips, Ferdinand, assignor.)						
Ford, James R., assignor of one-half to S. Q. Ford, Buena Vista, Miss. Motor	281,858	July 24	1921	525	24	353
Ford, John, Portneuf, Portneuf county, Quebec, Canada. Nut-lock	275,898	Apr. 17	1345	370	23	1472
Ford, John C., Pittsburg, assignor to T. B. Kerr, Allegheny, Pa. Wire-fence	287,372	Oct. 23	2014	548	25	384
Ford, John H., Toronto, Ontario, Canada. Fire-escape	285,250	Sept. 18	1340	377	24	1149
Ford, Johnson & Co. (See Vieman, Christian, assignor.)						
Ford, Samuel A., Pittsburg, Pa. Analyzing pig-iron from blast-furnaces	281,044	July 10	869	.....	24	161
Ford, Samuel A., Pittsburg, Pa. Analyzing pig-iron from blast-furnaces. (Reissue.)	10,395	Oct. 23	2050	.....	25	391
Ford, Stephen Q. (See Ford, James R., assignor.)						
Ford, Thomas. (See Bardo and Ford.)						
Ford, Walter J., Concord, Tenn. Automatic air-brake for railway-cars. (Reissue)	10,298	Mar. 27	2109	586, 587	23	1220
Ford, William C., Brooklyn, N. Y. Furnace for steam-boilers, &c	288,418	Nov. 13	799	217	25	655
Forder, Milton, and T. H. Pendergast, Dassel, Minn. Grain-separator	284,405	Sept. 4	301	84	24	954
Fordham, Henry F., Greenport, N. Y. Ice-machine can	278,527	May 29	2504	664	23	2086
Fordham, Sidney E. (See Tetamore and Fordham.)						
Fordon, John A., Bay City, Mich. Pillow-sham holder	282,185	July 31	2350	647	24	429
Foreman, William E., Pierrepont Manor, N. Y. Barrel-adjuster	272,227	Feb. 13	797	222	23	590
Forgie, John, *et al.* (See Erlanger, Charles, assignor.)						
Forman, William S., *et al.* (See Runk, Jacob L., assignor.)						
Forney, Adam R., and J. L. Stoever, Annville, Pa. Chain-pump bucket	280,597	July 3	312	87	24	56
Forney, J. Wirt. (See Eichelberger, Abdiel W., assignor.)						
Forney, Joseph, Canfield, Ohio. Combined gate latch and hinge	273,501	Mar. 6	329	89	23	890
Forrester, Isaac N., Camden, N. J. Swing	283,388	Aug. 21	1114	315	24	713
Forrester, Isaac N., Camden, N. J., assignor of one-fourth to B. M. Keller, Philadelphia, Pa. Clutch	283,993	Aug. 28	1843	520	24	858
Forrester, Samuel, Allegheny, Pa. Station-indicator	274,927	Apr. 3	51	13, 14, 15	23	1234
Forrester, Samuel, Allegheny, Pa. Device for operating station-indicators	290,562	Dec. 18	1508	416, 417	25	1167

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Forsaith & Co., S. C., *et al.* (See Shedd, William B., assignor.)						
Forshag, George, Amite City, La. Cotton-gin	277,417	May 8	1113	299	23	1824
Forshee, William S., *et al.* (See Hey, James H., assignor.)						
Forsman, Calvin J., Columbus, Ohio. Axle-bearing for vehicles	270,214	Jan. 9	464	135	23	101
Forster, Albert G., New York, N. Y. Child's swing	275,899	Apr. 17	1245	370	23	1472
Forster, Benjamin J., Glen William, Ontario, Canada. Atmospheric-air motor	274,305	Mar. 20	1364	374	23	1084
Forster, Ferdinand E., New York, N. Y. Device for indicating shoal water	282,620	Aug. 7	174	52	24	531
Forster, Ferdinand E., New York, N. Y. Thread-mosaic	284,406	Sept. 4	301	85	24	955
Forster, Newton L., Trafalgar, Ontario, Canada. Apparatus for utilizing the ebb and flow of the tide	285,251	Sept. 18	1341	377	24	1149
Forstner, Benjamin, Salem, assignor of one-half to A. C. Gibbs, Portland, Oreg. Spoon boring-bit	280,026	June 26	1751	492	23	2444
Forsyth, Paul T., Memphis, Tenn. Fire-escape	285,606	Sept. 25	1768	501	24	1233
Forsyth, Robert, Chicago, Ill. Metallurgical plant	276,384	Apr. 24	1950	539 540	23	1584
Forsyth, William J., Leesburg, Va. Washing-machine	279,734	June 19	1390	388	23	2374
Fort, James V., Philadelphia, Pa. Shutter bower and fastener	287,816	Nov. 6	32	10	25	513
Fortson, Charles J., Washington, Ga. Car-coupling	287,270	Oct. 23	1886	516	25	361
Foschinbaur, Joseph, Chicago, Ill. Bushing for loose pulleys	277,257	May 8	931	250	23	1792
Fosdick, Frederick, Fitchburg, Mass., assignor to Fitchburg Steam Engine Company. Steam-engine valve	279,484	June 12	1094	302	23	2316
Fosdick, Jesse T., Salamanca, N. Y., assignor to C. W. Archer, Ludlow, Ky. Car-replacer	287,528	Oct. 30	2208	599	25	430
Foskett, George W., Winchendon, Mass. Machine for turning round tenons	278,118	May 22	1955	535 536	23	1982
Foss, Eli H., Campello, Mass. Fire-kindler	274,184	Mar. 20	1206	332	23	1057
Foss, Lewis T., Boston, Mass. Artificial tooth	275,625	Apr. 10	996	269	23	1404
Foss, Lewis T., Boston, Mass. Artificial tooth	275,626	Apr. 10	997	269	23	1404
Foss, Newman A., Gold Run, Mont. Ter. Iron shutter	270,047	Jan. 2	258	74	23	53
Foster, Abraham G. W., Newnan, Ga. Two-wheeled vehicle	279,931	June 26	1631	457	23	2423
Foster, Charles A., Elkhart, Ind. Two-wheeled vehicle	290,563	Dec. 18	1517	417	25	1168
Foster, Charles D., Philadelphia, Pa. Umbrella for children's carriages	288,703	Nov. 20	1153	317	25	729
Foster, Charles W. (See Salisbury and Foster.)						
Foster, Charles W., New Haven, Conn. Garment-clasp	277,700	May 15	1455	393	23	1888
Foster, Charles W., New Haven, Conn. Corset-clasp	284,730	Sept. 11	707	198	24	1030
Foster, Charles W., and W. W. Dudley, New Haven, Conn. Indian club	275,627	Apr. 10	998	270	23	1404
Foster, Dan P., Waltham, Mass. Pipe or nut wrench	282,298	July 31	2487	683	24	454
Foster, Dan P., Waltham, Mass. Pipe-tongs	286,600	Oct. 16	1032	279	25	204
Foster, Edwin A., assignor to J. Estey & Co., Brattleborough, Vt. Reed-organ	289,638	Dec. 4	330	92	25	946
Foster, Gay W., New York, N. Y. Electro-magnetic engine	277,475	May 15	1191	320	23	1844
Foster Hardware Company. (See Jones, Augustus H., assignor.)						
Foster Hardware Company. (See Miller and Jones, assignors.)						
Foster, Hickman E., assignor of one-half to W. H. Acuff and J. M. Wiswell, Decatur, Ill. Detachable hook	287,115	Oct. 23	1693	464	25	327
Foster, James D., and V. C. Harris, Huntsville, Ala. Space grain-drill and cotton-planter	270,048	Jan. 2	258	75	23	53
Foster, Job C., St. John, Cal. Stock-car	271,695	Feb. 6	133	36, 37	23	463
Foster, John F., San Francisco, Cal. Pencil-clasp	273,268	Mar. 6	29	9	23	839
Foster, John H. (See Atkinson, William B., assignor.)						
Foster, John P. C., New Haven, Conn., assignor of one-half to N. A. Thompson, Boston, Mass. Car	276,017	Apr. 17	1479	408	23	1496
Foster, John S. (See Murphy, Patrick, assignor.)						
Foster, John T., Arlington, N. J., assignor to H. F. Sise, New York, N. Y. Chopping-knife	288,044	Nov. 6	321	90	25	562
Foster, Merriam & Co. (See Merriman, Julius E., assignor.)						
Foster, Oscar S. and W. S., Utica, N. Y. Machine for making spiral springs	280,923	July 10	721	202	24	133
Foster, Samuel L., Philadelphia, Pa. Composite roofing	270,943	Jan. 23	1383	400	23	288
Foster, Stephen E., Minneapolis, Minn. Vehicle-reach coupling	273,056	Feb. 27	1864	523	23	788
Foster, Theodore W., Providence, R. I. Locket	270,296	Jan. 9	556	164	23	118
Foster, Theodore W., Providence, R. I. Locket	273,057	Feb. 27	1864	524	23	788
Foster, Timothy H., Danbury, Conn. Fire-escape	285,806	Oct. 2	29	10	25	7
Foster, Walter K., Stoneham, Mass. Pencil-sharpener	290,564	Dec. 18	1517	417	25	1169
Foster, William F., New York, N. Y. Lacing-hook for gloves	275,628	Apr. 10	998	270	23	1404
Foster, William F., New York, N. Y. Lacing-hook for gloves	276,573	May 1	38	11	23	1634
Foster, William F., New York, N. Y. Lacing gloves	277,558	May 15	1294	348	23	1860
Foster, William F., New York, N. Y. Lacing gloves	277,559	May 15	1295	348	23	1860
Foster, William G., assignor of one-half to L. E. Fitts, Chicago, Ill. Pillow-sham holder	276,574	May 1	39	11	23	1634
Foster, William S. (See Foster, Oscar S. and W. S.)						
Foster, William S., Richford, Vt. Door-bell	279,370	June 12	959	266	23	2295
Foster, William S., Richford, Vt. Gong-bell	280,924	July 10	724	203	24	134
Fotens, John H., Albany, N. Y. Device for marking the location of buttons for shoes	279,735	June 19	1391	388	23	2375
Fougeres, Louis H., and G. W. Blair, Wabash, Ind. Horse-detacher	278,928	June 5	388	106	23	2189
Foulon, Peter J., New York, N. Y. Argand-lamp burner	283,879	Aug. 28	1704	480	24	832
Foulsham, Robert, assignor of one-half to R. J. Ela, Boston, Mass. Ventilator	288,564	Nov. 13	973	268	25	685
Fountain, Vincent, Stapleton, N. Y. Pin-package	271,828	Feb. 6	294	80	23	493
Foushee, Charles W. (See Wailoy, Charles W., assignor.)						
Fouts, Clarence L., San Francisco, Cal. Pump	289,079	Nov. 27	1617	448	25	813
Fouts, M. M., *et al.* (See Wood, John M., assignor.)						
Fowler Anthony C., Brooklyn, N. Y. Revolving table-top	271,054	Jan. 23	1515	436	23	309
Fowler, Arthur H., Newark, Ohio. Portable base-burning boiler	276,621	Feb. 6	46	11, 12	23	449
Fowler Brothers. (See Holden, Warren, assignor.)						
Fowler, Charles A., New York, N. Y. Gem-setting for jewelry	274,583	Mar. 27	1747	484	23	1157
Fowler, Charles H., Boston, Mass. Speed-indicator	282,067	July 31	2181	599	24	404
Fowler, Charles S., Brooklyn, and L. A. Rockwell, New York, N. Y. Cracker-machine	288,989	Nov. 27	1503	416	25	794
Fowler, Edwin P., Brooklyn, N. Y. Spirally-coiled wire spring	283,880	Aug. 28	1705	481	24	832
Fowler, George H., Taughannock Falls, N. Y. Sulky-plow	277,258	May 8	932	250	23	1792
Fowler, Herbert E., New Haven, Conn. Brush	286,804	Oct. 16	1288	349	25	948
Fowler, Herbert E., assignor to Fowler Plating Company, New Haven, Conn. Making buckle-frames	276,797	May 1	344	92	23	1686
Fowler, Hervey W., Chicago, Ill. Spike	272,676	Feb. 20	1377	387	23	696
Fowler, Hervey W., Chicago, Ill. Rail-spike	279,736	June 19	1392	388	23	2375
Fowler, John W., and D. F. Lewis, Brooklyn, N. Y. Fare register and recorder	271,976	Feb. 6	474	129	23	523
Fowler, John W., and D. F. Lewis, Brooklyn, N. Y. Fare-register	271,977	Feb. 6	478	130	23	524
Fowler, John W., and D. F. Lewis, Brooklyn, N. Y. Fare-register	273,675	Mar. 6	559	148 149	23	929
Fowler, John W., and D. F. Lewis, Brooklyn, N. Y. Passenger-register	280,925	July 10	724	203	24	134

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Fowler, Joinville F., Alliance, Ohio. Dash-board for vehicles	282,511	Aug. 7	42	12	24	507
Fowler, Joseph. (See Arthur, Lee Roy, assignor.)						
Fowler, Joseph A. (See Gregg, William, assignor.)						
Fowler, Joseph C., Galveston, assignor of one-half to S. Taliaferro, Houston, Tex. Car-coupling	277,701	May 15	1456	393	23	1888
Fowler, Joseph W. (See Youngman, Charles A., assignor.)						
Fowler, Josiah, St. John, New Brunswick, Canada. Machine for bending springs	276,678	May 1	186	48	23	1656
Fowler, Leven H. (See Wright, Fowler, and Shaw.)						
Fowler, Nathaniel C., Boston, Mass., assignor, by mesne assignments, to Indestructible Safe and Fire Proof Company, of West Virginia. Fire-proof compound and sheet	288,935	Nov. 20	1433	.....	25	774
Fowler Plating Company. (See Fowler, Herbert E., assignor.)						
Fowler, T. Walter, assignor of one-half to D. W. Glassie, Washington, D. C. Fare-box	285,742	Sept. 25	1942	550	24	1263
Fowler, Thaddeus, Seymour, Conn. Spoke-socket	286,192	Oct. 9	506	139	25	104
Fowler, William M., Brooklyn, N. Y. Pail, tub, keg, barrel, &c	277,560	May 15	1296	348	23	1860
Fowler, William R., Philadelphia, Pa. Mechanical toy hoop	289,523	Dec. 4	189	53	25	919
Fowler, William R., assignor, by mesne assignments, to L. J. Myers, Philadelphia, Pa. Endless-belt conveyer	274,306	Mar. 20	1366	374, 375	23	1084
Fowler, William R., Philadelphia, Pa., assignor of one-half to C. L. Perkins, New York, N. Y. Toy	285,354	Sept. 18	1459	411	24	1170
Fowler, Willie H., East Hartford, Conn. Vehicle-axle	287,921	Nov. 6	166	48	25	536
Fox, Alfred D., New York, N. Y. Flexible chute used in loading and unloading apparatus	286,193	Oct. 9	507	140	25	104
Fox, Alfred D., New York, N. Y. Dredging and excavating apparatus	286,691	Oct. 16	1152	310	25	224
Fox, Alpheus, Rock Falls, Ill. Corn-planter	274,928	Apr. 3	56	15	23	1235
Fox, Amos T. and D. T., Mount Pleasant, Pa. Music-leaf turner	279,737	June 19	1393	389	23	2175
Fox, Benjamin F., Philadelphia, Pa. Window-shade roller	280,808	July 10	568	164	24	110
Fox, Charles H., Winnebago City, Minn. Hay-loader	271,055	Jan. 23	1516	437	23	309
Fox, Daniel T. (See Fox, Amos T. and D. T.)						
Fox, Edward, assignor to P. Reilly, Brooklyn, N. Y. Furnace-door	286,692	Oct. 16	1153	310, 311	25	294
Fox, Edward, Brooklyn, N. Y., assignor to himself and A. Albright, Newark, N. J. Vehicle propelled by electricity	281,859	July 24	1922	525	24	354
Fox, George H., Boston, Mass. Fore-end for breech-loading fire-arms	278,423	May 29	2379	649	23	2064
Fox, George H., Boston, Mass. Extractor for fire-arms	278,424	May 29	2380	649, 650	23	2064
Fox, George H., Boston, Mass. Making metal tubes	285,025	Sept. 18	1076	300, 301	24	1103
Fox, James S., Woodstock, Vt. Iron fence-post	269,844	Jan. 2	31	10	23	8
Fox, James S, Woodstock, Vt. Barbed-wire fastening for iron fence-posts	269,845	Jan. 2	32	10	23	8
Fox, Patrick, administrator. (See Jones, Oscar T.)						
Fox, Perley E., Marlow, N. H. Sap-spout	283,593	Aug. 21	1356	379	24	758
Fox, Samuel, Toledo, Ohio. Stuffing-box or packing-chamber	279,642	June 19	1283	356	23	2356
Fox, St. George L., London, England. Apparatus for measuring electric currents	279,371	June 12	959	266	23	2295
Fox, St. George L., London, England. Planté's secondary battery	285,807	Oct. 2	30	10	25	7
Fox, Willard H., New Haven, Conn. Spring-pin	270,410	Jan. 9	704	209	23	147
Fox, William T., Rochester, N. Y. Air-compressor	285,743	Sept. 25	1943	550	24	1263
Fox, William T., assignor to himself and S. Sloan, Rochester, N. Y. Air-pressure apparatus for forcing beer, &c	270,944	Jan. 23	1384	400	23	288
Fraikin, John J., Ottawa, Ill. Check-row corn-planter	270,049	Jan. 2	259	75	23	53
Fraim, Edward T., assignor of one-half to M. W. Fraim, Lancaster, Pa. Padlock. (Reissue)	10,272	Jan. 16	1298	374	23	268
Fraim, Miller W. (See Fraim, Edward T., assignor.) (Reissue.)						
Frain, Patrick W., St. Louis, Mo. Smoke-consuming furnace	285,867	Oct. 2	137	39	25	27
Frain, Patrick W., St. Louis, Mo. Smoke-consuming furnace	289,343	Nov. 27	1931	536	25	872
Frakes, Thomas A., and M. G. Reiners, New Holland, Ill. Combined seed-drill and rolling cutter	272,228	Feb. 13	798	222	23	590
Fraley, Alexander, assignor to himself and W. D. Malone, Grayson, Ky. Bee-hive	290,022	Dec. 11	810	228	25	1036
France, John T., *et al.* (See Corbin, Elijah H., assignor.)						
Francis, Allan E., Cleveland, Ohio. Machine for making wire clothes-pins	276,575	May 1	41	11, 12, 13	23	1634
Francis, George W., Shelbyville, Ind. Flood-gate	272,872	Feb. 27	1646	461	23	751
Francis, George W., Middletown, Conn. Manufacture of steel castings	276,018	Apr. 17	1462	.....	23	1497
Francisco, William H. (See Travis, William C., assignor.)						
Franciscus, William C., Lock Haven, Pa. Machine for coating pills with gelatine	276,385	Apr. 24	1952	540	23	1584
Franclyn, Charles G. (See Henderson, James, assignor.)						
Frank, Adolph, Charlottenburg, Prussia, Germany. Manufacturing porous silicious materials to be used as fire-bricks, filters, &c	287,817	Nov. 6	32	.....	25	513
Frank, Charles H., Amsterdam, N. Y. Electric fire-alarm and call-bell system	281,680	July 24	1684	459	24	312
Frank, D. P., *et al.* (See Hambujer, Ephraim, assignor.)						
Frank, David, Allentown, Pa. Railway-signal	278,231	May 22	2105	579, 580	23	2008
Frank, Ferdinand, Suisun, Cal. Drawer-pull	289,245	Nov. 27	1811	500	25	849
Frank, Himan, Detroit, Mich. Manufacture of glass	285,888	Oct. 2	138	39	25	27
Frankel, Alexander C., Newark, N. J. Fastening for satchels, &c	277,259	May 8	932	250	23	1793
Frankem, Isaac L., Indianapolis, Ind. Tile hearth or vestibule-floor	287,373	Oct. 23	2015	548	25	384
Frankenfield, Charles, Stroudsburg, Pa. Feed-pipe for water-tanks	280,809	July 10	589	165	24	111
Frankenfield, Robert F., *et al.* (See Deal, William M., assignor.)						
Franklin, Benjamin, assignor of one-half to F. E. Morse, Chicago, Ill. Calendar-clock	279,143	June 12	677	186	23	2249
Franklin, Eduard A., Brenham, Tex. Glove-holder	273,502	Mar. 6	331	89	23	890
Franklin, James C., Lena, Oreg. Hasp-lock	283,335	Aug. 14	1039	292	24	694
Franklin, Joseph, *et al.* (See Shoup, James C., assignor.)						
Franks, Orrin G., *et al.* (See Clark, Levi S., assignor.)						
Frary, Elisha, East New York, N. Y. Combined shovel and ash-sifter	287,116	Oct. 23	1694	464	25	327
Frary, James D., Bridgeport, Conn. Scissors	275,629	Apr. 10	1001	270	23	1404
Frary, James D., Bridgeport, Conn. Cutlery-blade	275,630	Apr. 10	1001	271	23	1405
Frary, James D., Bridgeport, Conn. Manufacture of pocket-cutlery	290,023	Dec. 11	811	228	25	1036
Frasch, Herman, Cleveland, Ohio. Process of and apparatus for the fractional distillation of hydrocarbon oils	281,045	July 10	869	241, 242	24	161
Frasch, Herman, Cleveland, Ohio. Furnace for the manufacture of carbon	281,046	July 10	872	242	24	161
Frasch, Herman, Cleveland, Ohio. Process of and apparatus for making white lead	281,047	July 10	873	242	24	161
Frasch, Herman, Cleveland, Ohio. Making elements for thermal electric generators	280,288	Oct. 9	647	.....	25	128
Frasch, Herman, Cleveland, Ohio, assignor to American Chemical Company, West Bay City, Mich. Graining or crystallizing salt, &c., and apparatus therefor	277,418	May 8	1114	299	23	1894

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Frasch, Herman, Cleveland, Ohio, assignor to American Chemical Company, West Bay City, Mich. Manufacture of salt and apparatus for use therein and for other purposes	277,419	May 8	1116	299, 300	23	1824
Frasch, Herman, assignor to J. B. Meriam, Cleveland, Ohio. Electric carbon	281,048	July 10	874	243	24	162
Fraser, Alexander, Detroit, Mich. Shingle-machine	270,297	Jan. 9	557	164	23	119
Fraser, Andrew, *et al.* (See Cummings, Charles, assignor.)						
Fraser, Arthur C., Brooklyn, N. Y. Double-current relay or electro-magnet	286,917	Oct. 16	1433	394	25	273
Fraser, Daniel, assignor to Excelsior Hatch Company, New York, N. Y. Closing and controlling hoistway-covers	278,528	May 29	2505	684	23	2087
Fraser, David R., Chicago, Ill. Furnace-protector	284,830	Sept. 11	895	230	24	1050
Fraser, Edwin J., assignor of one-half to L. W. Boyer, San Francisco, Cal. Case or envelope for putting up cigarettes for the market	276,171	Apr. 24	1674	463	23	1537
Fraser, H. A., *et al.* (See Charboneau, Pascal B., assignor.)						
Fraser, Harvey, Nepeuskun, Wis. Car-coupling	270,215	Jan. 9	465	135	23	102
Fraser, Peter, Hamilton, Ontario, Canada. Spring bed-bottom	288,223	Nov. 13	535	148	25	610
Fraser, Spencer L., Toledo, Ohio. Cover-fastening for packing-receptacles	272,873	Feb. 27	1047	461	23	751
Frash, Christian G., Brooklyn, N. Y. Apparatus for treating wine and other liquids	285,607	Sept. 25	1769	501	24	1233
Fray, John S., Bridgeport, Conn. Tool-handle	282,712	Aug. 7	296	84	24	551
Frazee, James H., and G. M. Culver, Rushville, Ind. Fire-escape	285,744	Sept. 25	1946	550	24	1263
Frazee, James H., and G. M. Culver, Rushville, Ind.; said Culver assignor to said Frazee. End-gate for wagons	281,989	July 24	2078	570	24	381
Frazer, James M., Portland, Oreg. Fish-trap	270,411	Jan. 9	705	209	23	147
Frazier, Elijah, and N. J. Edwards, Winchester, Ind. Post and well auger	284,956	Sept. 11	976	274	24	1078
Frazier, John, Searcy, Ark. Steam steering apparatus	271,326	Jan. 30	1853	537, 538	23	374
Frazier, John, Searcy, Ark. Steam-engine-reversing mechanism	271,327	Jan. 30	1855	538	23	374
Frazier, John, Searcy, Ark. Valve-gear for steam-engines	271,577	Jan. 30	2174	626	23	431
Frazier, Joseph W. (See Borchardt, Hugo, assignor.)						
Frazier, Joseph W., assignor, by mesne assignments, to Spencer Arms Company, New York, N. Y. Magazine fire-arm	290,636	Dec. 18	1603	440, 441	25	1183
Frazier, William J., New York, N. Y. Rotary engine	276,235	Apr. 24	1752	485, 486, 487, 488	23	1551
Frederick, Adam J. (See Ohly, Charles H., assignor.)						
Fredericks, Christian A., Brooklyn, N. Y. Grinding-mill	282,068	July 31	2182	600	24	404
Fredrick, Henry, Newark, N. J. Rotary meter	271,233	Jan. 30	1735	502	23	354
Fredrick, Henry, Newark, N. J. Rotary meter	287,529	Oct. 30	2209	600	25	430
Fredricks, William, and A. Brown, New York, N. Y. Toy revolver	278,005	May 22	1825	498	23	1959
Free, Eli W., Baltimore, Md. Grain and fertilizer spreading attachment for drills	277,260	May 8	933	250	23	1793
Freel, Dennis, Chariton, Iowa. Excavating or ditching device for attachment to cars	270,776	Jan. 16	1181	338, 339	23	245
Freeland, Charles D., and J. A. Wharry, assignors of one-third to P. N. Staff, Terre Haute, Ind. Fence-post	280,302	June 26	2076	584	23	2502
Freeland, William, Brooklyn, N. Y. Awning	273,503	Mar. 6	331	90	23	891
Freeley, Ella M., New York, N. Y. Artificial Russian leather	285,475	Sept. 25	1610	.....	24	1202
Freeman, Alva M., assignor of one-half to J. B. Overmeyer, Chicago, Ill. Suspenders	287,818	Nov. 6	34	10, 11	25	513
Freeman, Alva M., assignor of one-half to J. B. Overmeyer, Chicago, Ill. Suspender attachment	287,819	Nov. 6	36	11	25	513
Freeman, Arthur B., and M. F. Richardson, Lebanon, N. H. Discal calendar	290,763	Dec. 25	1776	491	25	1221
Freeman, Augustus M., Ocean Grove, N. J. Vibrating propeller	272,949	Feb. 27	1741	486	23	765
Freeman, Charles H. (See Dawson, Artemas L., assignor.)						
Freeman, Charles N., *et al.* (See Smith, John B., assignor.)						
Freeman, George W., Amherst, Nova Scotia, Canada. Adjustable holder for the sickle-bars of mowers and reapers	273,504	Mar. 6	332	90	23	891
Freeman, George W., assignor of one-half to R. B. Kyle, Gadsden, Ala. Portable hay-press	281,990	July 24	2079	570	24	381
Freeman, Henry H., Milton, Ontario, Canada. Lock and latch	290,024	Dec. 11	812	228	25	1036
Freeman, Isaac S., Balsam Lake, Wis. Traction-engine	282,299	July 31	2488	683	24	454
Freeman, Joseph B., White Hart Lane, Tottenham, county of Middlesex, England. White pigment	286,918	Oct. 16	1435	.....	25	273
Freeman, Ralza B., Blossburg, Pa. Leveling device for clocks	277,261	May 8	934	251	23	1793
Freeman & Sons, S. (See Barker, John L., assignor.)						
Freeman, Theodore A., Philadelphia, Pa. Hand-bag or satchel	281,482	July 17	1436	393	24	264
Freeman, Thomas F., Brooklyn, assignor to W. Koch, New York, N. Y. Air-compressor	290,764	Dec. 25	1777	491	25	1222
Freeman, Thomas R., *et al.* (See Allen, Samuel F., assignor.)						
Freeman, Thomas R., assignor of two-thirds to C. H. R. Biester and J. S. Toppan, Chicago, Ill. Lubricator	286,289	Oct. 9	648	172	25	128
Freeman, Thomas R., assignor to himself and J. B. Vandaworker, Sioux Falls, Dak. Ter. Machine for bending metal	288,936	Nov. 20	1434	394	25	774
Freeman, Walter F. (See Perrin, William J., assignor.)						
Freeman, Walter F., assignor of three-fourths to R. F. Shrewder, G. A. Cage, and B. F. Read, Mineola, Tex. Car-coupling	278,789	June 5	154	45	23	2148
Freeman, Walter K., Brooklyn, N. Y., assignor to W. F. Jobbins, East Orange, N. J. Armature for dynamo-electric machines or electric motors	270,777	Jan. 16	1182	339, 340	23	245
Freeman, Walter K., Brooklyn, N. Y., assignor to W. F. Jobbins, East Orange, N. J. Secondary electric battery	270,778	Jan. 16	1183	341	23	246
Freeman, Warren P., New York, N. Y., assignor to W. F. Jobbins, East Orange, N. J. Dynamo-electric machine	270,779	Jan. 16	1184	341	23	246
Freeman, Warren P., New York, N. Y., assignor to W. F. Jobbins, East Orange, N. J. Dynamo-electric machine	270,780	Jan. 16	1184	341, 342	23	246
Freeman, Warren P., New York, N. Y., assignor to W. F. Jobbins, East Orange, N. J. Armature for dynamo-electric machines	270,781	Jan. 16	1186	342	23	246
Freeman, Warren P., New York, N. Y., assignor to W. F. Jobbins, East Orange, N. J. Armature for dynamo-electric machines	281,049	July 10	875	243	24	162
Freeman, Warren P., assignor to W. F. Jobbins, Brooklyn, N. Y. Indicator for electric lighting systems	287,654	Oct. 30	2388	644	25	463
Freeman, Warren P., assignor to W. F. Jobbins, Brooklyn, N. Y. Electric-arc lamp	289,823	Dec. 11	562	157, 158	25	991
Freeman, Warren P., assignor to W. F. Jobbins, Brooklyn, N. Y. Governor for dynamo-electric machines	290,025	Dec. 11	813	229	25	1037
Freeport Machine Company. (See Schofield, Silas C., assignor.)						
Freer, Charles S. (See Riley and Freer.)						
Freer, George N., Blue Earth City, Minn. Buckle	279,237	June 13	774	214	23	2365
Freer, Jacob S., *et al.* (See Hill, Frederick D., assignor.)						
Frees, Louis C. F., New York, N. Y. Necktie-fastener	282,976	Aug. 14	590	167	24	612

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Freese, Francis J., Manchester, N. H., assignor to himself and W. E. Bass, Lawrence, Mass. Loom-shuttle	276,019	Apr. 17	1483	409	23	1497
Freid, Albert H. (See Freid, Amos J. and A. H.)						
Freid, Amos J. and A. H., Dow City, Iowa. Ironing-table	272,950	Feb. 27	1742	486	23	765
Fremont Cultivator Company. (See Stahl, Harlow C., assignor.)						
French, Alonzo, Philadelphia, Pa. Lamp-supporting device	290,096	Dec. 11	814	229	25	1037
French, Andrew, *et al.* (See Lash, John S., assignor.)						
French, Brooks, Fort Wayne, Ind. Reed-organ stop-action	279,372	June 12	960	267	23	2295
French, Charles H. (See Morgan and French.)						
French, Cicero R. C, Providence, R. I. Screw-tap	270,216	Jan. 9	466	136	23	102
French, Cicero R. C., Providence, R. I. Screw-tap	275,815	Apr. 17	1245	343	23	1454
French, Cicero R. C., Providence, R. I. Reamer	280,368	July 3	36	10	24	8
French, George B., New York, N. Y. Cigar-coloring machine	286,412	Oct. 9	796	215	25	155
French, George B., New York, N. Y. Cigar-coloring machine	286,413	Oct. 9	797	215	25	155
French, Hamline Q., Pelham Manor, and G. G. Shenton, Brooklyn, N. Y.; said Shenton assignor to said French. Double-acting pump	271,829	Feb. 6	295	81	23	493
French, James H., Willimantic, Conn. Fire-kindler	270,298	Jan. 9	558	164	23	119
French, James H., Elizabethtown, Ky. Bee-hive	281,483	July 17	1430	393	24	965
French, John H., Northampton, Mass. Clothes-rack	287,655	Oct. 30	2389	644	25	464
French, Josiah F., Philadelphia, Pa. Handle for files and other tools	285,987	Oct. 2	256	72	25	49
French, Josiah F., Philadelphia, Pa. Handle for files and other tools	285,988	Oct. 2	257	73	25	49
French, Josiah F., Philadelphia, Pa. File and other tools having tapering tangs	285,989	Oct. 2	258	73	25	49
French, Josiah F., Philadelphia, Pa. Tool-handle	285,990	Oct. 2	259	73	25	49
French, Josiah F., Philadelphia, Pa. Handle for files and other tools	285,991	Oct. 2	260	73	25	49
French, Josiah F., assignor of one-half to J. B. Smith Company, Philadelphia, Pa. File-handle	281,626	July 17	1611	440	24	294
French, Josiah F., assignor of one-half to J. B. Smith Company, Philadelphia, Pa. Buck-saw	281,627	July 17	1612	441	24	294
French, Josiah F., assignor of one-half to J. Barton Smith Company, Philadelphia, Pa. Handle for files and other tools	288,045	Nov. 6	322	91	25	562
French, Josiah F., assignor of one-half to J. Barton Smith Company, Philadelphia, Pa. Handle for files and other tools	288,046	Nov. 6	323	91	25	562
French, Josiah F., assignor of one-half to J. Barton Smith Company, Philadelphia, Pa. Handle for files and other tools	288,047	Nov. 6	324	91	25	562
French, Lyman P., Boston, Mass. Furnace	287,656	Oct. 30	2390	645	25	464
French, Samuel E., New York, N. Y. Garment-stretcher	283,994	Aug. 28	1844	520	24	859
French, Sharon, Silver Lake, Kans. Cultivator	289,294	Dec. 11	563	158	25	992
French Spiral Spring Company. (See Hansell, Walter P., assignor.)						
French, William A. (See Eaton, George S., assignor.)						
French, William C., Boston, Mass. Sewing-machine	276,798	May 1	344	92	23	1686
French, Zachary T., Boston, Mass., assignor to Goodyear & McKay Sewing Machine Company, Hartford, Conn. Lasting-jack or holder for boots and shoes	274,091	Mar. 13	1063	298	23	1027
French, Zachary T., assignor to Goodyear & McKay Sewing Machine Company, Boston, Mass. Lasting-jack or holder for boots or shoes	281,258	July 17	1154	319	24	217
Frenier, Joseph. (See Scott and Frenier.)						
Frenier, Joseph, La Porte, Ind. Vehicle-wheel	285,401	Sept. 25	1524	429	24	1187
Frenier, Joseph, La Porte, Ind. Wheel	290,294	Dec. 18	1058	297	25	1090
Frentress, Henry N., assignor of two-thirds to C. W. Ware, East Dubuque, Ill. Freight-car door	288,565	Nov. 13	974	268	25	685
Freschl, Alfred, Detroit, Mich. Burial-casket	278,929	June 5	389	106	23	2189
Frese, Bernard, Chicago, Ill. Plaiting-machine	275,760	Apr. 10	1166	320	23	1433
Frese, Bernard, Chicago, Ill. Electric fire-alarm box	277,020	May 8	640	167	23	1741
Freudenberg, Max, Ems, Germany. Fume-arrester for chimney-flues	276,386	Apr. 24	1953	540	23	1584
Freund, George. (See Reed and Freund.)						
Freund, George, Durango, Colo. Cap for firing explosive charges	289,768	Dec. 4	490	136	25	971
Frew, Robert, Pittsburg, Pa. Seal-lock	274,929	Apr. 3	57	15	23	1235
Frey, Charles, Baltimore, Md. Siphon	273,058	Feb. 27	1865	524	23	788
Frey, Gustav. (See Flammiger and Sobinski, assignors.)						
Frey, Gustav. (See Miller, John S., assignor.)						
Frey, John A., Colesville, Md. Can	279,738	June 19	1394	389	23	2375
Frey, Joseph J. B., New York, N. Y. Bowl for water-closets	275,900	Apr. 17	1346	370, 371	23	1473
Frey, Philip R., Western Union, Wis. Car-brake	277,476	May 15	1193	320	23	1844
Freyre, Luis, Seville, Spain. Gas-check for breech-loading ordnance	270,299	Jan. 9	559	164	23	119
Frichette, Peter, Sheridan, Cal. Machine for straightening or bending rails	273,353	Mar. 6	150	42	23	859
Frick, Abraham O. (See Rider, Snyder, and Frick.)						
Frick, Abraham O. (See Snyder and Frick.)						
Frick, Abraham O., and W. H. Snyder, Waynesborough, Pa. Road-engine	273,978	Mar. 13	943	259	23	1003
Frick, Charles E., assignor to himself and C. D. Ficks, Cincinnati, Ohio. Guard for band-pulleys	272,677	Feb. 20	1377	387	23	696
Friebel, Richard, Leipsic-Reudnitz, assignor to E. Berger, Reudnik, near Leipsic, Germany. Engraving-machine	281,484	July 17	1437	393	24	965
Fried, Edward. (See Erwin, Thomas M., assignor.)						
Fried, Joseph, Chicago, Ill. Producing paper ornaments	286,693	Oct. 16	1155	311	25	225
Friedemann, August. (See Friedemann, Johann G., assignor.)						
Friedemann, Johann G., Waverly, assignor to A. Friedemann, Bremer County, Iowa. Harrow	280,303	June 26	2076	585	23	2502
Friedheim, David, New York, N. Y. Fire-escape	275,816	Apr. 17	1246	343	23	1454
Friedländer, Henry. (See Friedländer, Jacob and H.)						
Friedländer, Jacob and H., Memphis, Tenn. Weighing-scoop	273,979	Mar. 13	944	260	23	1003
Friedli, Albert, Berne, Switzerland. Frame for band-saws	286,919	Oct. 16	1435	394	25	273
Friedrichs, Ernest H., New York, N. Y. Apparatus for the application of paint or coloring material to artists' academy-boards	287,530	Oct. 30	2210	600	25	430
Friedrick, Alphonse, Brooklyn, N. Y. Lead sash-bar	271,696	Feb. 6	134	37	23	463
Friedrick, Alphonse, Brooklyn, N. Y. Building lead sash for glazing purposes	271,697	Feb. 6	134	37	23	463
Friedrick, Alphonse, Brooklyn, N. Y. Flexible soft-metal sash-bar	283,093	Aug. 14	737	207	24	638
Friedrick, Theodore, Ottawa, Ontario, Canada. Combined lock and latch	279,932	June 26	1631	458	23	2423
Friend, Augustus F., Gravesend, N. Y. Dredger for shell-fish	279,373	June 12	962	267	23	2295
Friend, Herrman, New York, N. Y. Straw braid	272,229	Feb. 13	799	222	23	590
Friend, Jesse L., assignor of one-half to U. A. Ager, Perrysburg, Ind. Brick and tile kiln	275,477	Apr. 10	807	218, 219	23	1372
Fries, William L., Milton, Pa. Horse-collar fastener	290,673	Dec. 25	1651	455	25	1198
Frink, George S., *et al.* (See Blass, Talmadge, assignor.)						
Frink, Herbert J., Chicopee, Mass. Paper calender-roll	285,476	Sept. 25	1611	452	24	1903
Frink, Isaac P., New York, N. Y. Reflector for chandeliers, &c	274,930	Apr. 3	58	15, 16	23	1335

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Frink, John H., Detroit, Mich. Duplicate memorandum or sales slip	288,048	Nov. 6	325	91	25	563
Frisbee, Edward L., Jr., *et al.* (See Stever, Jeremiah, assignor.)						
Frisbie, Edward L., Jr. (See Clowes and Frisbie.)						
Frisbie, Henry R., Bridgeport, Conn. Valve	275,184	Apr. 3	391	107	23	1294
Frishmuth, William, Philadelphia, Pa., assignor to himself, G. R. Blanchard, and E. Foote, New York, N. Y. Extracting aluminium from corundum, &c.	282,621	Aug. 7	177	.....	24	531
Frishmuth, William, Philadelphia, Pa., assignor to himself, G. R. Blanchard, and E. Foote, New York, N. Y. Extracting aluminium from corundum, &c.	282,622	Aug. 7	178	.....	24	531
Fritts, Peter C., assignor of one-half to R. I. Grey, Eureka Springs, Ark. Breast-strap protector	284,546	Sept. 4	468	133	24	984
Fritz, Louis, Memphis, Tenn. Jacketed vessel	288,990	Nov. 27	1504	416	25	794
Frizell, Charles, Boston, Mass. Extension-ladder	281,681	July 24	1686	459	24	312
Frohn, Ernest, *et al.* (See Stürmer, August, assignor.)						
Fromm, William H., Elizabethport, N. J. Hydrant	270,782	Jan. 16	1186	342	23	247
Fronheiser, James J., Johnstown, Pa. Blast-furnace	283,512	Aug. 7	43	13	24	507
Fronheiser, James J., Johnstown, Pa. Preparing powdered or granulated ores for furnaces	287,117	Oct. 23	1694	.....	25	397
Frost, Abel H. (See Ames and Frost.)						
Frost & Co., George. (See Brown, F. Barton, assignor.)						
Frost, Dan H. (See Jasmagy and Frost.)						
Frost, Daniel, and H. Cartwright, Portland, Oreg. Reflecting-mirror attachment for locomotives	282,623	Aug. 7	179	52	24	531
Frost, Edward J. (See Lawrence and Frost.)						
Frost, Edward J., Philadelphia, Pa. Gas-engine	273,269	Mar. 6	29	9	23	839
Frost, Edward J., Philadelphia, Pa. Apparatus for producing illuminating gas or vapor	278,529	May 29	2508	685	23	2087
Frost, Edward J., Philadelphia, Pa. Device for automatically regulating quality of illuminating-vapor	282,069	July 31	2184	600	24	404
Frost, Edwin S., Watkins, N. Y. Grain-binder	280,461	July 3	159	43, 44	24	29
Frost, Francis S. (See Safford, Mark, assignor.)						
Frost, Francis S., Arlington, Mass. Easel	275,631	Apr. 10	1002	271	23	1405
Frost, Harry B., Paterson, N. J. Flier for spinning-frames	277,262	May 8	935	251	23	1793
Frost, Henry J., Jr., Wooster, Ohio. Shaft-loop	273,505	Mar. 6	333	90	23	891
Frost, Howard B., assignor to O. S. Judd and C. Blakeslee, New Britain, Conn. Sash-fastener	270,542	Jan. 9	880	255	23	182
Frost, Stiles, Boston, Mass. Staple	274,481	Mar. 27	1619	449	23	1135
Frost, Warren H., Worcester, Mass., assignor of one-half to S. E. Henderson, Cleveland, Ohio. Toy or musical instrument	270,543	Jan. 9	881	255	23	182
Frost, William A., *et al.* (See Foley, Patrick, assignor.)						
Frothingham, Arthur, Scranton, Pa. Primer for blasting-cartridges	273,270	Mar. 6	31	10	23	840
Fruhling, William A., Jr., San José, Cal. Nasal respirator	270,655	Jan. 16	1027	295	23	217
Fry, George. (See Ekman, Fry, and Espeut.)						
Fry, Henry R., Grant County, Ind. Map-case	273,059	Feb. 27	1866	524	23	788
Fry, Hugh B., Batesville, Ark. Cotton-cultivator	281,259	July 17	1155	319	24	217
Fry, Jacob R., Jr., Springfield, Ohio. Crank-coupling	290,565	Dec. 18	1518	418	25	1169
Fry, John, assignor of three-fourths to J. M. Romack, D. G. Glenn, and J. S. Clem, Mount Jackson, Va. Corn-harvester	290,027	Dec. 11	815	229, 230	25	1037
Fry, Phares W., Lancaster, Pa. Window-screen	278,006	May 22	1896	498	23	1959
Fryer, Ida J., *et al.* (See Fryer, Robert M., assignor.)						
Fryer, John O., Chelsea, Mass. Jacquard loom. (Reissue)	10,379	Sept. 11	1020	286, 287	24	1087
Fryer, Robert M., New York, N. Y. Engine	283,704	Aug. 21	1484	418	24	783
Fryer, Robert M., assignor to G. D. Leonard and I. J. Fryer, New York, N. Y. Screw-propeller	283,336	Aug. 14	1039	292	24	694
Fryer, Robert W. (See Butel, Alexander H., assignor.)						
Fuchs, Ernst, Chicago, Ill. Sifting apparatus	282,300	July 31	2489	683	24	454
Fuchs, Henry, St. Louis, Mo. Barb-wire machine	278,930	June 5	390	107	23	2190
Fudge, Enoch H., *et al.* (See Brennan, James R., assignor.)						
Fuessenich, William F., Torrington, Conn. Combined needle-clamp and thread-cutter for sewing-machines	284,124	Aug. 28	2030	565	24	889
Fulgham, Jesse P., assignor of one-half to Wayne Agricultural Company, Richmond, Ind. Fertilizer attachment for seeding-machines	271,622	Feb. 6	47	12, 13	23	449
Fuller, Abbott F. (See Shinn and Fuller.)						
Fuller, Arthur, *et al.* (See Bacon, Charles H., assignor.)						
Fuller, Charles E., *et al.* (See Fisher, William C., assignor.)						
Fuller, Charles E., *et al.* (See Parker, Theodore H., assignor.)						
Fuller, Charles L. (See Cowles, Milan, assignor.)						
Fuller, Claude V., assignor of one-fourth to F. H. Tinker, New York, N. Y. Table-caster	280,304	June 26	2077	585	23	2502
Fuller, Cornelius, assignor to Somerset Co-operative Foundry Company, Somerset, Mass. Cooking range or stove	272,131	Feb. 13	686	187	23	570
Fuller, Eben E., Big Lake, assignor of one-half to G. Houghton, Minneapolis, Minn. Baling-press	288,937	Nov. 20	1435	395	25	774
Fuller Electrical Company. (See Wood, James J., assignor.)						
Fuller, Eustis R. (See Seagrave and Fuller.)						
Fuller, Frank, *et al.* (See Fisher, William C., assignor.)						
Fuller, Frank, *et al.* (See Parker, Theodore H., assignor.)						
Fuller, Frank W., San Francisco, Cal. Automatic belt-shifter for elevators	290,674	Dec. 25	1652	455	25	1196
Fuller, George A. (See Perkins, George A., assignor.)						
Fuller, George H. (See Shaw, Albert C., assignor.)						
Fuller, George H., Pawtucket, R. I. Manufacture of jewelers' findings	286,601	Oct. 16	1033	279	25	204
Fuller, George P., New Richmond, Wis. Washing-machine	284,622	Sept. 11	566	160	24	1006
Fuller, George W., Norwich, Conn. Dynamo-electric machine	278,119	May 22	1957	536, 537	23	1983
Fuller, George W., Norwich, Conn. Dynamo-electric machine	278,120	May 22	1960	537	23	1983
Fuller, George W., Norwich, Conn. Dynamo-electric machine	278,121	May 22	1963	538, 539	23	1983
Fuller, George W., Norwich, Conn. Dynamo-electric machine	278,122	May 22	1967	539, 540	23	1984
Fuller, George W., Norwich, Conn. Dynamo-electric machine	286,414	Oct. 9	798	216	25	155
Fuller, George W., Norwich, Conn. Armature for dynamo-electric machines	286,415	Oct. 9	800	216	25	155
Fuller, George W., Norwich, Conn. Dynamo-electric machine	286,416	Oct. 9	801	216	25	156
Fuller, Hiram E., New York, assignor to E. A. Bramhall, Brooklyn, N. Y. Boring-bit	283,705	Aug. 21	1486	418	24	783
Fuller, Joseph F., and C. H. Knowlton, Lowell, Mass. Foot-power machine	274,185	Mar. 20	1206	332	23	1057
Fuller, L. Eugene, and J. H. Macauley, Chicago, Ill. Sheet-metal can	273,060	Feb. 27	1867	524	23	788
Fuller, Levi K., Brattleborough, Vt. Railway-recorder	272,230	Feb. 13	799	223	23	590

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Fuller, Levi K., assignor to Estey Organ Company, Brattleborough, Vt. Harmonic coupler for musical instruments	290,984	Dec. 25	2065	568	25	1269
Fuller, Lysander A., Stoneham, Mass. Sled-propeller	289,302	July 31	2490	684	24	454
Fuller, Merritt B., Sanborn, N. Y. Combined hand corn-planter and fertilizer-distributer	270,581	Jan. 16	928	268	23	199
Fuller, Samuel S., and R. Salvadge, Stratford, Ontario, Canada. Automatic car-brake	286,127	Oct. 2	424	116	25	79
Fuller, Spencer H., Lewiston, Me. Watch-check	284,023	Sept. 11	568	160	24	1006
Fuller, Warren C., Yarmouth, Mass. Surge-reliever	272,874	Feb. 27	1649	461	23	751
Fuller, Willard M., New York, assignor to C. Pyle, Brooklyn, N. Y., and D. Eldridge, New Brunswick, N. J. Car-heater	274,753	Mar. 27	1941	540	23	1192
Fuller, Willard M., New York, assignor of one-half to F. S. Burr and J. B. Richmond, Brooklyn, N. Y. Pulverizing machinery for ores, &c	278,232	May 22	2107	580	23	2008
Fulmer, Edward, Mount Olive, Ala. Securing cultivator and harrow teeth	287,531	Oct. 30	2211	600	25	430
Fulton, Alfred, assignor of one-third to P. Peterson, Chicago, Ill. Car-coupling	277,837	May 15	1616	441	23	1917
Fulton, David, Hutchinson, Minn. Ditching-plow	275,375	Apr. 10	666	178	23	1348
Fulton, Harmon H. (See Olsen and Fulton.)						
Fulton, Harmon H., and O. R. Olsen, assignors to Indianapolis Machine and Bolt Works, Indianapolis, Ind. Pulley	278,425	May 29	2381	650	23	2064
Fulton, Harmon H., and O. R. Olsen, assignors to Indianapolis Machine and Bolt Works, Indianapolis, Indiana. Pulley	282,513	Aug. 7	44	13	24	508
Fulton, John M., assignor of two-thirds to J. H. McCahon and E. E. Richards, Roanoke, Ind. Stand for holding wrapping-paper and paper bags	289,825	Dec. 11	564	158	25	992
Fulton, Louis B., Pittsburg, Pa. Ejector and injector	280,733	July 3	477	135	24	85
Fulton, Louis B., Pittsburg, Pa. Ejector	281,050	July 10	876	244	24	162
Fulton, Louis B., Pittsburg, Pa. Gage-cock. (Reissue)	10,398	Oct. 30	2575	692	25	499
Fulwiler, James A., Lexington, Ill. Rag-joining knife	288,991	Nov. 27	1506	416	25	794
Fulwiler, James A., Lexington, Ill. Nut-lock	290,028	Dec. 11	816	230	25	1037
Funk, Carl A., *et al.* (See Weller, Wanee, and Roesch, assignors.)						
Funk, Frank, Beverly, Ill. Agricultural boiler	286,805	Oct. 16	1289	349	25	249
Funk, Frank, Beverly, Ill. Wagon-bed lifting-jack	286,806	Oct. 16	1290	349	25	249
Funk, Frank, Beverly, Ill. Tank for watering stock	290,675	Dec. 25	1653	456	25	1198
Funk, Lewis S., Troy, Pa. Washing-machine	283,094	Aug. 14	738	207	24	639
Funk, Wilson R., Cleves, Ohio. Automatic uncoupler	286,920	Oct. 16	1436	394	25	273
Funke, Charles. (See Bergqvist, John, assignor.)						
Funkhouser, John S. (See Saunders and Funkhouser.)						
Furbee, Thomas J., Bishop Creek, Cal. Car-truck	287,374	Oct. 23	2015	548	25	394
Furbish, Isaiah M., Augusta, Me. Screw-driver	277,561	May 15	1297	348	23	1860
Furbish, Zachary T. (See Mallett and Furbish.)						
Furbush, James W., Lynn, Mass. Button-hole sewing-machine	276,387	Apr. 24	1953	541	23	1585
Furey, Cyrus R., assignor of one-half to J. H. Barnhart, Logansport, Ind. Breast-strap slide and hook	284,547	Sept. 4	469	133	24	984
Furlong, James E. (See Furlong, Simon E. and J. E.)						
Furlong, James M., Rochester, N. Y. Churn-power	276,799	May 1	346	92	23	1687
Furlong, Simon E. and J. E., Woburn, Mass. Mechanism for straightening and keeping straight band knives and saws	284,957	Sept. 11	977	275	24	1078
Furman, Alonzo B., Strattonville, assignor to himself and J. E. Dean, Reynoldsville, Pa. Wagon-jack	274,584	Mar. 27	1747	485	23	1157
Furman, John A., Newark, N. J. Process of and apparatus for molding hollow articles from celluloid and other compounds of pyroxyline	282,451	July 31	2687	737	24	489
Furman, Olliver P., assignor of one-half to W. B. Taylor, Canisteo, N. Y. Shipping-package	274,754	Mar. 27	1942	540	23	1193
Furman, Samuel M., assignor of one-half to W. H. Lewis, Henderson, Ky. Surgical bandage	283,478	Aug. 21	1221	343	24	732
Furnace, Peter J., *et al.* (See Brunell, Mineheart, assignor.)						
Furnace, Victor A., *et al.* (See Brunell, Mineheart, assignor.)						
Furnas, Robert W., Indianapolis, Ind. Ice-cream freezer	280,734	July 3	479	135	24	85
Furness, George, and J. Robertshaw, Manchester, county of Lancaster, England. Curtain-roller	286,194	Oct. 9	509	140	25	104
Furney, Elliott E., assignor to G. B. Allen, St. Louis, Mo. Capstan	290,029	Dec. 11	817	{230 / 231}	25	1037
Furrer, Joseph, Toledo, Ohio. Artificial leg	277,562	May 15	1298	349	23	1860
Furst & Bradley Manufacturing Company. (See Bradley, Byron C., assignor.)						
Furst & Bradley Manufacturing Company. (See Hague, Charles A., assignor.)						
Fuson, William T., assignor of one-half to A. Walliker, Griswold, Iowa. Attachment for beds	277,563	May 15	1299	349	23	1861
Fussell, Mordecai T., New York, N. Y. Non-heat-conducting envelope for ice-cream, &c	271,698	Feb. 6	135	37	23	463
Fussell, William L., Philadelphia, Pa. Umbrella and parasol	288,566	Nov. 13	975	268	25	696
Fusz, Paul A. (See Barrett, Robert, assignor.)						
Fye, Theodore H. (See Belknap and Fye.)						
Fyfe, Alexander, and T. Rawson, Paterson, N. J. Pump	285,402	Sept. 25	1525	429	24	1187
Gaar, Scott & Company. (See Campbell, Howard, assignor.)						
Gable, Frederic S., Glen Rock, Pa. Mechanism for converting motion	290,566	Dec. 18	1519	418	25	1169
Gabus, Emile H., Stryker, Ohio. Crosscut-saw	271,050	Jan. 23	1517	437	23	309
Gabus, Emile H., Stryker, Ohio. Saw	277,021	May 8	644	168	23	1742
Gaetje, John, Fort Wayne, Ind. Foot-railing for counters	285,403	Sept. 25	1526	430	24	1187
Gaffey, John F. and G. W. Cook, New Haven, Conn. Rifle-sight	290,225	Dec. 18	1059	297	25	1090
Gage, Chapman E., assignor to himself and J. L. Knudtson, Whitehall, Wis. Grain-screen	287,657	Oct. 30	2393	645	25	465
Gage, Ira B., Dowagiac, Mich. Sheaf-carrier	282,303	July 31	2491	684	24	455
Gage, James E. (See Farrington, James M., assignor.)						
Gage, James L., assignor of one-half to N. Mears, Chicago, Ill. Wood-cutting machine	272,038	Feb. 13	564	{152 / 153}	23	550
Gage, John. (See Bridges, David A., assignor.)						
Gage, Morgan L., Vassar, Mich. Attachment for emptying tea-chests	280,168	June 26	1904	536	23	2472
Gage, Parker W., trustee. (See Tomlinson and Balch, assignors.)						
Gager, Oliver A., Brooklyn, N. Y. Oval or circular dish made from ceramic material or glass	275,033	Apr. 3	203	54	23	1260
Gaillard, E. Neilson, New York, N. Y. Speaking-tube	285,120	Sept. 18	1188	333	24	1128
Gaines, James P., Kuttawa, Ky. Car-coupling	270,412	Jan. 9	706	209	23	148
Gainford, Thomas. (See Plummer and Gainford.)						
Gairaud, Louis, Santa Clara, Cal. Tree-planter	283,594	Aug. 21	1357	379	24	758
Gairaud, Louis, Santa Clara, Cal. Land-marker	287,118	Oct. 23	1696	464	25	327
Galashan, William A. (See Gass and Galashan.)						
Galbraith, Archimedes, Amadore, Mich. Felly-tightener	270,413	Jan. 9	707	209	23	148
Galbraith, Archimedes, Amadore, Mich. Tire-tightener	281,485	July 17	1438	394	24	265
Gale, Curtis J., *et al.* (See Van Slyke, James M., assignor.)						
Gale, Horatio, Albion, Mich. Horse hay-rake	290,411	Dec. 18	1492	362	25	1131

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Galentine, Elias C., assignor of one-half to T. B. Lee, Bourbon, and D. L. Dickinson, Plymouth, Ind. Car-coupling	279,485	June 12	1095	302	23	2316
Galivan, David, and J. C. Manning, Buffalo, N. Y. Fire-escape	285,808	Oct. 2	31	11	25	8
Gallagher, Patrick, New York, N. Y. Machine for scrubbing floors	271,830	Feb. 6	296	81	23	493
Gallaher, John S., assignor to himself and M. C. Millar, Washington, D. C. Roller-skate	287,820	Nov. 6	36	11	25	514
Gallaher, Lorinda, Wheeling, W. Va. Hoop-skirt	277,263	May 8	925	251	23	1793
Gallaher, Lorinda, Wheeling, W. Va. Fruit-jar	278,530	May 29	2509	685	23	2067
Gallahue, Alpheus C., Rhinebeck, N. Y. Valve-gear for steam-engines	275,376	Apr. 10	668	178	23	1348
Galland, Bonham, Gold Hill, Nev. Cabinet steam-bath	270,564	Jan. 9	906	261	23	186
Gallat, Thiebeaud, Cincinnati, Ohio. Catch-basin	279,374	June 12	963	267	23	2296
Gallentine, Abraham D., Marion, Ind. Combined register and ventilator	282,977	Aug. 14	591	167	24	612
Galley, James G., Forest Gate, county of Essex, England. Furnace fire-bar	270,582	Jan. 16	929	269	23	199
Gallinant, Adolphe, Roslyn, N. Y. Car-buffer	278,328	May 29	2256	618	23	2042
Gallinant, Adolphe, Roslyn, N. Y. Regulator for controlling the descent of elevator-cars	287,922	Nov. 6	166	48	25	536
Gallis, Rudolph P., Hartford, Conn. Combined instrument for leveling, surveying, &c	272,231	Feb. 13	801	223	23	501
Galloway, Charles J., and J. H. Beckwith, Manchester, county of Lancaster, England. Governor for steam-engines	289,246	Nov. 27	1812	501	25	849
Galloway, James W., Bolton, county of Lancaster, England. Forcing and mixing pump	275,632	Apr. 10	1003	271	23	1405
Galloway, John, New York, N. Y. Stenographic machine	288,419	Nov. 13	800	217	25	655
Gallup, John W., Denison, Tex. Manufacture of artificial stone	290,765	Dec. 25	1778	.....	25	1222
Gallup Novelty Works. (See Gallup and Churchill, assignors.)						
Gallup, William H., and L. Churchill, assignors to Gallup Novelty Works, Troy, N. Y. Shirt-waist	289,639	Dec. 4	331	92, 93	25	946
Gallup, William H., and L. Churchill, assignors to Gallup Novelty Works, Troy, N. Y. Shirt-waist	289,640	Dec. 4	333	93	25	946
Gally, Merritt, New York, N. Y. Mechanical musical instrument	279,933	June 26	1633	458, 459	23	2423
Gally, Merritt, New York, N. Y. Mechanical musical instrument	282,877	Aug. 7	483	136	24	586
Gally, Merritt, New York, N. Y. Stop-movement for printing, embossing, and power presses	287,821	Nov. 6	38	12	25	514
Galny, Augustus, Galveston, Tex. Abdominal supporter	284,831	Sept. 11	826	230	24	1051
Galpen, Horace. (See Livermore, Edward, assignor.)						
Galster, Gabriel J. W., New York, N. Y. Apparatus for cutting forms from a layer or layers of fibrous or other material	288,049	Nov. 6	326	92	25	563
Galt, Thomas A., *et al.* (See Johnson, William H., assignor.)						
Galvin, John. (See Galvin, Thaddeus and J.)						
Galvin, John W., Portsmouth, Ohio. Mold for casting	284,407	Sept. 4	304	85	24	955
Galvin, Thaddeus, Detroit, Mich. Water-gage	279,144	June 12	681	186	23	2249
Galvin, Thaddeus and J., Detroit, Mich. Valve	283,479	Aug. 21	1222	344	24	732
Galwey & Bainbridge. (See Sturgeon, Thomas, assignor.)						
Gamble, Henry E., assignor of one-half to O. H. Mann, Evanston, Ill. Thill-coupling	288,992	Nov. 27	1507	417	25	794
Gamble, John E., East Liverpool, Ohio. Brick-kiln	273,354	Mar. 6	152	42, 43	23	860
Gamble, William, *et al.* (See Aldrich, Wales, assignor.)						
Gambllee, Jeuleos, and J. F. Haring, Creeskill, assignors to themselves and J. H. Huyler, Tenafly, N. J. Car-axle	273,506	Mar. 6	334	90	23	891
Gamewell Fire Alarm Telegraph Company. (See Wood, Frank B., assignor.)						
Gamgee, Sampson, Birmingham, county of Warwick, assignor to W. B. Robinson, Wheat Bridge Mills, New Brampton, England. Manufacture of fabrics for surgical and medical dressing	282,624	Aug. 7	180	.....	24	532
Gandolfo, Joseph, New York, N. Y. Apparatus for manufacturing bicarbonate of soda	279,145	June 12	682	187	23	2249
Gandy, Cornelius T., Bridgeton, N. J. Fifth-wheel plate	281,357	July 17	1274	354	24	238
Gandy, Felix T., Rubens, Kans. Harrow	284,832	Sept. 11	827	230	24	1051
Gandy, Lewis C., Humboldt, Nebr. Grading-machine	288,420	Nov. 13	802	218	25	655
Gandy, Maurice, Liverpool, county of Lancaster, England. Sewing-machine	282,625	Aug. 7	182	53	24	532
Gano, John A., Cincinnati, Ohio. Furnace for locomotive and other boilers	274,482	Mar. 27	1620	449	23	1135
Gano, John A., Cincinnati, Ohio. Furnace for locomotive and other boilers. (Reissue)	10,396	Oct. 23	2051	557	25	391
Gano, Nathan L., Fernandina, Fla. Saw-tooth swage	280,598	July 3	312	87	24	56
Ganss, Henry, assignor of one-half to L. Loewns and M. Foltz, New York, N. Y. Muff	272,380	Feb. 13	993	277	23	624
Ganss, Jacob, Brooklyn, assignor to himself and J. Blackwood, New York, N. Y. Alarm mechanism for clocks	277,702	May 15	1458	393	23	1888
Ganster, George P., Reading, Pa. Clock and watch spring	286,417	Oct. 9	802	217	25	156
Ganster, George P., Reading, Pa. Apparatus for winding clocks by air-currents	286,418	Oct. 9	803	217	25	156
Ganster, George P., Reading, Pa. Clock-escapement	286,419	Oct. 9	805	217	25	156
Ganster, George P., Reading, Pa. Time mechanism for lighting and extinguishing illuminating-fluids	289,826	Dec. 11	566	158	25	992
Gantert, Hermann A., San Francisco, Cal. Water-heater	278,123	May 22	1969	540	23	1984
Gants, William H. (See Milne and Gants.) (Reissue.)						
Ganzhorn, Philip, Washington, Ill. Stirrup for riding-saddles	281,861	July 24	1925	526	24	354
Garbutt, Cameron W. (See Stephenson, M. Elmer, assignor.)						
Garceau, Gideon, Holyoke, Mass. Spool-clutch for paper-machines	274,483	Mar. 27	1622	450	23	1135
Garceau, Treffle. (See Therrien, Louis C., assignor.)						
Garcelon, Charles C., and W. A. Woods, Santa Cruz, Cal. Rotary engine	280,027	June 26	1752	492	23	2444
Garcet & Nisius P. (See Bloch, Baruch, assignor.)						
Gard, William E., Baltimore, Md. Lead-pencil case	276,800	May 1	347	93	23	1687
Gardair, Félix, and T. Gladysz, Marseilles, France. Manufacture of anhydrous alumina	282,878	Aug. 7	484	.....	24	586
Gardam, Frederick W., *et al.* (See Gardam, Joseph, assignor.)						
Gardam, Joseph, assignor of two-thirds to F. W. and W. Gardam, Brooklyn, N. Y. T-square	285,404	Sept. 25	1527	430	24	1188
Gardam, William, *et al.* (See Gardam, Joseph, assignor.)						
Gardanier, George W., Brooklyn, N. Y. Polarized relay for quadruplex telegraphs	275,185	Apr. 3	392	107	23	1294
Gardanier, George W., Brooklyn, N. Y. Duplex and multiplex telegraphy	280,028	June 26	1753	492	23	2444
Gardanier, George W., New York, N. Y. Duplex and quadruplex telegraph	283,995	Aug. 28	1845	520, 521	24	859
Garden City Fan Company, *et al.* (See Green, William W., assignor.)						
Gardiner, Charles B., Raynham, assignor of one-half to Leeds, Robinson & Co., Boston, Mass. Match-making machine	270,783	Jan. 16	1187	343	23	247
Gardiner, Charles B., Raynham, assignor of one-half to Leeds, Robinson & Co., Boston, Mass. Match-card	280,810	July 10	590	165	24	111
Gardiner, Charles O., assignor to P. P. Mast & Company, Springfield, Ohio. Grain-drill	271,445	Jan. 30	2010	580	23	403
Gardiner, William I., Seymour, Ind. Screw show-case	273,834	Mar. 13	769	208	23	974
Gardner, Adrian K. (See Maltby and Gardner.)						
Gardner, Albert M. (See Barber, D. Fletcher, assignor.)						
Gardner, Alfons G., New Orleans, La. Finger-exercising device for pianists	272,951	Feb. 27	1742	487	23	765
Gardner, Fred. W., Chicago, Ill., and M. B. Mills, Detroit, Mich. Coal hod or scuttle	271,699	Feb. 6	136	38	23	463

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gardner, Frederick A., assignor of one-half to R. Dunbar & Son, Buffalo, N. Y. Oiler for machinery	280,029	June 26	1754	493	23	2444
Gardner, Frederick N. (See Woodbridge, James E., assignor.)						
Gardner, George F., *et al.* (See Lennon, Sayres N., assignor.)						
Gardner Governor Company. (See Gardner, Robert W., assignor.)						
Gardner, John, assignor to Winchester Repeating Arms Company, New Haven, Conn. Punching and drawing press	271,831	Feb. 6	297	81	23	493
Gardner, John, assignor to Winchester Repeating Arms Company, New Haven, Conn. Holder for packing cartridges	285,992	Oct. 2	261	74	25	50
Gardner, Joseph W., Shelburne Falls, Mass. Knife	280,599	July 3	313	87	24	56
Gardner, Marshall, assignor to T. H. Ball, H. Prenzlauer, and S. Florsheim, Chicago, Ill. Machine for crimping and preparing elastic fabrics	290,030	Dec. 11	890	231	25	1038
Gardner, Perry G., Jr., J. W. Le Roy, and G. K. Tinker, North Adams, Mass. Electrical conductor	271,832	Feb. 6	299	81	23	493
Gardner, Robert W., assignor to Gardner Governor Company, Quincy, Ill. Governor	287,822	Nov. 6	40	12	25	514
Gardner, Rufus D. (See Cross, Freeman H., assignor.)						
Gardner, Schuyler S., Chicago, Ill. Rotary plow	285,809	Oct. 2	33	11, 12	25	8
Gardner, Spencer, Adderbury, England. Ratchet-drill	273,676	Mar. 6	562	149	23	930
Gardner, William, London, England. Breech-loader	281,802	July 24	1926	526	24	354
Gardner, William, London, England. Breech-loading fire-arm	285,993	Oct. 2	263	74	25	50
Gardner, William F., Baltimore, Md. Time-controlling system	287,015	Oct. 23	1563	431, 432	25	301
Gareis, Frank, Buffalo, N. Y. Bung for racking-barrels	272,039	Feb. 13	566	153	23	550
Garfield, Albert G., Chicago, Ill. Halter	286,602	Oct. 16	1033	280	25	204
Garfield, Charles L., Albany, N. Y. Extinguishing fires	283,996	Aug. 28	1849	521	24	859
Garfield, John B., Elyria, Ohio. Clothes-line hook	281,260	July 17	1156	319	24	217
Garfield Manufacturing Company. (See Stender, Charles F. G., assignor.)						
Garigues, Samuel S., *et al.* (See Eddy, Romulus A., assignor.)						
Garland, Howard P., San Quentin, Cal. Bag-sewing machine	283,095	Aug. 14	739	207	24	639
Garland, James, Philadelphia, Pa. Saw-set	292,304	July 31	2492	684	24	455
Garland, James, and J. Kenyon, Lynchburg, Va. Lubricating journal-bearings	274,755	Mar. 27	1943	540	23	1193
Garland, James, and J. Kenyon, Lynchburg, Va. Car-axle box	278,698	June 5	98	8	23	2129
Garland, Milton H., Everett, Mass. Filling cans	284,408	Sept. 4	305	85	24	955
Garnar, George W. (See Hopkins, Joseph W., assignor.)						
Garner, Allen, Mobile, Ala. Device for hacking trees in gathering turpentine	273,061	Feb. 27	1868	525	23	788
Garretson, Albert D., Buffalo, N. Y. Current-motor	283,769	Aug. 28	1577	445	24	811
Garretson, Albert D., assignor to C. H. Habberkorn, Detroit, Mich. Caster-wheel	289,696	Aug. 7	185	54	24	539
Garretson Ruffler Company. (See Garretson, Thomas B., assignor.)						
Garretson Ruffler Company. (See Grotz, Charles, assignor.)						
Garretson, Thomas B., assignor to Garretson Ruffler Company, Oskaloosa, Iowa. Ruffling attachment for sewing-machines	272,423	Feb. 20	1060	298	23	640
Garrett, Davis, assignor of one-half to A. Gordon, Pittsburg, Pa. Manufacturing head-light reflectors	292,879	Aug. 7	485	136	24	586
Garrett, Henry, assignor of one-half to W. W. Mosby, Richmond, Mo. Lifting-jack	273,507	Mar. 6	334	91	23	891
Garrett, Jackson B., Eagle Springs, assignor of one-half to M. Surratt, Waco, Tex. Car-coupling	284,624	Sept. 11	568	161	24	1006
Garrett, William, Cleveland, Ohio. Rolling-mill plant	289,524	Dec. 4	190	53, 54	25	940
Garrick, Thomas, Providence, R. I. Check hook or terret	275,817	Apr. 17	1246	343	23	1455
Garrigues, Frank L., Newark, N. J. Necktie-fastening	287,119	Oct. 23	1697	464	25	328
Garrigus, Lewis C. (See Wood, William B., assignor.)						
Garrison, David, *et al.* (See Donoghue, William, assignor.)						
Garrison, William F., assignor to Guild & Garrison, Brooklyn, N. Y. Vacuum-pump	280,600	July 3	314	88	24	56
Garrott, Joseph C., Brooklyn, N. Y. Floor-scrubbing machine	282,713	Aug. 7	297	84	24	551
Garsed, Joshua, Philadelphia, Pa. Machine for reeling yarns, &c	280,601	July 3	315	88	24	56
Garsed, Robert P., Norristown, Pa. Car-signal	276,801	May 1	348	93	23	1687
Garsed, Robert P., Norristown, Pa. Buffer	278,007	May 22	1626	499	23	1959
Garsed, Robert P., Norristown, Pa. Pumping mechanism for supplying railway-tanks	282,070	July 31	2186	600	24	404
Garsed, Robert P., Norristown, Pa. Pneumatic door-bell	282,186	July 31	2351	648	24	429
Garsed, Robert P., Norristown, Pa. Pump	285,477	Sept. 25	1612	452	24	1203
Garsed, Robert P., Norristown, Pa. Air-pump	289,641	Dec. 4	333	93	25	940
Garsed, Robert P., Norristown, Pa. Time-signal and train-indicator	290,766	Dec. 25	1778	491	25	1223
Garst, Stephen H., Greenville, Ohio. Sulky-plow	273,508	Mar. 6	335	91	23	891
Garstang, Richard, St. Louis, Mo. Rendering-tank	271,700	Feb. 6	137	38	23	464
Garstang, Richard, St. Louis, Mo. Steam-boiler	281,051	July 10	877	244	24	162
Garth, Walter G., Lodebar, Va. Wagon-jack	276,236	Apr. 24	1756	488	23	1551
Gärtner, Adolph, Jersey City, N. J., assignor to himself and C. O. Baese, New York, N. Y. Lock-hinge	280,462	July 3	163	44	24	30
Gärtner, Albert. (See Dillon and Gärtner.)						
Gartner, Charles A., Jersey City, N. J. Stereoscope	283,997	Aug. 28	1850	522	24	859
Gartner, John, Dallas, Tex. Screw-propeller	274,307	Mar. 20	1368	375	23	1024
Gartrell, Mary G., Indianola, Iowa. Top-extension step-ladder	272,540	Feb. 20	1203	336	23	665
Gartside, Joseph H., assignor of two-thirds to W. F. Aull and E. Martin, Pittsburg, Pa. Dumping-car	280,735	July 3	480	136	24	85
Garver, David L., Hart, Mich. Fire-escape	289,080	Nov. 27	1618	448	25	813
Garver, Samuel H., Decatur, Ill. Portable straw-stacker	288,224	Nov. 13	536	149	25	610
Garver, Wesley B., and E. Varian; said Varian assignor to said Garver, and said Garver assignor of one-half to J. W. Fletcher, Philadelphia, Pa. Tent-frame	288,938	Nov. 20	1437	396	25	774
Garvie, George D., New York, N. Y. Sewing-machine	271,978	Feb. 6	464	131	23	524
Garvin & Co., E. E. (See Bergh, Bror F., assignor.)						
Gaskell, Holbrook, Jr. (See Carey, Gaskell, and Hurter.)						
Gaskell, Holbrook, Jr., and F. Hurter, Widnes, county of Lancaster, England. Manufacture of bicarbonate of soda	276,020	Apr. 17	1484	409	23	1497
Gaskill, Harvey F., Lockport, N. Y. Steam pumping-engine	281,261	July 17	1156	319	24	218
Gaskill, Harvey F., Lockport, N. Y. Steam-motor engine	282,071	July 31	2187	601	24	405
Gaskill, Harvey F., Lockport, N. Y. Geared pumping-engine	289,828	Dec. 11	571	159, 160	25	993
Gaskins, Hiram. (See Spencer, George N., assignor.)						
Gass, William G., and W. A. Galashan, Philadelphia, Pa. Mechanical movement	273,509	Mar. 6	337	91	23	892
Gass, William G., and W. A. Galashan, Philadelphia, Pa. Friction-clutch	275,186	Apr. 3	394	108	23	1294
Gasser, Edward, West Troy, N. Y. Hoisting apparatus	273,635	Mar. 13	770	209	23	974
Gassett, Oscar, Boston, Mass. Electric locking mechanism for switch and signal levers	283,231	Aug. 14	905	252, 253	24	668
Gassett, Oscar, Boston, Mass. Railway signal locking apparatus	283,232	Aug. 14	907	253	24	669
Gassett, Oscar, Boston, Mass. Railway signal apparatus	289,827	Dec. 11	568	159	25	993

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gassett, Oscar, Boston, Mass., assignor to Union Switch and Signal Company, Hartford, Conn., and Pittsburg, Pa. Electro-pneumatic railway-signal	276,021	Apr. 17	1486	409	23	1497
Gassett, Oscar, and I. Fisher, Boston, Mass., assignors to Union Switch and Signal Company, Pittsburg, Pa. Electric interlocking switch and signal	276,138	Apr. 17	1632	450	23	1522
Gast, L., *et al.* (See Waugh, Johnson S., assignor.)						
Gaston, George H., and C. H. Grant, Fowlerville, Mich. Whiffletree	285,121	Sept. 18	1188	333	24	1122
Gaston, Oliver B., Elizabeth, N. J. Safety device for elevators	288,325	Nov. 13	670	184	25	632
Gatehouse, Tom E., Camberwell, county of Surrey, England. Incandescent electric lamp	284,409	Sept. 4	306	85	24	955
Gates, George S., Athol, Mass. Harness-trace	289,403	Dec. 4	37	11	25	893
Gates, George W., assignor to C. B. Judd, Grand Rapids, Mich. Carpet-sweeper	284,833	Sept. 11	827	231	24	1051
Gates, George W., assignor of two-thirds to A. B. Watson and J. A. McKee, Grand Rapids, Mich. Carpet-sweeper	285,745	Sept. 25	1948	551	24	1263
Gates, Lewis A. (See Brown and Gates.)						
Gates, Philetus W., Chicago, Ill. Stone breaking and crushing machine	279,146	June 19	683	187	23	2250
Gates, Philetus W., Chicago, Ill. Stone breaker and crusher	279,147	June 19	685	187	23	2250
Gates, Philetus W., assignor to Gates & Scoville Iron Works, Chicago, Ill. Stone-breaking machine	272,233	Feb. 13	804	224	23	592
Gates, Ryerson D., Chicago, Ill. Pulverizing-machine	270,217	Jan. 9	467	136, 137	23	102
Gates, Ryerson D., Chicago, Ill. Pulverizing-machine	286,290	Oct. 9	650	173	25	128
Gates, Ryerson D., Chicago, Ill. Pulverizing-machine	287,658	Oct. 30	2303	645	25	465
Gates, Ryerson D., Chicago, Ill. Pulverizing-machine	288,050	Nov. 6	328	92	25	563
Gates & Scoville Iron Works. (See Gates, Philetus W., assignor.)						
Gates, Thomas, assignor of one-half to H. C. Cannon and J. W. Adams, Belfast, Tenn. Car-coupling	287,759	Oct. 30	2530	682	25	490
Gates, Virgil A., and M. Levi, Charleston, W. Va. Street-pavement	285,746	Sept. 25	1949	551	24	1263
Gathmann, Louis, Chicago, Ill. Mill-disk dress	274,116	Mar. 20	1125	310	23	1042
Gathmann, Louis, Chicago, Ill. Manufacture of flour from grain	278,531	May 29	2310	.....	23	2088
Gathmann, Louis, Chicago, Ill. Machine for cleaning split grain	283,480	Aug. 21	1224	344, 345	24	733
Gathright, Albert P., assignor of one-half to W. C. Potts, Nicholson, Ga. Machine for sharpening gin-saws	290,031	Dec. 11	821	231, 232	25	1038
Gatling Gun Company. (See Accles, James G., assignor.)						
Gatton, Benjamin H., Bath, Ill. Grain-car door	289,247	Nov. 27	1812	501	25	849
Gauchot, Paul E., Paris, France, assignor to Volpp, Schwarz & Co., Friedberg, Germany. Machine for grinding drinking glasses, goblets, &c	284,834	Sept. 11	828	231, 232	24	1051
Gauer, Friedrich A., Hamburg, Germany. Horseshoe	270,784	Jan. 16	1190	343	23	247
Gaume, Charles J. B., Brooklyn, N. Y. Fishing-tackle	272,232	Feb. 13	803	224	23	591
Gaus, Henry B., Jr. (See Mark, Henry J., assignor.)						
Gaus, Henry B., Jr., St. Louis, Mo. Box-matcher machine	288,567	Nov. 13	976	269	25	686
Gause, James E., Brownsville, Tenn. Steam-whistle	286,420	Oct. 9	806	218	25	156
Gause, Thomas A., Moss Point, Miss. Umbrella-holder	278,124	May 22	1970	540	23	1084
Gause, William, Fort Wayne, Ind. Reaping-machine	274,931	Apr. 3	60	16, 17	23	1236
Gause, William, Fort Wayne, Ind. Pitman-connection for mowers, &c	286,603	Oct. 16	1034	280	25	204
Gauss, William T. (See Worthington, James K., assignor.)						
Gavard, Adonis N., and H. Millon, Paris, France. Cartridge-case for needle-guns	276,022	Apr. 17	1490	410	23	1498
Gavitt, Lorenzo D., Los Angeles, Cal. Cultivator-blade	282,880	Aug. 7	486	136	24	586
Gay, David G., Pleasant Hill, Oreg. Buckle	279,148	June 12	685	187	23	2250
Gay, Edgar A., *et al.* (See Shamp, George W., assignor.)						
Gay, Edgar A., Buffalo, N. Y. Boiler for heating buildings	273,718	Mar. 13	611	164	23	946
Gay, Frederick, assignor to Gay, Kimball & Gay, Rutland, Vt. Button	283,233	Aug. 14	909	253	24	669
Gay, Joshua G., Ottawa, Ill. Two-wheeled vehicle	272,678	Feb. 20	1378	387	23	696
Gay, Kimball & Gay. (See Gay, Frederick, assignor.)						
Gay, William A., assignor of one-half to J. Otto, Buffalo, N. Y. Boiler-flue scraper	274,756	Mar. 27	1944	541	23	1193
Gay, William A., Tonawanda, assignor of one-half to J. Otto, Buffalo, N. Y. Ozone-generator	287,760	Oct. 30	2532	682	25	490
Gay, William B. S. (See Kauffer and Serson, assignors.)						
Gaylord, Edward L., Bridgeport, Conn. Machine for planing the beveled ends of moldings	286,421	Oct. 9	807	218, 219	25	156
Gaylord, Edward L., Bridgeport, Conn. Picture-mat-cutting machine	286,422	Oct. 9	808	219	25	157
Gaylord, Edward L., Bridgeport, Conn. Machine for cutting moldings	286,423	Oct. 9	809	219, 220	25	157
Gaylord, Frederick L. (See Peck and Gaylord.)						
Gaynor & Fitzgerald *et al.* (See Gaynor, Thomas F., assignor.)						
Gaynor, Thomas F., New Haven, assignor to L. Strauss, Middleton, and Gaynor & Fitzgerald, New Haven, Conn. Corset-clasp	288,171	Nov. 6	464	130	25	583
Gaytté, Léon. (See Arnaud and Gaytté.)						
Gazaille, Henry, Manchester, N. H., assignor of one-half to F. A. Edwards, Lawrence, Mass. Pneumatic cash-transmitter	279,090	June 5	586	160	23	2223
Geach, John B. (See Hart and Geach.)						
Gear, Giles, Cleveland, Ohio. Guard for excluding air from ice-chambers	271,623	Feb. 6	48	13	23	449
Gearing, Charles, assignor of seven-eighths to S. Harper, Pittsburg, Pa., H. P. Cooke, L. M. Hosea, and C. F. Hesser, Cincinnati, Ohio. Steam-boiler or other furnace	276,576	May 1	44	13	23	1635
Geary, Bailey W., Brockton, Mass. Die for cutting shoe-uppers	279,375	June 12	963	267	23	2296
Geary, John, assignor of one-half to G. Marx, Philadelphia, Pa. Safety-pocket	274,092	Mar. 13	1084	298	23	1028
Gebby, John, Jr., Bellefontaine, Ohio. Railway-switch	281,486	July 17	1438	394	24	265
Gebhart, John F., New Albany, Ind. Weighing apparatus for carding-engines	273,980	Mar. 13	945	260	23	1004
Gebhart, John F., New Albany, Ind. Feeding mechanism for carding-engines	285,608	Sept. 25	1770	501, 502	24	1233
Gedge, Sydney, *et al.*, executors. (See Henley, William T.)						
Gedney, James W., New York, N. Y. Feed-bag	285,252	Sept. 18	1342	378	24	1149
Gehr, John C. (See Zeller, Thomas B., assignor.)						
Gehrig, Joseph K. (See Prinz, Faustin, assignor.)						
Gehring, Jacob, Ridgeville Corners, Ohio. Combined saw jointer, set, and gage	285,609	Sept. 25	1772	502	24	1233
Gehrke, John F., Plattville, Ill. Seed-planter	276,388	Apr. 24	1956	541, 542	23	1585
Gehrke, John F., Plattville, Ill. Sulky-plow	288,993	Nov. 27	1507	417	25	795
Geibel, Jacob, and E. G. Price, Montgomery, Ala. Side-bar vehicle	287,016	Oct. 23	1567	432	25	302
Geier, Joseph, Allegheny, Pa. Fanning machinery	273,719	Mar. 13	612	164	23	946
Geiger, Anton, Buffalo, N. Y. Ice-creeper	282,305	July 31	2493	685	24	455
Geiger, Charles A., Springfield, Ohio. Seeding-machine, cultivator, and harrow	270,414	Jan. 9	709	210	23	148
Geiger, Chauncey B., *et al.* (See Moore and Jackson, assignors.)						
Geiger, Conrad. (See Schellenberger, Charles G., assignor.)						
Geiger, Conrad J., *et al.* (See Moore and Jackson, assignors.)						
Geiger, Conrad J. and W. T. Moore, Ashley, Ill.; said Geiger assignor of one-third to said Moore. Fire-escape	290,567	Dec. 18	1590	418	25	1109

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Geiger, George L., Philadelphia, Pa. Presser-foot door-opener	283,770	Aug. 28	1577	446	24	811
Geiger, Jacob, Bucyrus, Ohio. Soldering eaves-troughs	271,057	Jan. 23	1518	437	23	309
Geiger, Jacob, Bucyrus, Ohio. Stand for kettles	279,238	June 12	775	214	23	2266
Geise, George A. (See Baldwin and Geise.)						
Geisen, Nicholas, Hanover Centre, Ind. Work-rest for wood-turning lathes	288,994	Nov. 27	1508	417	25	795
Geishaker, John P., Hammonton, N. J. Clothes and towel rack	275,478	Apr. 10	808	219	23	1372
Geisinger, John. (See Steinmetz, Philipp, assignor.)						
Geisinger, John. (See Steinmetz and Geisinger.)						
Geisler, Robert, assignor to Knauth & Co, Leipsic, Germany. Umbrella and parasol	269,846	Jan. 2	33	10, 11	23	9
Geisler, William H., Brooklyn, N. Y. Music-leaf turner	273,062	Feb. 27	1869	525	23	789
Geisinger, Freeman J., Philadelphia, Pa. Cornice	271,058	Jan. 23	1519	438	23	309
Geissler, William F., Comfort, Tex. Calf-weaner	278,532	May 29	2512	685	23	2088
Geist, Herman F., Cleveland, Ohio. Window-screen	290,568	Dec. 18	1520	418	25	1169
Gelineau, Charles L., Webster, Mass. Swing	270,656	Jan. 16	1027	295	23	217
Gendron, Peter, Toledo, Ohio. Expanding reamer	289,248	Nov. 27	1813	501	25	849
Genin, John B., assignor of one-half to C. N. Hair, Worcester, Mass. Hose-coupling	283,771	Aug. 28	1578	446	24	811
Gensch, Charles E., New York, N. Y. Life-preserver	282,627	Aug. 7	185	54	24	532
Gentesse, Camille, Montreal, Quebec, Canada. Wringer and mangle for clothes	281,358	July 17	1275	354	24	238
Gentle, George, London, county of Middlesex, England. Bedstead	275,187	Apr. 3	395	108	23	1294
Gentsler, Michael M., Heidlersburg, Pa. Gate	286,424	Oct. 9	811	220	25	158
George, Andrew J., Pulaski, and T. B. Turpin, Bloomfield, Iowa. Car-coupling	290,569	Dec. 18	1522	419	25	1170
George, Frank. (See Stark and George.)						
George, John S., Bridgeport, Conn. Spring-scale	273,720	Mar. 13	613	165	23	946
George, Nathan M., Danbury, Conn. Dust-guard for car-axle boxes	285,904	Oct. 2	266	74	25	50
George, Samson W., Chester, N. J. Pump-piston	274,308	Mar. 20	1368	375	23	1085
Georges, John J., Washington, D. C. Corn and bunion shield	281,487	July 17	1439	394	24	265
Gerard, Alonzo, Austin, Tex. Copy-holder	281,759	July 24	1795	490	24	331
Gerard, George L., New Haven, Conn. Truss-pad	274,932	Apr. 3	63	17	23	1236
Gerber, Charles, York, Pa. Combined shirt-collar and necktie	276,023	Apr. 17	1491	410	23	1498
Gerber, Joseph. (See Williams, Henry B., assignor.)						
Gerdenier, Charles A. (See Dean and Whiting, assignors.)						
Gerdom, Gregory, West Troy, N. Y. Drying or moisture-extracting apparatus	273,721	Mar. 13	614	165	23	947
Gere, Theodore D., Owego, N. Y. Fertilizer-distributer	271,833	Feb. 6	300	82	23	494
Gerhard, William. (See Howell, William G., assignor.)						
Gerhauser, George M., Baltimore, Md. Hose-coupling	280,169	June 26	1905	536	23	2472
Gerken, Franz, assignor to himself and G. Goliasch & Co., Berlin, Germany. Friction-match	285,610	Sept. 25	1772	502	24	1233
Gerken, William A. (See Saltsman, George, assignor.)						
Gerlach, Rudolph P., Cleveland, Ohio. Boiler-flue cleaner	278,699	June 5	30	8	23	2130
German, Eliza, Fannin County, Tex. Churn	284,625	Sept. 11	569	161	24	1007
Germeyer, William S., assignor of one-half to T. Cornman, Carlisle, Pa. Automatic lubricator	280,736	July 3	481	136	24	85
Gerot, Emile, Buffalo, N. Y. Fire-escape	281,488	July 17	1440	394	24	265
Gerrard, John. (See Bullock, Lovell D., assignor.)						
Gerritson, Charles S., Waltham, Mass. Car-brake	270,300	Jan. 9	559	165	23	119
Gerry, Allston, trustee. (See Rapp, Almire H., assignor.)						
Gerry, James H., Somerville, Mass. Gravity-escapement for clocks	280,463	July 3	164	44	24	30
Gerson, Isidor L., *et al.* (See Woodruff, Theodore T., assignor.)						
Gerstendorfer, Albert, *et al.* (See Toussaint, Christian, assignor.)						
Gerstendorfer, Max, *et al.* (See Toussaint, Christian, assignor.)						
Gerstner, Jacob, Butler, Pa. Harrow	280,602	July 3	318	89	24	57
Gesking, Frederick, Grand Rapids, Mich. Folding table	285,995	Oct. 2	267	75	25	50
Gesner, James H., Montreal, Quebec, Canada. Machine for stretching hat-tips	277,703	May 15	1460	394	23	1889
Gessner, Ernst, Aue, Saxony, Germany. Cloth-napping machine	271,834	Feb. 6	302	82, 83	23	494
Gessner, Friedrich, Magdeburg, Prussia, Germany. Accordion	277,264	May 8	938	251	23	1793
Getchell, George W., assignor of one-half to M. Hardy, Brewer, Me. Boiler feed-regulator	274,186	Mar. 20	1207	332	23	1057
Getchel, Seth S., Woonsocket, R. I., assignor to Hopedale Machine Company, Hopedale, Mass. Mechanism for making sheet-metal cans	290,325	Dec. 18	1186	332	25	1111
Getleson, Bernard, San Francisco, Cal. Boot	289,525	Dec. 4	193	54	25	920
Getty, William B., and D. Bricker, Hicksville, Ohio. Stove-pipe drum	274,117	Mar. 20	1126	310	23	1042
Getz, Franklin, Tonawanda, N. Y. Nut-lock	275,188	Apr. 3	395	109	23	1295
Geyer, George, Brooklyn, N. Y. Cabbage-cutting machine	272,132	Feb. 13	687	187	23	570
Ghaler, Peter C., assignor of one-half to J. W. Shetter, York, Pa. Wax compound	274,484	Mar. 27	1623	.....	23	1135
Gheen, John S., assignor to M. J. Wine, Washington, D. C. File-case	290,570	Dec. 18	1522	419	25	1170
Ghio, Enoch G., *et al.* (See Lewis, George W., assignor.)						
Gholson, William C., La Grange, Ga. Fence	274,118	Mar. 20	1127	311	23	1042
Giant Air Injector Manufacturing Company. (See Bonta, James W., assignor.)						
Giant Powder Company (See Nobel, Alfred, assignor.) (Reissue.)						
Gibb, Walter, Pittsburg, assignor to himself and A. C. Milliken, Millvale Borough, Pa. Rotary steam-engine	284,125	Aug. 28	2031	565	24	890
Gibbins, James, Springfield, Mass. Friction-clutch	284,731	Sept. 11	706	198	24	1030
Gibbins, James, Springfield, Mass. Clutch	289,249	Nov. 27	1814	501	25	850
Gibbon, John, U. S. Army. Railway-switch	278,533	May 29	2512	685	23	2088
Gibbon, Thomas H., assignor of one-half to D. Farlin, Albany, N. Y. Railway-rail joint	288,704	Nov. 20	1154	317	25	722
Gibbons, David, assignor of one-half to H. H. Mills, Joppa, Ind. Gate	270,565	Jan. 9	907	262	23	186
Gibbons, John, assignor to Union Hardware Manufacturing Company, West Troy, N. Y. Fastening device for halters	278,931	June 5	391	107	23	2190
Gibbons, John, assignor to Union Hardware Manufacturing Company, West Troy, N. Y. Soldering-iron	278,932	June 5	392	107	23	2190
Gibbons, John, assignor to Union Hardware Manufacturing Company, West Troy, N. Y. Strap-fastener for halters	279,561	June 19	1191	330	23	2340
Gibbons, John, assignor to Union Hardware Manufacturing Company, West Troy, N. Y. Snap-hook	276,965	May 1	564	147	23	1723
Gibbons, John, assignor to Union Hardware Manufacturing Company, West Troy, N. Y. Snap-hook	283,337	Aug. 14	1040	292	24	694
Gibbons, John, assignor to Union Hardware Manufacturing Company, West Troy, N. Y. Rope-end fastener	286,807	Oct. 16	1291	349	25	249
Gibbons, John, assignor to Union Hardware Manufacturing Company, West Troy, N. Y. Halter-loop fastening	286,808	Oct. 16	1291	350	25	249
Gibbons, Michael J., Dayton, Ohio. Straight-way valve	273,271	Mar. 6	32	10	23	840
Gibbons, Robinson, Alameda, Cal. Attachment for transits and other surveying-instruments	275,034	Apr. 3	204	55	23	1260
Gibbs, Addison C. (See Forstner, Benjamin, assignor.)						
Gibbs, Addison C. (See Hutchinson, Thomas O., assignor.)						
Gibbs, Charles E., Orange, Mass. Shaft	285,810	Oct. 2	36	12	25	8
Gibbs, Cyrenus A., Schenectady, N. Y. Bag-holder	284,835	Sept. 11	832	233	24	1052
Gibbs, John C., Brooklyn, N. Y. Lighter for loading vessels	275,479	Apr. 10	809	219	23	1372

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Gibbs, Mahlon A. (See Murray and Gibbs.)						
Gibbs, Mason, Homer, Mich. Seed-sower	275,633	Apr. 10	1004	271	23	1405
Gibbs, Nathan A., Norwich, Conn. Check-book	281,682	July 24	1687	459	24	312
Gibbs, Richard, assignor of one-half to S. O'Neil, Coal Valley, Pa. Post-drawing device	290,637	Dec. 18	1605	441	25	1183
Gibbs, Silas. (See Hanlon, Leadley, and Gibbs.)						
Gibbs, William, Canton, Ohio. Bracket for curtain-fixtures	271,446	Jan. 30	2014	581	23	404
Gibbs, William H., and G. W. Snook, Popewell, N. J. Combined railway tie and chair	274,309	Mar. 20	1370	375	23	1085
Gibbs, William W., New York, N. Y., and J. Y. McClintock, Malden, Mass., assignors to United Gas Improvement Company of Pennsylvania. Process of and apparatus for manufacturing water-gas	283,234	Aug. 14	910	254	24	669
Gibler, Mary J., Beloit, Wis. Cleaning compound	275,189	Apr. 3	396	.....	23	1295
Gibney, James N., assignor of one-half to D. S., W. H., and R. U. Bush, Vicksburg, Mich. Window-screen	289,526	Dec. 4	193	54	25	920
Gibson, Alexander C., Chicago, Ill. Bosom-stretcher and ironing-board	276,802	May 1	349	93	23	1687
Gibson, George S., *et al.* (See Bush, Arthur W., assignor.)						
Gibson, James E., assignor of two-thirds to J. C. Purnell and A. B. Waddington, Winona, Miss. Nut-lock	290,638	Dec. 18	1606	441	25	1183
Gibson, John, Jr., Mottram, county of Chester, and J. Platt, Manchester, county of Lancaster, England. Apparatus for soaping and dyeing textile fabrics	278,125	May 22	1970	540 541	23	1984
Gibson, Joseph H., Lisle, and J. G. Fish, Binghamton, N. Y. Insecticide compound	286,195	Oct. 9	510	.....	25	105
Gibson, Margaret S., Philadelphia, Pa. Apparatus for toasting bread and broiling meats, &c.	281,683	July 24	1687	460	24	312
Gibson, Murray, Philadelphia, Pa. Composition for the ornamentation of walls and ceilings	290,226	Dec. 18	1060	.....	25	1090
Gibson, Murray, Philadelphia, Pa. Composition for the ornamentation of walls and ceilings	290,227	Dec. 18	1061	.....	25	1090
Gibson, Murray, Philadelphia, Pa. Composition for the ornamentation of walls and ceilings	290,228	Dec. 18	1061	.....	25	1090
Gibson, Robert, *et al.* (See Hunter, Alpheus S., assignor.) (Reissue.)						
Gibson, T. M., *et al.* (See Williams, Paul W., assignor.)						
Gibson, William, *et al.* (See Vincent, John, Jr., assignor.)						
Gideon, Francis M., Washington, D. C. Vehicle-wheel	278,534	May 29	2513	686	23	2088
Giel, Franz S., Brooklyn, assignor of one-half to J. Lederle, Tompkinsville, N. Y. Electric arc lamp	279,934	June 26	1636	459	23	2424
Giel, Franz S., Brooklyn, assignor of one-half to J. Lederle, Tompkinsville, N. Y. Automatic regulator for dynamo-electric machines	282,187	July 31	2352	648	24	430
Gier, John, Adair County, Mo. Fence	276,679	May 1	187	48	23	1656
Giers, John. Middlesbrough-on-Tees, county of York, England. Manufacture of steel	283,735	Aug. 21	1524	430	24	790
Giersberg, Gustav, and R. Wirth, New York, N. Y. Ornamenting surfaces of walls, ceilings, paper-hangings, &c	283,595	Aug. 21	1358	379	24	758
Giffard, George W., Odin, Kans. Combined corn-planter and cultivator	285,889	Oct. 2	139	39, 40	25	27
Gifford, Alenza T., assignor to A. B. Searles, Providence, R. I. Magazine electric lamp	271,059	Jan. 23	1520	438 439	23	310
Gifford, Charles. (See Webber, Elbridge, assignor.)						
Gifford, Ezra N., Cincinnati, Ohio. Car-coupling	287,017	Oct. 23	1568	432 433	25	302
Gifford, George S., assignor to G. H. Curtis, Syracuse, N. Y. Towel-holder	280,464	July 3	165	45	24	30
Gifford, Harry E., New Bedford, Mass. Funnel	279,739	June 19	1395	389	23	2376
Gifford, John Z., New York, N. Y. Hoop-flaring machine	287,659	Oct. 30	2395	645	25	465
Gignoux, Charles C. (See Seybold, Frederick J., assignor.)						
Gilain, Achille, Embresin, Belgium. Evaporating or drying apparatus	277,704	May 15	1460	394	23	1899
Gilberds, James, Jamestown, N. Y. Fruit-jar	271,328	Jan. 30	1858	539	23	375
Gilberds, James, Jamestown, N. Y. Fruit-jar	282,188	July 31	2354	649	24	430
Gilbert & Barker Manufacturing Company. (See Hovey, Charles F., assignor.)						
Gilbert, Charles A., Glenn's Falls, N. Y. Making shirts	276,532	Apr. 24	2132	593	23	1615
Gilbert, Charles A., Glenn's Falls, N. Y. Neckband shaper for bosom-boards	277,705	May 15	1462	394	23	1889
Gilbert Clock Company, William L. (See Woodruff, Owen, and Beecher, assignors.)						
Gilbert & Co., H. S. (See Slaughenhaup, John N., assignor.)						
Gilbert, Donn A. (See Bennett, Eli J., assignor.)						
Gilbert, Edward H., Ware, and T. H. Greenwood, Hardwick, Mass. Feed-winding regulator for spinning-mules	271,447	Jan. 30	2014	581	23	404
Gilbert, Frank, Cleveland, Ohio, assignor of one-half to C. W. Tritt and J. McNeal, Union City, Ind. Axle for two-wheeled vehicles	284,626	Sept. 11	570	161	24	1007
Gilbert, Frederic, assignor to Societé Anonyme des Appareils Automatiques pour Accrocher et Décrocher les Wagons de Chemins de Fer, Paris, France. Car-coupling	285,253	Sept. 18	1342	378	24	1149
Gilbert, George, Philadelphia, Pa. Cutting-machine	271,835	Feb. 6	304	83	23	494
Gilbert, George A. (See Gilbert, Henry J., assignor.)						
Gilbert, George A. (See Gilbert, Henry J. and G. A.)						
Gilbert, George S., assignor of one-third to T. M. Broderick, Baltimore, Md. Attachment for boiler-furnaces	283,338	Aug. 14	1041	292	24	694
Gilbert, Henry J. and G. A., Racine, Wis. Sieve for roller-mills	275,190	Apr. 3	396	109	23	1295
Gilbert, Henry J., assignor of one-half to G. A. Gilbert, Racine, Wis. Roller-mill	276,237	Apr. 24	1757	489	23	1551
Gilbert, Henry J., assignor of one-half to G. A. Gilbert, Racine, Wis. Roller-mill	276,238	Apr. 24	1757	489	23	1552
Gilbert, Henry J., assignor to Stout, Mills & Temple, Dayton, Ohio. Roller-mill	280,170	June 26	1906	537	23	2472
Gilbert, James L., Hoboken, Ala. Plow	290,032	Dec. 11	892	232	25	1038
Gilbert, John T., Mendota, Ill. Wagon-jack	286,291	Oct. 9	653	173	25	128
Gilbert, John W. (See Johnston, Browne, Starr, and Gilbert.)						
Gilbert, John W., and E. T. Starr, assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Galvanic battery	281,262	July 17	1157	320	24	218
Gilbert, John W., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental-engine hand-piece	287,761	Oct. 30	2533	682	25	491
Gilbert, Leander G. (See Ortman and Gilbert.)						
Gilbert, Montrose H., Smithville, Ohio. Stock-car	274,585	Mar. 27	1748	485	23	1157
Gilbert, Oliver F., Jamestown, Dak. Ter. Traction-wheel	275,035	Apr. 3	205	55	23	1260
Gilbert, Thomas, London, England. Sight for small fire-arms	289,081	Nov. 27	1618	448	25	814
Gilbert, William F., Derby, assignor of one-half to E. L. Bryant, Ansonia, Conn. Fastening for corset-clasps	287,660	Oct. 30	2395	646	25	465
Gilberts, Catharina, San Francisco, Cal. Mincing-knife	279,643	June 19	1264	357	23	2357
Gildav, William A., and T. M. Heckman, Philadelphia, Pa. Grip or clutch to be used on endless-cable ways	289,527	Dec. 4	194	55	25	920
Gildemeyer, Charles A., Philadelphia, Pa. Grip-staff or gripper	274,586	Mar. 27	1751	485	23	1157
Giles, Charles K., Chicago, Ill. Anti-magnetic shield for watches	289,642	Dec. 4	335	94	25	946
Giles, Isaac W., South Abington, and T. F. Giles, Abington, Mass. Wrench	277,265	May 8	938	252	23	1794
Giles, J. Edwin, Hazleton, Pa. Dynamo-electric machine	281,052	July 10	878	244 245	24	162
Giles, J. Edwin, Hazleton, Pa. Armature for dynamo-electric machines	288,051	Nov. 6	330	92	25	563
Giles, J. Edwin, Hazleton, Pa. Underground conduit for electric conductors	288,790	Nov. 20	1265	346	25	742
Giles, J. Edwin, Hazleton, Pa. Regulator for dynamo-electric machines	290,412	Dec. 18	1293	363	25	1131

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Giles, John E., Hazleton, Pa. Dynamo or magneto electric machine	287,661	Oct. 30	2396	646	25	466
Giles, Thomas F. (See Giles, Isaac W. and T. F.)						
Gilfillan, Thomas. (See Bonett, Gilfillan, and Flanders.)						
Gilgour, John, Columbus, Ind. Nut-lock	277,706	May 15	1463	394	23	1889
Gill, Asher B., Philadelphia, Pa. Station-indicator	281,684	July 24	1689	460	24	312
Gill, Henry C., Madison, Ohio. Crown-terret for harness	279,149	June 12	686	188	23	2250
Gill, Joseph P., New York, N. Y. Process of and apparatus for manufacturing heating-vapor	275,634	Apr. 10	1005	272	23	1405
Gill, Joseph P., New York, N. Y. Process of and apparatus for manufacturing lighting or heating vapors	275,635	Apr. 10	1008	272	23	1406
Gill, Joseph P., New York, N. Y. Process of and apparatus for manufacturing gases and vapors for heating and illuminating purposes	275,636	Apr. 10	1010	272, 273	23	1406
Gill, Joseph P., New York, N. Y. Process of and apparatus for manufacturing gas	275,761	Apr. 10	1169	320, 321	23	1433
Gill, Joseph P., New York, N. Y. Reducing ores	284,126	Aug. 28	2032	.....	24	890
Gill, Joseph P., New York, N. Y. Apparatus for the manufacture and application of gases and vapors	283,998	Aug. 28	1852	522, 523, 524	24	860
Gill, Joseph P., New York, N. Y. Process of and apparatus for the treatment of iron and steel	283,999	Aug. 28	1860	524	24	860
Gill, Joseph P., New York, N. Y. Process of and apparatus for producing non-corrodible surfaces on iron and steel	284,000	Aug. 28	1864	525	24	861
Gill, Joseph P., New York, N. Y. Surface of iron and steel	284,001	Aug. 28	1866	.....	24	861
Gill, Joseph P., New York, N. Y. Process of and apparatus for manufacturing and delivering gases and vapors	284,002	Aug. 28	1867	525, 526	24	861
Gill, Joshua S. (See Hedges and Gill.)						
Gill, Thomas, assignor to himself and H. A. Hood, Waltham, Mass. Fastening clicks to watch-plates	275,762	Apr. 10	1172	321	23	1434
Gill, Thomas J. (See Hedges and Gill.)						
Gilleland, James G., Palmyra, Mich. Animal-trap	288,225	Nov. 13	537	149	25	611
Gilleland, James G., and J. Ziegele, Palmyra, Mich. Mole-trap	280,811	July 10	591	165	24	111
Gilleland, John A., *et al.* (See Ingram, Milo E., assignor.)						
Gillen, Patrick H. (See Riley, William, assignor.)						
Gillender, Augustus T., New York, N. Y. Wall match-safe	274,310	Mar. 20	1371	376	23	1085
Gillespie, Alfred J., Atlantic, Iowa. Stringing pianos	275,818	Apr. 17	1247	343	23	1455
Gillespie, James, West Point, Ohio. Odometer	290,767	Dec. 25	1780	492	25	1222
Gillespie, James E., Warwick, N. Y. Hose-reel	275,637	Apr. 10	1014	274	23	1407
Gillespie, James E., assignor to Fabric Fire Hose Company, Warwick, N. Y. Manufacture of rubber-lined hose	275,638	Apr. 10	1015	.....	23	1407
Gillet, Charles F., Springfield, Ill. Rubber overshoe	280,603	July 3	319	89	24	57
Gillet, Étienne, *et al.*, trustees. (See Marchand, Charles, assignor.)						
Gillett, Eugene E., Western Union, Wis. Sulky-harrow	274,311	Mar. 20	1371	376	23	1085
Gillett, William A., Union City, Pa. Scaffold	279,740	June 19	1396	390	23	2376
Gillette, William H., Hartford, Conn. Time-stamp	289,404	Dec. 4	38	11	25	893
Gilliard, John. (See Alexander, Alexander G., assignor.)						
Gillig, John, Virginia City, Nev. Lantern	273,272	Mar. 6	33	10	23	840
Gilliland, Ezra T., Indianapolis, Ind. Armature for magneto-electric machines	270,945	Jan. 23	1385	400	23	288
Gilliland, Ezra T., Indianapolis, Ind. Automatic shunt for magneto-electric generators	272,234	Feb. 13	806	224	23	592
Gilliland, James F., Indianapolis, Ind. Gear-wheel	284,290	Sept. 4	104	46	24	932
Gilliland, James F., Indianapolis, assignor to D. E. Stone, A. B. Meyer, Marion County, and J. H. Zeller, Harmony, Ind. Cylinder for rotary armatures	276,024	Apr. 17	1491	410	23	1498
Gillis, William K. (See Merritt, Henry W., assignor.)						
Gillmore, Freeman C., Chicago, Ill. Car-seal	281,863	July 24	1922	527	24	355
Gilman, Charles C., Eldora, Iowa. Housing and insulation of electrical wires underground	288,629	Nov. 20	1060	291	25	707
Gilman, Charles C., Eldora, Iowa, assignor, by mesne assignments, to Gilman Porous Terra Cotta Company, New York, N. Y. Fire-proof composition. (Reissue)	10,419	Dec. 11	1008	.....	25	1073
Gilman, Charles C., Eldora, Iowa, assignor, by mesne assignments, to Gilman Porous Terra Cotta Company, New York, N. Y. Fire-proof composition. (Reissue)	10,420	Dec. 11	1008	.....	25	1073
Gilman, Edwin H., Montpelier, Vt. Driving-bit	281,991	July 24	2060	571	24	381
Gilman Porous Terra Cotta Company. (See Gilman, Charles C., assignor.) (Reissue.)						
Gilman, William W., San Francisco, Cal. Paper-file holder	283,596	Aug. 21	1359	379	24	758
Gilmartin, Arthur, *et al.* (See O'Malley, Thomas M., assignor.)						
Gilmer, Dan H., Findlay, Ohio. Dental engine	278,933	June 5	393	108	23	2100
Gilmore, Isaac C. H., Rosendale, Mo. Coffee-pot	270,415	Jan. 9	710	210	23	148
Gilmore, Robert J., Providence, assignor to P. L. Belden, North Providence, R. I. Button-fastener	281,992	July 24	2060	571	24	381
Gilmore, Robert J., Providence, assignor to P. L. Belden, North Providence, R. I. Button.	283,235	Aug. 14	912	254	24	669
Gilmore, Thomas, *et al.* (See Carson, Robert J., assignor.)						
Gilpin, Joseph F., assignor to Ansonia Brass and Copper Company, Ansonia, Conn. Manufacture of insulated electric conductors	281,864	July 24	1929	527	24	355
Gilroy, Thomas F., New York, N. Y. Glass beveling machine	271,636	Feb. 6	306	83	23	494
Gilson, John. (See Burch and Gilson.)						
Gilson, Lorenzo G., Fort Scott, Kans. One-hand plane	288,226	Nov. 13	538	149	25	611
Ginger, James S., St. Louis, Mo. Harness-loop	279,741	June 19	1396	390	23	2376
Gingras, Timothy, Buffalo, N. Y. Mechanism for manufacturing washers	270,301	Jan. 9	560	165	23	119
Gingras, Timothy, Buffalo, N. Y. Leather washer	281,760	July 24	1796	490	24	331
Gingras, Timothy, Buffalo, N. Y. Fly-net	285,026	Sept. 18	1078	301	24	1103
Ginn, Wesley C., Syracuse, N. Y. Cake-beater	290,033	Dec. 11	823	232	25	1038
Ginna & Co. (See Hipperling, William, assignor.)						
Ginther, Frederick C., Bedford, Iowa. Refrigerator	275,639	Apr. 10	1016	274	23	1407
Gintz, Henry, Akron, Ohio. Bung-hole protector	270,050	Jan. 2	261	75	23	53
Gipe, John A., Detroit, Mich. Spring bed-bottom	273,063	Feb. 27	1871	525	23	789
Girard, Jean B., St. Aimé, Quebec, Canada. Bicycle	281,489	July 17	1441	395	24	266
Girardey, Camille E. (See Spear, Thomas J., assignor.)						
Girling, William, Minneapolis township, Hennepin county, Minn. Mechanism for attaching knitted fabrics to woven fabrics, &c	288,326	Nov. 13	670	185	25	632
Girrens, Nicholas, Buffalo, N. Y. Saw	288,791	Nov. 20	1966	346	25	742
Gish, Charles L. (See O'Connor and White, assignors.)						
Gissinger, Samuel, Pittsburg, Pa. Horse-collar	276,577	May 1	46	13	23	1635
Gissinger, Samuel, assignor of one-half to J. R. Large, Pittsburg, Pa. Nut-lock	285,122	Sept. 18	1189	333	24	1122
Githens, George M., Brooklyn, N. Y. Draft-regulator	270,302	Jan. 9	561	165	23	119
Githens, George M., Brooklyn, N. Y. Steam-damper regulator	285,478	Sept. 25	1613	453	24	1203
Glackin, Edward J. (See Glackin, James J., Jr., and E. J.)						
Glackin, James J., Jr., and E. J., Chicago, Ill. Can-soldering machine	278,329	May 29	2258	618	23	2042

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gladney, Shadrack. (See Berry and Gladney.)						
Gladwin, Porter A., Boston, Mass. Vise	287,271	Oct. 23	1887	516	25	361
Gladysz, Thaddé. (See Gardair and Gladysz.)						
Glaesaner, Arthur F., Meriden, Conn. Hanging lamp	272,235	Feb. 13	807	224	23	592
Glaser, Friedrich C. (See Liebreich and Michaelis, assignors.)						
Glass, Henry, Golconda, Ill. Process of and apparatus for aging liquors	287,272	Oct. 23	1888	517	25	361
Glass, Seymour, and G. H. Noble, Clintonville, Wis. Window-screen	284,410	Sept. 4	308	86	24	955
Glassie, Daniel W. (See Fowler, T. Walter, assignor.)						
Glasson, Frederick, New York, N. Y. Animal-trap	290,034	Dec. 11	824	232	25	1039
Glattsteine, Morris, New York, N. Y. Nursing-bottle	279,935	June 26	1637	459	23	2424
Glazier, George W., Salem, assignor of one-half to A. G. Potter, Lynn, Mass. Machine for pasting paper boxes, &c	280,604	July 3	319	89, 90	24	57
Glazier, George W., Salem, assignor of one-half to J. B. Rollins, Lynn, Mass. Box-pasting machine	288,172	Nov. 6	466	130	25	588
Glazier, Ira W., Millbury, Mass., assignor of one-half to C. O. Thompson, New York, N. Y. Tension device for sewing-machines	270,188	Jan. 2	424	123	23	86
Gleason, Albert H., Wabash, Ind. Rotary engine	290,035	Dec. 11	825	233	25	1039
Gleason, Charles E., Willimantic, Conn. Flier for spinning-machines	288,052	Nov. 6	330	93	25	564
Gleason, John M., assignor of one-half to J. H. McDermott, Lowell, Mass. Fan attachment for sewing-machines	285,479	Sept. 25	1614	453	24	1203
Gleason, Lorenzo D., and R. A. Holt, Lebanon, Mo. Animal-shears	267,018	Oct. 23	1570	433	25	303
Gleason, Orville T., Temple, Me. Velocipede	289,907	Dec. 11	672	187	25	1011
Gleason, Patrick, Wausau, Wis. Vibrating propeller	285,480	Sept. 25	1615	453	24	1204
Gleason, Samuel J., Peoria, Ill. Billiard-cue	278,934	June 5	394	108	23	2190
Gleason, Sanford B., Baltimore, Md. Wire mattress	274,312	Mar. 20	1372	376	23	1085
Gleason, William, Rochester, N. Y. Tool-stock for iron-planers	280,812	July 10	592	165	24	111
Glen Cove Manufacturing Company. (See Duryea and Grimm, assignors.)						
Glendale Elastic Fabric Company. (See Green and Smith, assignors.)						
Glendillen, Elijah, Owen Sound, Ontario, Canada. Horse hay-rake	289,082	Nov. 27	1619	449	25	814
Glenn, Charles F., East Brady, Pa. Shirt	275,191	Apr. 3	397	109	23	1295
Glenn, David G., *et al.* (See Fry, John, assignor.)						
Glenn, David H. (See Herring, Elijah R., assignor.)						
Glenn, George K., assignor of one-half to Hall & Bidwell, Woodland, Cal. Self-regulating windmill	275,036	Apr. 3	205	55	23	1261
Glennon, William H., Quincy, Mass. Crane or derrick	272,236	Feb. 13	806	225	23	592
Glidden, Charles W., Lynn, assignor to McKay and Bigelow Heeling Machine Association, Boston, Mass., J. W. Brooks, trustee. Last	278,426	May 29	2382	650	23	2065
Glidden, Darwin H., Brooklyn, Wis. Harrow-sulky	289,405	Dec. 4	39	12	25	894
Glidden, Greenlief, assignor of one-half to H. S. Black, Buchanan, Mich. Combined hand plow, planter, and cultivator	273,229	Feb. 27	2083	585	23	826
Glines, Humphrey M., East Boston, Mass. Car-brake	289,714	Aug. 7	298	84	24	551
Glines, Sylvester. (See Jones and Glines.)						
Glisson, Abram, Rutherford, Tenn. Fertilizer-distributer	278,196	May 22	1971	541	23	1985
Globotschnig, Felix, Bologna, Italy, assignor of one-half to M. Muller, Jr., Vienna, Austria. Treating the plant genista to obtain fibers	284,291	Sept. 4	164	.....	24	932
Gloekler, Bernard. (See Armstrong, John, assignor.)						
Glousier, Thomas J., Meigs, Ga. Planing and sawing machine	287,019	Oct. 23	1571	433	25	303
Glover, Benjamin P. (See Parker, Charles B. and O. B., assignors.)						
Glover, Carlos W., Boston, Mass. Machine for felting and sizing hat-bodies, &c	279,376	June 12	964	268	23	2296
Glover, Carlos W., Boston, Mass. Roller for felting hat-bodies	282,881	Aug. 7	486	136 137	24	586
Glover, Carlos W., Boston, Mass. Roller for felting hat-bodies	284,411	Sept. 4	308	86	24	955
Glover, Eli S., Battle Creek, Mich. Combined pocket knife and rule	273,981	Mar. 13	946	260	23	1004
Glover, Elmer E., Terre Haute, Ind. Brake	282,452	July 31	2688	737	24	489
Glover, Frank W. T., assignor to Western Leather Manufacturing Company, Chicago, Ill. Leather box	288,227	Nov. 13	539	149	25	611
Glover, Horatio N., *et al.*, trustees. (See Chase, Edward M., assignor.)						
Gmehlin, Paul, New York, N. Y. Upright-piano case	286,425	Oct. 9	811	220	25	158
Gnadinger, John, Jr., Paris, Ky. Try-box and indicator for spirit-cisterns	270,416	Jan. 9	711	210	23	148
Gobeille, Joseph L., assignor of one-half to W. M. Gobielle, Cleveland, Ohio. Jointer for dressing angles for joints	280,813	July 10	593	166	24	111
Gobeille, William M. (See Gobeille, Joseph L., assignor.)						
Gobin, Leon A., New York, N. Y. Machine for grading and cleaning coffee	287,893	Nov. 6	42	12	25	515
Goble, Hiram F., Kalamazoo, Mich. Fire-escape	284,627	Sept. 11	571	161	24	1007
Goddard, Calvin L., New York, N. Y. Picker or opener for fibrous materials	288,327	Nov. 13	673	185	25	632
Goddard, Calvin, assignor to Edison Electric Light Company, New York, N. Y. Junction for electrical conductors	287,532	Oct. 30	2211	600 601	25	430
Goddard, Calvin, assignor to Edison Electric Light Company, New York, N. Y. Safety-catch for electric circuits	287,533	Oct. 30	2213	601	25	431
Goddard, Charles V., Brooklyn, N. Y. Button	283,772	Aug. 28	1580	446	24	812
Goddard, Sextus P., Worcester, Mass. Reducing corn in the stalk and separating the kernels	290,571	Dec. 18	1524	419	25	1170
Goddard, Silas W. (See Layng, George, assignor.)						
Goddard, William, Chester, Ill. Elevator	275,037	Apr. 3	206	56	23	1261
Goddu, Louis, Winchester, Mass. Button	289,829	Dec. 11	572	160	25	993
Goddu, Louis, Winchester, Mass. Button	289,830	Dec. 11	573	160	25	993
Goddu, Louis, Winchester, Mass., assignor to McKay Metallic Fastening Association. Hand tacking or nailing apparatus	287,375	Oct. 23	2016	549	25	384
Goddu, Louis, Winchester, Mass., assignor to G. McKay, Newport, R. I., and J. W. Brooks, Cambridge, Mass., trustees. Nailing-machine	288,421	Nov. 13	803	218	25	656
Goddu, Louis, Winchester, Mass., assignor to G. McKay, Newport, R. I., and J. W. Brooks, Cambridge, Mass., trustees. Nailing-machine	288,422	Nov. 13	805	218	25	656
Goddu, Louis, Winchester, Mass., assignor to G. McKay, Newport, R. I., and J. W. Brooks, Cambridge, Mass., trustees. Nailing-machine	288,423	Nov. 13	806	218	25	656
Goddu, Louis, Winchester, Mass., assignor to G. McKay, Newport, R. I., and J. W. Brooks, Cambridge, Mass., trustees. Nailing-machine	288,424	Nov. 13	807	219	25	656
Goddu, Louis, Winchester, Mass., assignor to G. McKay, Newport, R. I., and J. W. Brooks, Cambridge, Mass., trustees. Nailing-machine	288,425	Nov. 13	809	219	25	657
Godfrey, Fred N., Oldtown, Me. Skid	271,837	Feb. 6	307	84	23	495
Godfrey, Henry C., Boston, Mass. Dust-pan	277,266	May 8	939	252	23	1794
Godfrey, James, Pittsburg, Pa. Fire-escape	273,722	Mar. 13	614	165	23	947
Godley, George F., Philadelphia, Pa. Car-axle box	288,705	Nov. 20	1155	317	25	793
Godley, George F., and H. B. Whittaker, assignors of one-third to G. W. Weart, Philadelphia, Pa. Spring-motor	278,427	May 29	2383	650 651	23	2065
Godley, William, and J. Boldon, Pittsburg, Pa. Die for forming twist-drills	285,996	Oct. 2	267	75	25	51

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Godshalk, Edward H., Philadelphia, Pa. Fur-cutting machine	275,640	Apr. 10	1017	274	23	1408
Godshalk, Edward H., Philadelphia, Pa. Former for dress-trimmings, &c	287,662	Oct. 30	2398	646	25	466
Godwin, James T., assignor of one-half to A. L. Woodworth, Norfolk, Va. Dumping-car	287,663	Oct. 30	2398	646	25	466
Goebel, Christian H., Philadelphia, Pa. Bedstead-fastening	270,051	Jan. 2	262	75	23	54
Goebel, Christian H., Philadelphia, Pa., assignor to American Sectional Electric Underground Company, of New Jersey. Conduit for electric wires	290,413	Dec. 18	1295	363	25	1131
Goebel, Christian H., Philadelphia, Pa., assignor to American Sectional Electric Underground Company, of New Jersey. Underground conduit for electric wires	290,414	Dec. 18	1296	363	25	1131
Goebel, Christian H., Philadelphia, Pa., assignor to American Sectional Electric Underground Company, of New Jersey. Underground conduit for electric wires	290,415	Dec. 18	1297	363	25	1131
Goebel, Christian H., Philadelphia, Pa., assignor to American Sectional Electric Underground Company, of New Jersey. Underground conduit for electric wires	290,416	Dec. 18	1298	364	25	1132
Goeden, Peter, Chicago, Ill. Flower-pot holder	277,125	May 8	777	204	23	1765
Goehring, Jacob, Davenport, Iowa. Rotary engine	275,819	Apr. 17	1248	344	23	1455
Goehring, John. (See Schutte and Goehring.)						
Goepel, Paul. (See Laufer, Christian F., assignor.)						
Goessmann, Charles A., St. Louis, Mo. Child's carriage	269,928	Jan. 2	124	37	23	26
Goetchins, Eugenia A. (See Goetchins, George H., assignor.)						
Goetchins, George H., assignor to E. A. Goetchins, Little Falls, N. Y. Cheese-vat	281,053	July 10	880	245	24	169
Goettel, John, and E. T. Slayton, St. Paul, Minn. Car-coupling	276,025	Apr. 17	1492	410	23	1498
Goff, Darius, Pawtucket, R. I. Fibrous batting	271,624	Feb. 6	50	13	23	449
Goff, Darius, Pawtucket, R. I. Fibrous absorptive pad	271,625	Feb. 6	51	13	23	449
Goff, Francis C., Englewood, Ill. Burial-case	289,643	Dec. 4	336	94	25	946
Goff, George P. (See Hendley, William, assignor.)						
Goff, George W., assignor to East Hampton Bell Company, East Hampton, Conn. Sleigh-bell attachment	280,305	June 26	2078	585	23	2503
Goff, James M. (See Meason, Charles W., assignor.)						
Goff, Mortimer, assignor of one-half to F. H. Hill, Chicago, Ill. Burial-case	282,072	July 31	2188	601	24	405
Goff, Richard, St. John's, Newfoundland. Veneer-press	273,723	Mar. 13	615	{165 / 166}	23	947
Goff, Tilmeon G., assignor of one-half to R. D. Brecknell, Springfield, Ohio. Self-closing gate	284,836	Sept. 11	833	233	24	1052
Goffney, William L., Newburg, N. Y. Automatic elevator-gate	290,326	Dec. 18	1187	333	25	1111
Gokey, Frank F., assignor of one-half to J. C. Platt, Winooski, Vt. Automatic advertising device	279,936	June 26	1638	{459 / 460}	23	2424
Gokey, Moses A. (See Batcheller, Lucien B., assignor.)						
Gold, Edward E., New York, N. Y. Gas-stove	281,685	July 24	1690	460	24	313
Gold, Joseph S., Columbus, Ohio. Clothes-drier	272,424	Feb. 20	1061	{298 / 299}	23	640
Gold, Samuel F., Englewood, N. J. Steam-radiator	288,995	Nov. 27	1509	417	25	795
Goldberg, Henry. (See Parke, Richard, assignor.)						
Goldberg, Henry. (See Parke and Goldberg.)						
Goldberg, Max, Milwaukee, Wis., assignor of one-half to W. S. Cooper, Philadelphia, Pa. Apparatus for administering medicated vapors	279,091	June 5	588	160	23	2224
Goldsberry, William H., Cedar Rapids, Iowa. Folding square and scale-holder	285,405	Sept. 25	1528	430	24	1188
Golden, Fendol S., Atlanta, Ga. Wagon-brake	270,946	Jan. 23	1386	400	23	288
Golden Gate Concentrator Company. (See Tobey and Thayer, assignors.)						
Goldey, Charles P., New York, and W. H. Goldey, Brooklyn, N. Y. Archery apparatus	273,510	Mar. 6	338	91, 92	23	892
Goldey, William H. (See Goldey, Charles P. and W. H.)						
Goldie, William. (See Durell and Goldie.)						
Goldie, William, West Bay City, Mich. Extinguishing device for lamp-burners	277,477	May 15	1194	321	23	1844
Goldie, William, West Bay City, Mich. Railway-spike	278,428	May 29	2396	651	23	2065
Golding, Asa G., New York, N. Y. Salt-cellar or spice-box	270,189	Jan. 2	425	123	23	87
Golding, John F., *et al.* (See Boyer, Joseph, assignor.)						
Golding, William H., Boston, Mass. Composing-stick	278,700	June 5	31	9	23	2130
Golding, William H., Chelsea, Mass. Type-case	287,430	Oct. 30	2087	567	25	405
Goldsborough, Arthur T., Washington, D. C. Bench-plane	284,732	Sept. 11	709	198	24	1030
Goldsborough, Richard A., *et al.* (See Upham, Artemas B., assignor.)						
Goldsmith, Frederick E., Jacksonborough, Ohio. Thill-coupling	273,064	Feb. 27	1872	526	23	789
Goldsmith, Gustavus A., *et al.*, executor. (See Reckendorfer, Joseph.)						
Goldsmith, John S., New York, N. Y. Street-sweeping machine	269,847	Jan. 2	34	11	23	9
Goldsmith, Louis. (See Hamilton, Emery M., assignor.)						
Goldsmith, Max. (See Heunsch, Rudolph, assignor.)						
Goldstein, Julius, assignor to S. Goldstein, Waterloo, Iowa. Salt-feeding device	281,993	July 24	2081	571	24	381
Goldstein, Siegfried. (See Goldstein, Julius, assignor.)						
Goliasch & Co., G. (See Gerken, Franz, assignor.)						
Gollings, Ellick H., Lewiston, Idaho Ter., assignor to himself and C. H. Smith, Chicago, Ill. Amalgamating apparatus	287,431	Oct. 30	2088	567	25	405
Gomes, William H. (See Gordon, Edgar T., assignor.)						
Gondolo, Paul, Paris, France, assignor to Gondolo Tannin Company, Huntingdon, Pa. Clarifying tannin extracts	283,881	Aug. 28	1707	.....	24	832
Gondolo Tannin Company. (See Gondolo, Paul, assignor.)						
Gonon, Paul E., New York, N. E. Manufacture of lead-pencils	277,707	May 15	1463	395	23	1889
Gontier, Guillaume, Cognac, France. Ratchet-wrench	290,036	Dec. 11	827	233	25	1039
Gonzales, Manuel, Jacksonville, Fla., assignor to J. W. Tufts, Medford, Mass. Machine for shaving ice	281,686	July 24	1694	461	24	313
Good, John, Brooklyn, N. Y. Machine for oiling and softening hemp and other vegetable fibers	280,814	July 10	595	166	24	111
Good, Robert J., Terre Haute, Ind. Guard for street-cars	277,564	May 15	1300	349	23	1861
Good, Robert J., assignor of one-half to J. Riehl, St. Louis, Mo. Roller-mill	289,083	Nov. 27	1621	449	25	814
Goodale, William W., Lowell, Mass. Tidy-fastener	288,996	Nov. 27	1510	418	25	795
Goodall, Francis M. (See Christy, Thomas J., assignor.)						
Goode, William C., King's Mountain, N. C. Washing-machine	282,514	Aug. 7	44	13	24	508
Goodell Company. (See Oaks, William A. C., assignor.)						
Goodell, George W., Beardstown, Ill. Process of and apparatus for blocking ice	275,192	Apr. 3	398	{109 / 110}	23	1295
Goodell, George W., Beardstown, Ill. Blocking ice	286,604	Oct. 16	1036	280	25	204
Goodell, Henry C., Atchison, Kans. Non-conducting covering	274,313	Mar. 20	1373	376	23	1065
Goodell, Henry C., Atchison, Kans. Boiler-covering	274,933	Apr. 3	64	17	23	1236
Goodell, Henry C., Atchison, Kans. Refrigerator	282,882	Aug. 7	487	137	24	586
Goodell & Waters. (See Feyh, Henry, assignor.)						
Goodell & Waters. (See Vernon, William G., assignor.)						
Goodenough, William E., Newark, N. J. Extension photograph-frame	270,785	Jan. 16	1190	343	23	247
Goodfellow, James, assignor to J. E. Mulford, New York, N. Y. Fare-register	283,706	Aug. 21	1487	419	24	783

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Goodfellow, James T., Philadelphia, Pa. System of laying subterranean lines of electric wires	272,833	Feb. 20	1568	442, 443	23	731
Goodfellow, John H., Troy, N. Y. Implement for attaching buttons	290,181	Dec. 11	991	280	25	1070
Goodfellow, John H., assignor to Goodfellow Manufacturing Company, Troy, N. Y. Button-fastening staple	273,724	Mar. 13	616	166	23	947
Goodfellow, John H., Troy, N. Y., assignor to Heaton Button Fastener Company, Providence, R. I. Implement for setting buttons	286,537	Oct. 9	943	254	25	182
Goodfellow, John H., Troy, N. Y., assignor to Heaton Button Fastener Company, Providence, R. I. Instrument for setting buttons	288,228	Nov. 13	540	150	25	611
Goodfellow, John H., Troy, N. Y., assignor to Heaton Button Fastener Company, Providence, R. I. Tool for attaching buttons to shoes	288,229	Nov. 13	542	150	25	611
Goodfellow Manufacturing Company. (See Goodfellow, John H., assignor.)						
Goodhart, Alexander, and G. Hemminger, Carlisle, Pa. Harrow	270,417	Jan. 9	712	211	23	149
Goodin, James L., Montgomery, Tex. Cotton-buncher	270,786	Jan. 16	1191	344	23	248
Goodknight, I. H. & T. M., *et al.* (See Atkinson, Henry C., assignor.)						
Goodloe, W. Cassius. (See Ely, Charles M., assignor.)						
Goodman, Burkard. (See Clough, William R., assignor.)						
Goodman, Henry, *et al.* (See Martinez, Rafael, assignor.)						
Goodman, Henry, assignor of one-half to D. P. Kane, St. Louis, Mo. Revolver	274,093	Mar. 13	1085	299	23	1028
Goodman, Henry, assignor of one-half to D. P. Kane, St. Louis, Mo. Lock for fire-arms	288,939	Nov. 20	1438	396	25	774
Goodman, Henry, assignor of one-half to D. P. Kane, St. Louis, Mo. Pulley	290,572	Dec. 18	1525	420	25	1170
Goodman, Isaac. (See Parke and Goldberg, assignors.)						
Goodner, George W., Chicago, Ill. Syringe	289,528	Dec. 4	196	55	25	921
Goodrich, Abram, Auburn, N. Y. Freight-car	288,792	Nov. 20	1267	347	25	743
Goodrich, Benjamin F., Akron, Ohio. Belting	270,303	Jan. 9	562	165	23	120
Goodrich, Charles H., Stoneham, Mass. Machine for finishing cocks or valves	270,052	Jan. 2	263	76, 77	23	54
Goodrich, Fred. (See Parnall, Alf N. and G. A., assignors.)						
Goodrich, Harry C., Chicago, Ill. Sewing-machine presser-foot	270,947	Jan. 23	1387	401	23	288
Goodrich, Harry C., Chicago, Ill. Tuck-creaser for sewing-machines	275,820	Apr. 17	1249	344	23	1455
Goodrich, Harry C., Chicago, Ill. Center-board	276,026	Apr. 17	1493	411	23	1498
Goodrich, Harry C., Chicago, Ill. Ruffling attachment for sewing-machines	284,628	Sept. 11	572	162	24	1007
Goodrich, Herman B. (See Stimson, Harlan P., assignor.)						
Goodrich, James T. (See Lewis, Leroy S., assignor.)						
Goodrich, Perry F., assignor of one-fourth to D. Salisbury, San Francisco, Cal. Engine	270,418	Jan. 9	713	211	23	149
Goodridge, James F., Boston, assignor of one-half to J. E. Russell, Leicester, and A. Pope, Boston, Mass. Fare-box	272,952	Feb. 27	1743	487	23	766
Goodridge, John C., Jr., New York, N. Y. Repairing structures with béton or concrete	271,234	Jan. 30	1736	502	23	354
Goodridge, John C., Jr., New York, N. Y. Electric-wire duct	278,233	May 22	2108	581	23	2008
Goodridge, John C., Jr., New York, N. Y. Apparatus for erecting and supporting colossal structures	289,644	Dec. 4	338	94, 95, 96	25	947
Goodsell, Benjamin H., C. Adamson, and C. O. Hering, Philadelphia, Pa. Electrically-heated mirror	281,224	July 10	1099	302	24	201
Goodspeed, George N. (See Sanderson, Charles M., assignor.)						
Goodwin, Adam, *et al.* (See Rinehart, Thomas M., assignor.)						
Goodwin, Caleb, Hyde Park, Ill. Combined pen holder and cleaner	283,389	Aug. 21	1115	315	24	713
Goodwin, Henry L., New York, N. Y. Rotary vegetable-cutter	271,701	Feb. 6	137	38	23	464
Goodwin, John E., Memphis, Tenn. Seed-planter	282,715	Aug. 7	299	85	24	552
Goodwin, John M., Sharpsville, Pa. Profile-paper, &c	270,657	Jan. 16	1028	.....	23	217
Goodwin, John M., Sharpsville, Pa. Track-laying device	279,092	June 5	588	160, 161	23	2224
Goodwin, Landon R., assignor to Adjustable Cover Company, New York, N. Y. Book-binding	286,694	Oct. 16	1156	311	25	225
Goodwin, Levi H., Cincinnati, Ohio. Driving chain or belt	279,743	June 19	1397	390	23	2376
Goodwin, Levi H., Cincinnati, Ohio. Wheel for wheelbarrows	281,865	July 24	1929	527	24	355
Goodwin, Louis D., Manchester, N. H. Transmitting motion	273,982	Mar. 13	946	260	23	1004
Goodwin, O. B. (See Malcolmson, Thomas, assignor.)						
Goodwin, Octavius B. (See Malcolmson, Thomas, assignor.)						
Goodwin, Seth W. (See King and Goodwin.)						
Goodwin, William F., Stelton, N. J. Rotary valve	278,790	June 5	154	45, 46	23	2149
Goodwin, William H., Boston, assignor of one-half to T. A. Watson, Everett, Mass. Tap	272,425	Feb. 20	1062	299	23	640
Goodyear, Francis W., Springfield, Mass. Mechanical movement	289,645	Dec. 4	340	96	25	947
Goodyear & McKay Sewing Machine Company. (See French, Zachary T., assignor.)						
Goodyear, Stephen W., and M. A. Morris, Waterbury, Conn. Rotary wire-straightener	277,267	May 8	940	252	23	1794
Goodyear's Metallic Rubber Shoe Company. (See Baldwin, Charles S., assignor.)						
Goold, John C., Albany, N. Y. Sliding window for coaches	277,565	May 15	1301	349	23	1861
Gordon, Alexander. (See Garrett, Davis, assignor.)						
Gordon, Charles, Cleveland, Ohio. Lamp-fixture	275,641	Apr. 10	1018	275	23	1408
Gordon, Charles, Cleveland, Ohio. Cuspidor	282,306	July 31	2494	685	24	455
Gordon, Charles, Cleveland, Ohio. Cuspidor	282,307	July 31	2495	685	24	455
Gordon, Charles, Cleveland, Ohio. Spittoon	287,534	Oct. 30	2214	601	25	431
Gordon, Cyrus D., Grand Crossing, Ill. Manufacturing linseed-oil	275,642	Apr. 10	1019	.....	23	1408
Gordon, Ebenezer, New York, N. Y. Dynamo and magneto electric machine	271,979	Feb. 6	485	131	23	524
Gordon, Edgar T., New York, assignor to W. H. Gomes, Brooklyn, N. Y. Manufacturing turning-lathes	281,263	July 17	1159	320	24	218
Gordon, Edward F., and H. Hobbs, Concord, N. H. Steam-generator	271,329	Jan. 30	1859	539	23	375
Gordon, Edward F., and H. Hobbs, Concord, N. H. Steam-radiator	271,330	Jan. 30	1861	539	23	375
Gordon, Fred. W., Pittsburg, Pa. Apparatus for charging blast-furnaces	290,037	Dec. 11	898	234	25	1039
Gordon, Fred. W., assignor, by mesne assignments, to himself and J. P. Witherow, Pittsburg, Pa. Cinder-car	274,587	Mar. 27	1752	486	23	1158
Gordon, Fredrick W., assignor, by mesne assignments, to himself and J. P. Witherow, Pittsburg, Pa. Hot-blast stove	278,234	May 22	2109	581	23	2003
Gordon, George C., Moundsville, W. Va. Millstone-driver	283,597	Aug. 21	1360	380	24	758
Gordon, George W., Sutton, Ky. Hand corn-sheller	274,588	Mar. 27	1753	486	23	1158
Gordon, George W. and W. H., Detroit, Mich. Adjustable window-screen	282,716	Aug. 7	301	85	24	552
Gordon, Irving S., *et al.* (See Thompson, William H., assignor.)						
Gordon, James E. H., Kensington, county of Middlesex, England. Dynamo-electric machine	284,292	Sept. 4	165	46, 47, 48	24	932
Gordon, James F., Rochester, N. Y. Grain-binder	283,096	Aug. 14	740	207, 208	24	639
Gordon, James F., Rochester, N. Y. Grain-harvesting machine	283,097	Aug. 14	742	208, 209	24	639
Gordon, Oscar L. (See Scott and Gordon.)						
Gordon, Perkins A., Milan, Ohio. Stove-truck	286,292	Oct. 9	654	174	25	199

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Gordon, Robert H., Reading, Pa. Apparatus for treating molten iron	287,973	Oct. 23	1889	517	25	361
Gordon, Robert W. (See Russell and Gordon.)						
Gordon, Solomon J. (See Ambuhl, Jacob, assignor.)						
Gordon, Solomon J. (See Boynton, Edward S., assignor.)						
Gordon, Upton M., *et al.* (See Miller, Frank, assignor.)						
Gordon, William, Boston, Mass. Sole-protector	276,803	May 1	350	93	23	1687
Gordon, William, Boston, Mass. Heel-filing machine	285,997	Oct. 2	268	75	25	51
Gordon, William, Boston, Mass. Sole and heel edge burnishing machine	286,128	Oct. 2	498	117	25	79
Gordon, William C., Langham Hotel, county of Middlesex, England. Electric fire-alarm apparatus	287,664	Oct. 30	2399	647	25	466
Gordon, William H. (See Gordon, George W. and W. H.)						
Gordon, William H., and P. J. Boost, Detroit, Mich. Cheese-safe	272,875	Feb. 27	1650	462	23	751
Gordon, William H., and P. J. Boost, Detroit, Mich. Cheese-safe	274,119	Mar. 20	1128	311	23	1042
Gore, Charles E., and J. Eisele; said Eisele assignor to B. F. Masten, Lafayette, Ind. Brake-shoe	270,583	Jan. 16	931	269	23	199
Gore, Charles E., Lafayette, Ind., assignor of one-half to S. E. Ogden, Columbus, Ohio. Water-jacket for metallurgic furnaces	283,098	Aug. 14	745	209 210	24	639
Gore, Henry A., Goshen, Ind., assignor of one-half to De A. Dickinson, Grant, Iowa. Staple-puller	277,420	May 8	1120	300	23	1895
Gorham, Annie L., Boston, Mass. Ornamentation of ceramics	276,389	Apr. 24	1958	542	23	1585
Gorham, John M., Cleveland, Ohio. Wash-board protector	285,254	Sept. 18	1343	378	24	1150
Gorla, Camillo J., East St. Louis, Ill. Fence-post	277,708	May 15	1465	395	23	1890
Gorla, Camillo J., East St. Louis, Ill. Fence-post	287,923	Nov. 6	168	48	25	537
Gormly, Patrick, and L. Bridge, Philadelphia, Pa. Steam-radiator	270,053	Jan. 2	265	77	23	54
Gorrell, Albert, assignor of one-half to G. Carl, Shreve, Ohio. Shock-compressor	285,255	Sept. 18	1345	379	24	1150
Gorringe, Henry H., New York, N. Y. Apparatus for elevating and distributing dredged and other materials	275,643	Apr. 10	1020	275	23	1408
Gorton, Alonzo H., O. C. Patchell, and W. E. Gorton, Corning, N. Y. Railway-frog	287,274	Oct. 23	1891	517	25	362
Gorton, Charles, Philadelphia, Pa. Steam-generator	280,605	July 3	322	90	24	57
Gorton, Charles, Philadelphia, Pa. Steam-generator	280,606	July 3	323	90	24	57
Gorton, William E. (See Gorton, Patchell, and Gorton.)						
Gorton, Wilson L., Plano, Ill. Calendar	273,725	Mar. 13	618	166	23	947
Gosnell, Andrew J., Terre Haute, Ind. Dredging-bucket	283,598	Aug. 21	1361	380	24	758
Gosnell, Andrew J., assignor to himself and P. N. Staff, Terre Haute, Ind. Grappling device	272,953	Feb. 27	1744	487	23	766
Goss, Charles E., Lynn, assignor to himself and W. H. Goss, Brooklyn, N. Y. Attachment for shoe-lasts	279,377	June 12	968	268	23	2296
Goss, Joseph, assignor to Monitor Works, Beloit, Wis. Barbed fence	282,453	July 31	2688	738	24	489
Goss, William H. (See Goss, Charles E., assignor.)						
Goss, William H., Boston, Mass. Packing-case for holding bananas during transportation	276,027	Apr. 17	1496	411	23	1498
Gossett, William J., Liberty, Tenn., assignor of one-half to J. J. Williams and S. D. Bass. Car-coupling	278,235	May 22	2110	581	23	2009
Gosshorn, William, Waterloo, Pa. Gate	285,611	Sept. 25	1774	502	24	1234
Gosweiler, Jacob, Cleveland, Ohio. Crank	283,099	Aug. 14	747	210	24	640
Gotchall, William O., Garfield, Ill. Elevator for corn-shellers	288,426	Nov. 13	810	219	25	657
Gottheimer, Henry, Brooklyn, N. Y. Apparatus for checking and controlling horses	289,406	Dec. 4	40	12	25	894
Gottschalk, Daniel, Dunkirk, N. Y. Eaves-trough hanger	288,793	Nov. 20	1268	347	25	743
Gottschall, Oscar M., trustee. (See Edwards, Edgar A., assignor.)						
Goubert, Auguste A., Jersey City, N. J. Centrifugal machine	274,187	Mar. 20	1209	332 333	23	1057
Goubert, Auguste A., Jersey City, N. J. Centrifugal machine	280,465	July 3	166	45	24	30
Goudie, David R., London, Ontario, Canada. Child's money bank or box	282,978	Aug. 14	592	167	24	613
Gould, Appleton, Bangor, Me. Device for converting motion	276,028	Apr. 17	1497	412	23	1498
Gould, Fayette, New York, N. Y. Speaking-tube attachment	272,541	Feb. 20	1204	336	23	665
Gould, Forrest B., Boston, Mass. Microscopic photographic transparency	271,838	Feb. 6	308	84	23	495
Gould, Forrest B., Boston, Mass. Locket	277,022	May 8	645	168	23	1742
Gould, Herbert I., Providence, R. I. Hoop-skirt	290,676	Dec. 25	1655	456	25	1199
Gould, Herbert I., Providence, R. I. Hoop-skirt	290,677	Dec. 25	1656	457	25	1199
Gould, James, Lexington, Mass. Fertilizer	277,023	May 8	646	.....	23	1742
Gould, John C., Chicago, Ill. Mouse-trap	280,369	July 3	37	10	24	9
Gould, Joshua P., Bangor, Me. Eaves-trough	280,737	July 3	483	136	24	86
Gould, Lyman, Norwich, Conn. Circular sawing machine	287,275	Oct. 23	1891	518	25	362
Gould, Lyman, Norwich, Conn. Sawing and gaining machine	290,327	Dec. 18	1188	333	25	1112
Gould, Orange P., Elmira, N. Y. Clothes-wringer	281,866	July 24	1930	527	24	355
Gould, Robert S., East Orange, N. J. Angle-joint for curtain-poles	275,480	Apr. 10	811	219	23	1373
Gould, Robert S., East Orange, N. J. Extension-bracket for curtain-poles	275,481	Apr. 10	811	220	23	1373
Gould, Simeon L., Gardiner, Me. Automatic pulp-extractor	277,968	May 8	942	252 253	23	1794
Gould, William B. (See Wayland, James, assignor.)						
Gould, William F., Stuart, Iowa. Railway-rail cushion and joint	280,039	June 26	1755	493	23	9445
Gould, William F., Stuart, Iowa. Railway-rail joint	285,466	Sept. 25	1529	430	24	1188
Goulton, Benjamin, Kaco, Wangaroa, New Zealand. Saw-handle	270,419	Jan. 9	714	211	23	149
Gourdiat, Jude and L., Carare, France. Machine for stretching or tentering woven fabrics	280,031	June 26	1756	493 494	23	9445
Gourdiat, Laurent. (See Gourdiat, Jude and L.)						
Gourdiat, Laurent, Tarare, France. Apparatus for dyeing textile fabrics	290,678	Dec. 25	1656	457	25	1199
Gourdier, Henry, New York, N. Y. Horseshoe	273,677	Mar. 6	564	149	23	930
Gourley, Seymour E., *et al.* (See Lattimer, Francis, assignor.)						
Gowan, George, Shell Lake, Wis. Circular sawing machine	288,173	Nov. 6	468	130	25	589
Gowan, James H., assignor of part to A. O. Hall, G. H. Peeke, and W. P. Black, Chicago, Ill. Car-wheel boring and truing machine	285,123	Sept. 18	1191	334	24	1122
Gowan, James H., assignor to W. P. Black, Chicago, Ill. Car-wheel-truing machine	287,762	Oct. 30	2537	683	25	491
Gowdey, John, Janesville, Wis. Fire-escape	280,306	June 26	2078	585	23	2563
Gowdy, Ryan, Shelbyville, Ill. Straw-stacker	285,747	Sept. 25	1950	551	24	1264
Gowing, George, San Francisco, Cal. Sewing-machine for sewing carpets and other heavy fabrics	287,276	Oct. 23	1892	519	25	362
Goy, William, assignor to A. Goy-Golay, Brassus, Switzerland. Stop-watch	278,127	May 22	1972	541	23	1985
Goy-Golay, A. (See Goy, William, assignor.)						
Goyne, Arthur H., *et al.* (See Goyne, Charles A., assignor.)						
Goyne, Charles A., assignor to himself, F. H., T. R., and A. H. Goyne, Ashland, Pa. Operating valves of steam-pumps	289,250	Nov. 27	1816	502	25	850
Goyne, Francis H., *et al.* (See Goyne, Charles A., assignor.)						
Goyne, Thomas R., *et al.* (See Goyne, Charles A., assignor.)						
Grace, Harry R., assignor to T. B. Hagstoz and C. N. Thorpe, Philadelphia, Pa. Advertising-card	279,866	June 19	1544	431	23	2401

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Grace, William, assignor of one-half to C. H. Mitchell, Chicago, Ill. Door-hanger	281,054	July 10	881	245	24	163
Gracey, Charles, Contention, Ariz. Ter. Amalgamating-pan	284,293	Sept. 4	169	48	24	932
Grader, George W., Marblehead, Mass. Baling and packing away cotton	281,490	July 17	1442	395	24	266
Graef, Charles H. (See Hackenberg, Julius, assignor.)						
Graeter, Henrey A., Wooster, Ohio. Flour-bolt	273,836	Mar. 13	772	209	23	974
Graff, Christian, Upper St. Clair, Pa. Lock for milk-cans	284,412	Sept. 4	309	86	24	956
Gräff, Wilhelm. (See Schwintzer and Gräff.)						
Grafton, Edwin W., Chicago, Ill. Spring bed-bottom	287,120	Oct. 23	1697	465	25	328
Grafton, Henry, London, county of Middlesex, England. Tipping truck	274,314	Mar. 20	1375	377	23	1086
Grafton, William, Cuero, Tex. Insect-destroyer	290,877	Dec. 25	1915	528	25	1245
Graham, Andrew, assignor of one-half to J. C. Harwood and A. N. Minor, Clarion, Iowa. Wagon end-gate	274,757	Mar. 27	1946	541	23	1193
Graham, Daniel M., Boston, Mass. Apparatus for vaporizing and burning petroleum	276,578	May 1	46	14	23	1635
Graham, Daniel M., Chicago, Ill. Steam-boiler	286,695	Oct. 16	1157	311	25	225
Graham, Daniel M., Chicago, Ill. Steam-generator	287,824	Nov. 6	43	13	25	515
Graham, Daniel M., Chicago, Ill. Chimney for furnaces	290,573	Dec. 18	1526	420	25	1170
Graham, Dugald. (See McDonald, Hugh, assignor.)						
Graham, Irving H., Hopewell Junction, N. Y. Baking-pan	272,679	Feb. 20	1379	388	23	696
Graham, James A., London, county of Middlesex, England. Treating certain vegetable fibrous substances for the production of fiber for spinning, paper-making, &c	280,171	June 26	1907	.....	23	2472
Graham, James A., London, county of Middlesex, England. Covering iron with lead	280,466	July 3	168	.....	24	31
Graham, James B. (See Harper, John W., assignor.)						
Graham, James S. (See Hornbeck, Lorenzo D., assignor.)						
Graham, John, Chicago, Ill. Water-faucet	272,040	Feb. 13	567	153	23	550
Graham, John, Chicago, Ill. Lubricator	283,481	Aug. 21	1226	345	24	733
Graham, John, Chicago, Ill. Cut-off valve	283,773	Aug. 28	1581	446, 447	24	812
Graham, John, Chicago, Ill. Cut-off for service-pipes	283,774	Aug. 28	1583	447	24	812
Graham, John W. (See Park and Graham.)						
Graham, Joseph P., Chester, Ky. Bilge-water ejector	271,060	Jan. 23	1523	439	23	310
Graham, William A., Carlisle, Pa. Brick-machine	289,769	Dec. 4	490	136	25	971
Graham, William H., Pittsburg, Pa. Device for arresting dust from ashes	281,867	July 24	1931	528	24	355
Grahser, Michael, Chicago, Ill. Velocipede	287,825	Nov. 6	43	13	25	515
Grainger, Charles J., Houston, assignor of one-half to J. W. Dibrell, Galveston, Tex. Removable can-top	290,985	Dec. 25	2067	569	25	1269
Gramke, Carl F. A., Stettin, Prussia, Germany. Grain purifier and separator	274,589	Mar. 27	1753	486, 487	23	1158
Grandy, I. B., *et al.* (See Zinsmaier and Burt, assignors.)						
Grandy, Pierre J., Margaux, France. Harness	290,038	Dec. 11	830	234	25	1039
Graner, John, assignor of one-half to H. S. Smith, Jr., New Orleans, La. Machine for cleaning cotton and other fibers	271,578	Jan. 30	2176	626	23	431
Granger, Alvan P., Denver, Colo. Ore-separator	269,848	Jan. 2	35	12	23	9
Granger, Arthur O. (See Collins and Granger.)						
Granger, Arthur O., and J. H. Collins, Jr., assignors to A. O. Granger & Co., Philadelphia, Pa. Process of and apparatus for manufacturing gas	287,277	Oct. 23	1895	519	25	363
Granger & Co., A. O. (See Granger and Collins, assignors.)						
Granger, Dennis W., Franklin, N. Y. Guard for cattle	270,054	Jan. 2	266	77	23	54
Granger, Lewis, and E. F. Sibley, Armada, Mich. Fruit-drier	278,701	June 5	31	9	23	2130
Granger, Sumner C., assignor of one-half to J. Snyder, South Chicago, Ill. Apparatus for the manufacture of corn-sirup	271,235	Jan. 30	1737	503	23	354
Granite Roofing Company. (See Miner, Henry M., assignor.)						
Grannan, Louis, assignor of one-third to J. K. Rupertus, Philadelphia, Pa. Packing for valve-stems, &c	275,193	Apr. 3	399	110	23	1295
Granniss, Charles E., New Haven, Conn. Garment-clasp	272,954	Feb. 27	1745	487	23	766
Grant, Charles, Jr., Boston, Mass. Automatic cash and parcel carrier	287,278	Oct. 23	1898	519	25	364
Grant, Charles H. (See Gaston and Grant.)						
Grant, Charles V., *et al.* (See Millholland, Henry, assignor.)						
Grant & Co., Smith. (See Newell and Ladd, assignors.)						
Grant, Daniel. (See Ross and Grant.)						
Grant, David H., Walton, N. Y. Machine for cutting miters	290,768	Dec. 25	1781	492	25	1222
Grant, Frank, Chester, Mass. Bit-stock	280,607	July 3	324	91	24	58
Grant, Frank S., New York, N. Y. Hypodermatic syringe	286,605	Oct. 16	1036	280	25	204
Grant, James C., Newburg, N. Y. Hat-felting machine	270,422	Jan. 9	718	212	23	150
Grant, James M., Hartford, Conn. Tension-equalizer for thread-doubling machines	283,599	Aug. 21	1362	380, 381	24	759
Grant, John A., Fremont, Ohio. Machine for cutting hoops	285,612	Sept. 25	1775	503	24	1234
Grant, Joseph C., New York, assignor to himself, W. W. Dusenberry, Brooklyn, N. Y., and A. E. Parkhurst, Plainfield, N. J. Method of and apparatus for making coffee and other beverages	276,579	May 1	47	14	23	1635
Grant, Smith, Lincoln, R. I. Hoisting-bucket	275,821	Apr. 17	1252	344	23	1455
Granville, Austyn W. (See Dement and Granville.)						
Grapho Pen Manufacturing Company. (See Hughes and Carwardine, assignors.)						
Grassler, William F., Williamsport, Pa. Car-axle box	270,421	Jan. 9	717	212	23	150
Gratz, Lewis C. (See Davis, Augustus B. and N. H., assignors.)						
Gratz, Louis C., *et al.* (See Davis, Nathan H., assignor.)						
Grau, Heinrich, Cassel, Prussia, Germany. Electro-magnetic motor for clocks	279,239	June 12	776	214	23	2266
Graver, Erwin S., Philadelphia, Pa. Car-coupling	272,680	Feb. 20	1380	388	23	696
Graves, Anna M., Newark, N. J. Glass-lined metal can	274,934	Apr. 3	65	17	23	1236
Graves, Charles G., assignor of one-half to E. Marsh, Oneida, Ill. Creamer	274,485	Mar. 27	1623	450	23	1135
Graves, Edward H. and L. L., and G. W. Brottor, Streator, Ill. Hoisting-machine	282,979	Aug. 14	592	167	24	613
Graves, Francis C., assignor of one-half to L. B. Plimpton, Hartford, Conn. Stamp-sticker	270,948	Jan. 23	1383	401	23	289
Graves, Gilbert S., assignor of one-half to H. Hamlin, Buffalo, N. Y. Starch-separator	270,304	Jan. 9	563	166	23	120
Graves, John B., assignor of one-half to W. H. Bennett, Lebanon, Tenn. Dental model	270,566	Jan. 9	909	262	23	187
Graves, Louis L. (See Graves and Brottor.)						
Graves, Marshall E., assignor to Shorey Spring Bed and Shade Roller Company, Lowell, Mass. Bed-bottom	278,330	May 29	2259	619	23	2042
Graves, Ole O., Highland, Dak. Ter. Grain thrasher and separator	287,665	Oct. 30	2400	647	25	466
Graves, Oriel M., assignor of one-half to T. L. Graves, Eugene, Oreg. Dental chair	284,294	Sept. 4	170	48	24	932
Graves, T. L. (See Graves, Oriel M., assignor.)						
Graves, Willis N., assignor of one-half to Hydraulic Press Brick Company, St. Louis, Mo., Brick-kiln	277,421	May 8	1121	300, 301	23	1895
Gravier, Alphonse I., Paris, France. Magneto and dynamo electric machine	276,390	Apr. 24	1958	542, 543	23	1585
Gravier, Alphonse I., Paris, France. Regulator for electric-arc lamps	278,304	May 22	2214	607	23	2096

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Gray, Adelbert W., assignor, by mesne assignments, to Time Telegraph Company, New York, N. Y. Electric-clock escapement	274,445	Mar. 20	1552	425	23	1117
Gray, Charles M., Chicago, Ill., and W. L. Casaday, South Bend, Ind. Cultivator and fertilizer-distributer	270,584	Jan. 16	932	269, 270	23	200
Gray, Charles W., Minneapolis, Minn. Lathe-chuck	286,426	Oct. 9	813	220	25	158
Gray, Christian, Buffalo, N. Y. Punch-holder	280,608	July 3	325	91	24	58
Gray, Daniel T., Jersey City, N. J. Filtering apparatus for purifying paraffine, &c.	281,491	July 17	1444	395	24	966
Gray, Elisha, Highland Park, Ill., and F. L. Pope, Elizabeth, N. J. Signaling apparatus for telephone and telegraph lines	284,003	Aug. 28	1877	526, 527	24	863
Gray, Gardner B. and W. B., Cardington, Ohio. Gas or vapor engine	287,666	Oct. 30	2404	648	25	467
Gray, George, New York, N. Y. Muffled school-slate	286,196	Oct. 9	510	141	25	105
Gray, Gorham, Boston, Mass. Forming metal wire	276,391	Apr. 24	1961	543	23	1585
Gray, Gorham, Boston, Mass. Telegraph and telephone wire	290,769	Dec. 25	1783	492	25	1223
Gray, James C. (See Griffith, William, assignor.)						
Gray, James R., Ayer, assignor to G. Draper & Sons, Hopedale, Mass. Spindle and support or bearing therefor	287,279	Oct. 23	1899	519	25	364
Gray, James R., Ayer, assignor to Sawyer Spindle Company, Boston, Mass. Spindle for ring-spinning frames	288,230	Nov. 13	544	150	25	612
Gray, James R., Ayer, assignor to Sawyer Spindle Company, Boston, Mass. Bolster for spinning-frame spindles	289,084	Nov. 27	1622	449	25	814
Gray, James R., Ayer, assignor to Sawyer Spindle Company, Boston, Mass. Spindle for ring-spinning frames	289,344	Nov. 27	1932	537	25	872
Gray, John. (See Cole, Wesley, assignor.)						
Gray, Joseph V., Rushville, Ind. Spring bed-bottom	270,949	Jan. 23	1390	401	23	289
Gray, Joshua, Medford, Mass. Railway-signal	270,305	Jan. 9	565	166	23	190
Gray, Joshua, Medford, Mass. Dynamo-electric machine	285,027	Sept. 18	1060	301, 302	24	1103
Gray, Josiah, assignor to himself, W. Hollenbeck, C. B. Shefler, and J. R. Reed, Chicago, Ill. Railway-switch bridle	270,544	Jan. 9	882	256	23	182
Gray, Josiah, and W. Hollenback, assignors to themselves, C. B. Shefler, and J. R. Reed, Chicago, Ill. Railway-switch	275,038	Apr. 3	207	56	23	1261
Gray, Leroy, Sycamore, Ill. Beam for shovel-plows	283,390	Aug. 21	1115	315	24	714
Gray, Leroy, Sycamore, Ill. Cultivator	283,775	Aug. 28	1584	447, 448	24	812
Gray, Lyman C., Fort Dodge, Iowa. Postal cabinet	275,194	Apr. 3	400	110, 111	23	1295
Gray, Oliver R., *et al.* (See Cline, John B., assignor.)						
Gray, Richard, and B. R. Abbott, Bloomington, Ill. Iron pile	272,426	Feb. 20	1063	299	23	640
Gray, Richard E., Williamsport, Pa. Car-coupling	289,407	Dec. 4	41	12	25	894
Gray, Samuel J., Fort Gratiot, Mich. Railway-guard	290,770	Dec. 25	1783	493	25	1223
Gray, Sylvester, Long Island City, N. Y. Refrigerator	288,427	Nov. 13	811	219	25	657
Gray, Walter G., assignor to himself and W. H. Burgess, Ringgold, Tenn. Corn-planter	287,121	Oct. 23	1698	465	25	328
Gray, William, Romeo, Mich. Hand corn-planter	290,574	Dec. 18	1527	420	25	1171
Gray, William B. (See Gray, Gardner B. and W. B.)						
Gray, William D., Milwaukee, Wis. Apparatus for the gradual reduction of grain	271,331	Jan. 30	1861	540, 541	23	375
Gray, William D., Milwaukee, Wis. Test-plate for roller-mills	273,065	Feb. 27	1872	526	23	789
Gray, William D., Milwaukee, Wis. Flour-dressing machine	278,702	June 5	32	9, 10	23	2130
Gray, William D., Milwaukee, Wis. Machine for the gradual reduction of grain	283,339	Aug. 14	1041	293	24	694
Gray, William H., West Falls, Md. Shingle-sawing machine	278,128	May 22	1974	541, 542	23	1965
Gray, William P., Ainsworth, Wash. Ter. Life-preserver holder	277,269	May 8	943	253	23	1795
Graydon, James W., Newport, R. I., assignor, by mesne assignments, to Coast and Harbor Defence Company, of New York. Submarine torpedo	270,950	Jan. 23	1390	401, 402	23	289
Graydon, Thomas W., Cincinnati, Ohio. Lamp	270,420	Jan. 9	715	211	23	149
Grebe, Henry, Omaha, Nebr. Hay-gatherer	272,237	Feb. 13	809	225	23	592
Greeley, Randall, Salem, Mo. Stump-puller	275,644	Apr. 10	1021	275	23	1408
Greely, Benjamin J., Boston, Mass. Garment-supporter	287,020	Oct. 23	1573	434	25	303
Greely, Charles B. (See Holbon, Robert, assignor.)						
Green, Albert, New York, N. Y. Toy	279,743	June 19	1398	390	23	2376
Green, Albert E., Hebron, Wis. Harrow	284,837	Sept. 11	835	233	24	1052
Green, Alexander, assignor of one-half to J. Hepfinger, Delta, Ohio. Churn-motor	290,639	Dec. 18	1606	441	25	1183
Green, Anna M., Denver, Colo. Metallic eyelet-fastening for drawers	280,032	June 26	1760	494	23	2445
Green, Charles. (See Wilson, William, Jr., assignor.)						
Green, Charles, Readfield, Me. Clutch-hook	274,935	Apr. 3	66	18	23	1237
Green, Charles W., Brooklyn, N. Y. Square	281,761	July 24	1797	490	24	332
Green, Duby, Cincinnati, Ohio. Thill coupling and detacher	270,658	Jan. 16	1030	296	23	217
Green, Duby, Cincinnati, Ohio. Vehicle-brake	282,717	Aug. 7	302	85	24	552
Green, Elisha K., Los Angeles, Cal. Pipe-grapple	281,492	July 17	1446	395	24	966
Green, Elmer, North East, Pa. Window shade and screen	289,408	Dec. 4	42	12	25	894
Green, Furney F., Comanche, Tex. Veterinary medicine	288,630	Nov. 20	1062	.....	25	708
Green, George. (See Hamilton, Miles E., assignor.)						
Green, George F., Kalamazoo, Mich., assignor to W. N. Whiteley, J. Fasaler, and O. S. Kelly, Springfield, Ohio. Automatic grain-binder	277,709	May 15	1466	395, 396	23	1890
Green, Imlah M., and J. P. Birch, Philadelphia, Pa. Conduit for electric wires	284,413	Sept. 4	310	86, 87	24	956
Green, James A., assignor to Green & Stevens, Bay City, Mich. Lubricator	288,328	Nov. 13	676	186	25	632
Green, James H., Brooklyn, N. Y. Supporting and preserving telegraphic conductors	275,195	Apr. 3	402	111	23	1295
Green, John, assignor of one-half to R. M. Collins, St. Louis, Mo. Attachment for cutter-heads	271,199	Jan. 23	1696	489	23	338
Green, John C., Peoria, Ill. Vegetable-cutter	272,041	Feb. 13	568	154	23	551
Green, John J., Bridgeport, Conn. Whiffletree-hook	275,196	Apr. 3	404	111	23	1296
Green, John S. (See Barber, Wanton C., assignor.)						
Green, Joseph A. (See Risley, Caleb M., assignor.)						
Green, Joseph W., Jr., and A. Smith, assignors to Glendale Elastic Fabric Company, East Hampton, Mass. Elastic or cord fabric	283,100	Aug. 14	749	211	24	640
Green, Lot, Rushville, Ind. Two-wheeled vehicle	281,994	July 24	2082	571	24	381
Green, Monroe, Brooklyn, N. Y. Corkscrew	276,804	May 1	350	94	23	1687
Green, Perley, and E. P. Duncklee, Stoneham, Mass., assignors to said Duncklee, trustee. Boot and shoe sole	289,646	Dec. 4	341	96	25	947
Green, Salmon T., and L. M. Heald, Charlotte, Mich. Plow	283,236	Aug. 14	913	254, 255	24	670
Green, Samuel. (See Dietzel and Green.)						
Green & Stevens. (See Green, James A., assignor.)						
Green, William C. (See Hilliard and Green.)						
Green, William T., Covington, Ky. Plug-tobacco press	276,680	May 1	188	48	23	1656

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Green, William W., assignor to Garden City Fan Company and L. G. Stark, Chicago, Ill. Exhaust or blower fan	272,542	Feb. 20	1205	336	23	665
Greenaway, Benjamin, Louisville, Ky. Overshoe for horses	287,280	Oct. 23	1900	520	25	364
Greene, Edmund B., and C. J. Emerson, Jr., Westfield, Mass. Metronome	271,448	Jan. 30	2016	581	23	404
Greene, Henry. (See Box, William W., assignor.)						
Greene, Henry, Philadelphia, Pa. Fire-escape	279,744	June 19	1399	391	23	2376
Greene, Isaac T., assignor of one-half to D. E. Smith, Milford, Conn. Hand-rubber for washing	285,256	Sept. 18	1345	379	24	1150
Greene, J. Ashton. (See Baxter, William, assignor.)						
Greene, J. Ashton. (See Blake, Henry, assignor.)						
Greene, Jonathan H., Philadelphia, Pa., assignor to himself, D. W. Wagner, New Haven, Conn., and R. T. Wilson, Philadelphia, Pa. Utilizing waste oil-cloth, &c	276,029	Apr. 17	1498	.....	23	1499
Greene, Nathan H., Montreal, Quebec, Canada. Freight-car	283,340	Aug. 14	1043	293	24	695
Greene, Richard T., Sauk Centre, Minn. Hook for suspending ladders	274,758	Mar. 27	1948	541	23	1193
Greene Stove Company. (See Miller, John A., assignor.)						
Greene, William A., Brooklyn, N. Y. Cooking-stove	271,626	Feb. 6	52	14, 15	23	449
Greene, William A., Brooklyn, N. Y. Boiler-furnace	271,627	Feb. 6	55	15, 16	23	450
Greene, William J., and J. L. Herlick, Marquette, Mich. Twine-adjuster	284,414	Sept. 4	312	87	24	956
Greenebaum, Moses S., *et al.* (See Chamberlain and Harris, assignors.)						
Greener, Richard, assignor of one-half to W. A. Hedden, New Albany, Ind. Oversock	290,640	Dec. 18	1607	442	25	1183
Greenfield, Edwin T., assignor of one-half to S. Bergmann, New York, N. Y. System of electrical distribution	278,535	May 29	2514	686	23	2088
Greenhalgh, Henry. (See Greenhalgh, John B. and H.)						
Greenhalgh, John B., Blackstone, Mass. Lamp-burner	275,901	Apr. 17	1348	371	23	1473
Greenhalgh, John B. and H., Blackstone, Mass. Nut-lock	281,055	July 10	882	245	24	163
Greening, Winfield S., Decatur, assignor to D. Blalock, Macon County, Ill. Sash-cord guide	280,609	July 3	326	91	24	58
Greenlee, Andrew M. (See Houck, Greenlee, and Houck.)						
Greenlee, Ralph S., assignor of one-half to R. L. Greenlee, Chicago, Ill. Mortising-machine	283,341	Aug. 14	1044	294	24	695
Greenlee, Robert L. (See Greenlee, Ralph S., assignor.)						
Greenough, John J., Syracuse, N. Y. Universal-jointed arm. (Reissue)	10,278	Jan. 30	2184	628	23	433
Greenwood, James, *et al.* (See Maybury, William, assignor.)						
Greenwood, John, Rochester, N. Y. Elevator	273,273	Mar. 6	33	11	23	840
Greenwood, Thomas H. (See Gilbert and Greenwood.)						
Greer, Howard, Chicago, Ill. Roll for slitting iron	281,184	July 10	1047	290	24	192
Greer, Howard, Chicago, Ill., assignor of one-half to G. H. Christy, trustee, Sewickley, Pa. Machine for making spikes	285,355	Sept. 18	1460	411	24	1170
Greer, Joseph A., Galveston, Tex. Compound for the manufacture of artificial stone	269,849	Jan. 2	37	.....	23	10
Greer, William N., Watertown, Dak. Ter. Fish-trap hook	280,610	July 3	327	91	24	58
Greeven, Georg A., Bruehl, Prussia, Germany. Steam vacuum-pump	283,101	Aug. 14	750	211	24	640
Gregerson, George A., Rochester, Minn. Neck-yoke	274,759	Mar. 27	1948	542	23	1194
Gregg, Cyrus A., *et al.* (See Swartout, William H., assignor.)						
Gregg, Edgar C. (See Fell and Gregg.)						
Gregg, Edgar C., and J. P. Fell, Wheeling, Mo. Hay stacker and loader	283,882	Aug. 28	1707	481	24	833
Gregg, Elliot T., Marshall, Mich. Cultivator	274,590	Mar. 27	1755	487	23	1158
Gregg, Isaac N., and E. Briody, Santa Cruz; said Gregg assignor of one-half to T. Brady, Santa Cruz County, Cal. Tap and faucet	279,745	June 19	1400	391	23	2377
Gregg, Washington P., Boston, Mass. Roller-skate	275,482	Apr. 10	812	220	23	1373
Gregg, William, assignor to himself and J. A. Fowler, Mason, Mich. Device for handling fruit-cans	274,591	Mar. 27	1755	487	23	1158
Gregory, Charles E. (See Buschick, Gustavus E., assignor.)						
Gregory, Fred L., Neligh, Nebr. Bird-perch	276,392	Apr. 24	1962	543	23	1586
Gregory, Fred L., Neligh, Nebr. Second-hand attachment for clocks	281,493	July 17	1447	396	24	267
Gregory, George, Allegheny, Pa. Oscillating steam-engine	285,998	Oct. 2	969	75	25	51
Gregory, George W. (See Haynes, Edgar K., assignor.)						
Gregory, George W., assignor to E. L. Sprague, Boston, Mass. Boot or shoe	290,986	Dec. 25	2067	569	25	1269
Gregory, John, and V. Lapham, Marion, Ohio. Grain-drier	288,428	Nov. 13	812	220	25	657
Gregory, John H., Providence, R. I. Button	288,053	Nov. 6	331	93	25	564
Gregory, Paul, Davenport's Landing, Cal. Mold-board for side-hill plows	285,481	Sept. 25	1616	453	24	1204
Gregory, Thomas J. (See Day and Gregory.)						
Greig, Bennet, New York, N. Y. Frame for feather ornaments	290,679	Dec. 25	1659	457	25	1199
Greig, George, Edinburgh, Scotland. Steam-plow	279,937	June 26	1639	460	23	2424
Greives, John, Paterson, N. J. Electrical insulating material	278,536	May 29	2515	.....	23	2088
Grellner, Christopher J., St. Louis, Mo. Hammer	275,645	Apr. 10	1022	276	23	1408
Grellner, Christopher J., St. Louis, Mo. Hammer	282,308	July 31	2496	685	24	455
Grems, John, Leyden, N. Y. Whiffletree	287,376	Oct. 23	2018	549	25	385
Gresham, James. (See Sheward and Gresham.)						
Gretschel, Alfred H., Leipsic, Germany. Saw-gnard	285,407	Sept. 25	1530	431	24	1188
Greve, Herman, St. Paul, Minn. Electric ore-separator	282,073	July 31	2189	601	24	405
Grey, Robert I. (See Fritts, Peter C., assignor.)						
Gridley, Nelson C., *et al.* (See Chambers, Josephus C., assignor.)						
Gridley, Nelson C. (See Hibbard, George E., assignor.)						
Grier, George S., Milford, Del. Fruit-drier	284,838	Sept. 11	836	234	24	1052
Grier, Robert M. (See Osmer and Grier.)						
Grier, William W., Hulton, Pa. Fifth-wheel for vehicles	288,997	Nov. 27	1511	418	25	795
Griesche, Gustav. (See Edenborn and Griesche.)						
Griesenauer, John, Dardenne, Mo. Fire-escape	289,908	Dec. 11	673	187	25	1011
Griest, John M., assignor to W. Scates, Chicago, and T. S. Ridgway, Shawneetown, Ill. Ruffling attachment for sewing-machines	280,926	July 10	729	204	24	134
Griest, John M., assignor, by mesne assignments, to Chicago Attachment Company, Chicago, Ill. Riveting metals together	290,229	Dec. 18	1062	297	25	1090
Grieves, Andrew, Allegheny, Pa. Welding apparatus	285,124	Sept. 18	1193	334	24	1122
Griffen, George H. (See Bailey and Griffen.)						
Griffin, Dora G., Grand Rapids, Mich. Device for exposing hair to the action of heated vapors	278,129	May 22	1975	543	23	1985
Griffin, George F., and C. W. Dixon, assignors to New England Patent Fire Escape Company, Boston, Mass. Line-carrying projectile	289,909	Dec. 11	674	188	25	1011
Griffin, George W., Franklin Falls, N. H. Handsaw	278,935	June 5	395	108	23	2190
Griffin, John H. (See Wallace and Griffin.)						
Griffin, John S., Cleveland, Ohio. Rolling-mill	282,718	Aug. 7	303	85, 86	24	552
Griffin, P. Henry, Detroit, Mich. Car-wheel-cleaning device	270,306	Jan. 9	567	166	23	121
Griffin, Stockton L. (See Bell, Samuel H., assignor.)						
Griffin, William W., Boston, Mass. Fire-escape	275,197	Apr. 3	405	111, 112	23	1296
Griffing, Abner A., Jersey City, N. J. Steam-radiator	273,066	Feb. 27	1873	526	23	789
Griffith, Alexander L., Beallsville, Ohio. Road grader and scraper	276,393	Apr. 24	1963	543	23	1586
Griffith, Hazael, and L. F. Ramsey, Terre Haute, Ind. Grain-meter	287,535	Oct. 30	2216	602	25	431

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Griffith, Peleg T., Danby, Vt. Hydraulic motor	290,039	Dec. 11	830	235	25	1040
Griffith, Thomas J. (See Lynch and Griffith.)						
Griffith, Thomas M., Arlington, N. J. Suspension-bridge	285,257	Sept. 18	1346	379, 380	24	1150
Griffith, William, assignor to himself and J. C. Gray, Pittsburg, Pa. Purifying molten iron	289,085	Nov. 27	1623	.....	25	814
Griffith, William, assignor to himself and J. C. Gray, Pittsburg, Pa. Purifying molten iron	289,086	Nov. 27	1624	.....	25	814
Griffith, William, assignor to himself and J. C. Gray, Pittsburg, Pa. Purifying molten iron	289,087	Nov. 27	1624	.....	25	814
Griffith, William, assignor to himself and J. C. Gray, Pittsburg, Pa. Purifying molten iron	289,088	Nov. 27	1625	.....	25	814
Griffith, William, assignor to himself and J. C. Gray, Pittsburg, Pa. Purifying molten iron	289,089	Nov. 27	1626	.....	25	814
Griffiths, Amos E., Philadelphia, Pa. Pulverizing apparatus	276,394	Apr. 24	1964	544	23	1586
Griffiths, Amos E., Philadelphia, Pa. Crushing and pulverizing apparatus	288,940	Nov. 20	1439	396	25	775
Griffiths, Morris W., Middle Granville, N. Y. Harrow	270,055	Jan. 2	267	77, 78	23	55
Griffiths, Thomas. (See Clapp and Griffiths.)						
Griffiths, William H., Somerville, Mass. Barrel-stave machine	273,274	Mar. 6	35	11	23	840
Griffiths, William J. (See Williams, Bennett, assignor.)						
Griggs, A. Irving, Westford, N. Y. Slop-jar mat	273,726	Mar. 13	619	166	23	947
Griggs, A. Irving, Westford, N. Y. Stove-board	279,240	June 12	778	214	23	2266
Griggs, George O., St. Louis, Mo. Lathe-rest	271,702	Feb. 6	139	38	23	464
Grigsby, Tyrrell L., Yountville, Cal. Gang-plow	287,536	Oct. 30	2219	602	25	431
Grill, Emil, *et al.* (See Groebl, H. William, assignor.)						
Grilley, Thomas M., assignor of one-half to G. W. Bocemsdes, West Haven, Conn. Folding knife and fork	288,174	Nov. 6	470	131	25	569
Grim, Charles M., Maple Park, Ill. Harvester	289,090	Nov. 27	1626	450	25	814
Grim, Joseph. (See Higgins and Grim.)						
Grimes, Andrew. (See Deeds, John B., assignor.)						
Grimes, Richard W., and J. Fern, Scranton, Pa. Miner's lamp	280,738	July 3	483	137	24	86
Grimm, Asmus H. (See Hien and Grimm.)						
Grimm, Paul H. (See Duryea and Grimm.)						
Grimm, Paul H., assignor of one-half to J. Duryea, Glen Cove, N. Y. Injector-blower	282,074	July 31	2190	601	24	405
Grimm, William G., Philadelphia, Pa. Handle for carrying bundles, &c	275,902	Apr. 17	1348	371	23	1473
Grimmett, Charles F., and J. Cook, Birmingham, county of Warwick, England. Cornice-pole and curtain-suspender	288,231	Nov. 13	545	150	25	612
Grimston, George S., Brockley Road, Brockley, county of Kent, England. Gas-burner apparatus	274,592	Mar. 27	1756	487	23	1158
Grinder, Alonzo, Altoona, Pa. Railway-switch stand	285,356	Sept. 18	1462	411	24	1170
Grinnell, Frederick. (See Delmage, Christopher L., assignor.)						
Grinnell, Frederick. (See Grinnell, Richard W. and F.)						
Grinnell, Frederick, Providence, R. I. Splice	277,478	May 15	1195	321	23	1845
Grinnell, Richard W. and F., Providence, R. I.; said Richard W. Grinnell assignor to said F. Grinnell. Locked joint	277,479	May 15	1196	321	23	1845
Grinnell, Richard W. and F., Providence, R. I.; said Richard W. Grinnell assignor to said F. Grinnell. Locked joint	277,480	May 15	1197	321	23	1845
Grinnell, Richard W. and F., Providence, R. I.; said Richard W. Grinnell assignor to said F. Grinnell. Automatic fire-extinguisher	277,481	May 15	1198	322	23	1845
Griscom, John P., Pottsville, Pa. Diamond-drill	272,681	Feb. 20	1381	388	23	696
Griscom, William M., *et al.* (See Rippien, Adolph, assignor.)						
Griscom, William M., Reading, Pa. Apple parer, corer, and slicer	270,585	Jan. 16	934	270	23	200
Grismore, George D. (See Ferguson, Grismore, and Wetherill.)						
Grist, Richard, and D. Patin, assignors of one-third to R. Grist, Philadelphia, Pa. Shoe	286,129	Oct. 2	430	117	25	79
Grist, Robert. (See Grist and Patin, assignors.)						
Grist, Thomas A., Cedar Rapids, Iowa. Automatic governor for steam-engines	277,710	May 15	1469	397	23	1890
Griswold, Albert F., Erie, Pa. Facing for saw-mill head-blocks	281,762	July 24	1798	491	24	332
Griswold, Alice L. B., Philadelphia, Pa. Adjustable pattern for garments	281,056	July 10	883	246	24	163
Griswold, Charles C., Chicago, Ill. Fire-escape	279,150	June 12	667	188	23	2251
Griswold, James B., Sedalia, Mo. Double-acting force-pump	276,172	Apr. 24	1675	463	23	1537
Griswold, John W., Troy, N. Y. Bale-tie	274,486	Mar. 27	1624	450	23	1136
Griswold, Lev. (See Holden and Griswold.)						
Griswold, Lewis F. (See Parker and Griswold.)						
Griswold, Lewis F., Meriden, and R. A. Wooding, Kensington, assignors to C. Parker Company, Meriden, Conn. Clamp for lamp-shades	276,030	Apr. 17	1498	412	23	1499
Griswold, Lewis F., and F. H. Chapman, assignors to C. Parker Company, Meriden, Conn. Extension-fixture for chandeliers	282,628	Aug. 7	186	54	24	532
Griswold, Matthew, and E. P. Selden, Erie, Pa.; said E. P. Selden, administrator of S. Selden, deceased. Waffle-iron	270,659	Jan. 16	1031	296	23	217
Griswold, Norris. (See Holloway and Griswold.)						
Griswold, Robert, Woodey, Kans. Hay and grain rack	279,938	June 26	1642	460	23	2425
Griswold, Robert, Woodey, Kans. Elevator for unloading and stacking hay and loose grain	279,939	June 26	1643	460	23	2425
Griswold, Robert, Woodey, Kans. Apparatus for unloading hay and grain	287,667	Oct. 30	2405	648	25	467
Griswold, Thaddeus M., Rochester, N. Y., assignor of one-half to J. P. E. Parker, Nashua, N. H. Whip	273,678	Mar. 6	565	150	23	930
Groble, James, Chicago, Ill. Broom-support	281,185	July 10	1048	290	24	192
Groebl, H. William, assignor to himself, J. Weissenbach, E. Grill, and F. Miller, Vincennes, Ind. Vertically-adjustable desk	281,494	July 17	1447	396	24	267
Groebli, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Embroidering-machine	283,707	Aug. 21	1489	419, 420, 421	24	783
Groesbeck, David, New York, N. Y. Ventilator	290,041	Dec. 11	832	235, 236	25	1040
Groesbeck, David, assignor to Groesbeck & Wright Spark Arrester Company, New York, N. Y. Spark-arrester for locomotives	270,423	Jan. 9	719	212	23	150
Groesbeck, David, J. A. Sterling, C. A. Ball, New York, N. Y., and D. P. Wright, Norwood, Mass., assignors to Groesbeck & Wright Spark Arrester Company, New York, N. Y. Spark-arrester	270,424	Jan. 9	723	213, 214	23	151
Groesbeck, David, assignor to Groesbeck & Wright Spark Arrester Company, New York, N. Y. Steam-boiler	284,415	Sept. 4	313	87	24	956
Groesbeck & Wright Spark Arrester Company. (See Groesbeck, David, assignor.)						
Groesbeck & Wright Spark Arrester Company. (See Groesbeck, Sterling, Ball, and Wright, assignors.						
Groff, Aaron B., and A. E. Strayer, assignors of one-third to O. C. Groff, Lilleyville, Pa. Car-coupling	289,529	Dec. 4	197	55	25	921

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Groff, Charles R., St. Paul, Minn. Preparing coffee compounds	270,787	Jan. 16	1192	344	23	248
Groff, Joseph G., Connersville, Ind. Saw-guard	277,711	May 15	1470	397	23	1890
Groff, Joseph G., Connersville, Ind. Saw-guard	278,130	May 22	1976	543	23	1985
Groff, Joseph G., Connersville, Ind. Saw-guard	284,199	Sept. 4	53	15	24	913
Groff, Oliver C. (See Groff and Strayer, assignors.)						
Grogan, James H., Rome, N. Y. Platform-spring	271,703	Feb. 6	139	39	23	464
Grogan, John. (See Clothier, Grogan, and McMullen.)						
Groh, John, Shanesville, Ohio. Thill-coupling	276,580	May 1	50	14	23	1636
Grom, Henry, assignor of one-half to J. Grom, Newark, N. J. Forming sheet-metal articles. (Reissue)	10,356	July 10	1104	304	24	202
Grom, John. (See Grom, Henry, assignor.) (Reissue.)						
Groom, Levi J., assignor of two-thirds to T. D. Stetson, New York, N. Y. Bath and wash tub	289,345	Nov. 27	1932	537	25	873
Groot, J. Bleecker, Albany, N. Y. Wire-bound box	281,264	July 17	1160	320	24	218
Gros, Adrien, and C. Salbreux, Dijon, France. Umbrella-hat	270,660	Jan. 16	1033	296	23	218
Gröschel, Anton. (See Küchenmeister, Gröschel, and Rauchenbichler.)						
Gross, Alexander P., San Francisco, Cal. Harness-coupling	274,487	Mar. 27	1625	451	23	1136
Gross, Alexander P., San Francisco, Cal. Dough-raiser	280,370	July 3	38	10	24	9
Gross, Charles L. (See Hildenbrand, George F., assignor.)						
Gross, Elam A., Camden, N. J. Railway-bridge indicator	289,770	Dec. 4	491	137	25	972
Gross, Frederick H., Deer Isle, Me. Sash-holder	275,903	Apr. 17	1349	371	23	1473
Gross, Henry, Tiffin, Ohio. Car-coupling	276,681	May 1	189	49	23	1656
Gross, John. (See Tait and Gross.)						
Gross, Magnus, New York, N. Y. Retort for making gas	277,270	May 8	944	253	23	1795
Gross, Magnus, New York, N. Y. Protecting superheating-pipes	278,537	May 29	2516	686	23	2088
Gross, Magnus, New York, N. Y. Steam-superheater	284,958	Sept. 11	979	275, 276	24	1079
Grossiord, Samuel, Moussières, France. Obtaining artificial precious stones	280,467	July 3	169	.....	24	31
Grossiord, Samuel, Les Moussières, France. Preparing precious and imitation precious stones	290,040	Dec. 11	831	.....	25	1040
Grossmann, Albert and E., New York, N. Y. Attachment to bridles	273,511	Mar. 6	340	92	23	892
Grossmann, Edward. (See Grossmann, Albert and E.)						
Grossmann, George. (See Asbury, Neider, and Grossmann.)						
Grote, Ernst A., Freudenberg, near Siegen, Prussia, Germany. Substitute for coffee	271,332	Jan. 30	1864	.....	23	376
Grotz, Charles, assignor to Garretson Ruffler Company, Oskaloosa, Iowa. Ruffling attachment for sewing-machines	272,427	Feb. 20	1064	300	23	641
Grotz, Charls, assignor to Ottumwa Iron Works, Ottumwa, Iowa. Machine for nicking screws	278,132	May 22	1960	543, 544	23	1986
Grout, Charles P., New York, N. Y., assignor to J. W. and J. C. White and H. M. Lewis, trustees, Philadelphia, Pa. Dental-engine hand-piece	277,126	May 8	778	204, 205	23	1765
Grout, Frank R., Chicago, Ill. Sizing for gilding on glass	282,629	Aug. 7	188	.....	24	533
Grout, Frank R., Chicago, Ill. Machine for spirally corrugating sheet-metal tubes	286,293	Oct. 9	654	174	25	129
Grout, William L. (See Hadley and Grout.)						
Grouven, Hubert, Leipsic, Saxony, Germany. Manufacture of strontium carbonate	280,172	June 26	1909	.....	23	2473
Grove, William H., and G. H. Steely, assignors of one-third to J. M. and T. J. Timmons and W. Scott, Circleville, Ohio. Straw-stacker	278,131	May 22	1978	543	23	1986
Grover, Albert P., Eureka, Wis. Combined seeder, harrow, and roller	286,427	Oct. 9	814	221	25	158
Grover, Benjamin P. (See Parker and Grover.)						
Grover, George A., Boston, and E. E. Worden, Somerville, Mass. Elevator-lock	287,668	Oct. 30	2406	648	25	467
Groves, Henry W., Indianapolis, Ind., assignor of one-half to Sinker, Davis & Company, of Indiana. Portable band saw mill	278,936	June 5	396	108, 109	23	2191
Groves, Leroy S., assignor of one-half to J. W. Shute, Afton, Iowa. Apparatus for generating and carbureting hydrogen gas	273,679	Mar. 6	566	150	23	930
Groves, Samuel D., Sacramento, Ky. Nut-lock	274,188	Mar. 20	1210	333	23	1058
Grow, Marquis D., Dubuque, Iowa. Turbine water-wheel	272,428	Feb. 20	1065	300	23	641
Gruaz, Timothy. (See Brun, Jean J. L., assignor.)						
Gruaz, Timothy, Highland, Ill. Combination-cipher	283,883	Aug. 28	1708	481	24	833
Grubb, William H., Hannibal, Mo. Buck-saw	290,042	Dec. 11	836	236	25	1040
Grube, Jefferson, Auburn, Ind., assignor to Newark Machine Company, Newark, Ohio. Seed-cleaner	271,839	Feb. 6	309	84	23	495
Gruber, John P., Jersey City, N. J. Vent or vent-bung	271,236	Jan. 30	1739	503	23	355
Gruber, John P., Jersey City, N. J. Faucet attachment	275,483	Apr. 10	815	220	23	1373
Grüdelbach, Paul, Berlin, assignor to Schaeffer & Budenberg, Buckau, near Magdeburg, Germany. Cut-off-valve gear	273,512	Mar. 6	342	92	23	892
Gruenebaum, Jacob, assignor of one-half to C. A. Hess, New York, N. Y. Flask or bottle	284,127	Aug. 28	2035	565	24	890
Grumbach, John E., Jersey City, N. J. Paper lantern	277,712	May 15	1471	397	23	1891
Grunder, Christian, and J. H. Moyer, Reading, Pa. Thill loop or tug	279,151	June 12	688	188	23	2251
Grunder, Christian, and J. H. Moyer, Reading, Pa. Roll made from leather disks	289,910	Dec. 11	676	188	25	1011
Grundy, Arthur, assignor to himself, H. A. Landgraff, and E. Tapscott, New York, N. Y. Freight-car	286,197	Oct. 9	512	141	25	105
Grunewald, Michael, *et al.* (See Kohler, Edward, assignor.)						
Gruninger, Jacob, San Francisco, Cal. Window sash and frame	273,355	Mar. 6	153	43	23	860
Grunzweig, Carl, and P. Hartmann, Ludwigshafen, Germany. Artificial cork	275,904	Apr. 17	1350	.....	23	1473
Gruson, Hermann. (See Preusser, Albin, assignor.)						
Gruson, Hermann, and R. Handrick, Buckau, near Magdeburg, Prussia, Germany. Regenerating exhaust	277,271	May 8	946	253, 254	23	1795
Gruson, Hermann, Buckau, Prussia, and A. Hellhoff, Mentz, Hesse, Germany. Explosive shell	287,924	Nov. 6	168	48	25	537
Gschwendtner, Georg, Cincinnati, Ohio. Fire-kindler	282,883	Aug. 7	488	137	24	586
Guelton, Richard, Brighton, county of Sussex, England. Producing artificial marble and rendering the same fire-proof and water-proof	290,417	Dec. 18	1299	.....	25	1132
Guerber, Frederick S., assignor to Union Switch and Signal Company, Pittsburg, Pa. Valvular apparatus	273,680	Mar. 6	567	150	23	931
Guernsey, Jane M. (See Beals, Ebenezer, assignor.)						
Guernsey, Jane M. (See Guernsey, William B., assignor.)						
Guernsey, William B., assignor to J. M. Guernsey, Norwich, N. Y. Automatic stop for draw-bar brakes	288,568	Nov. 13	976	269	25	686
Guernsey, William B., assignor to J. M. Guernsey, Norwich, N. Y. Automatic car-brake	288,569	Nov. 13	978	269	25	686
Guernsey, William B., Norwich, N. Y., assignor, by mesne assignments, to Torrey Automatic Brake Company, of New York. Automatic car-brake	289,091	Nov. 27	1628	451	25	815
Guernsey, William B., Norwich, and W. B. Turner, New York, N. Y., assignors of one-third to Torrey Automatic Brake Company, of New York. Locomotive or car brake	278,429	May 29	2387	651	23	2065
Guernsey, William J., Philadelphia, Pa. Transposing key-board for musical instruments	276,682	May 1	192	49	23	1657

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Guest, James A., Burlington, Iowa. Desk	270,895	Jan. 23	1321	381	23	278
Guest, James A., Burlington, Iowa. Store-shelving	274,488	Mar. 27	1626	451	23	1136
Guest, John H., Brooklyn, N. Y. Electric arc lamp	279,152	June 12	689	189	23	2251
Guest, John H., Brooklyn, N. Y. Manufacture of incandescent electric lamps	282,884	Aug. 7	489	137 / 138	24	587
Guignon, Ernest E. (See Guignon, Lawrence E. and E. E.)						
Guignon, Lawrence E. and E. E., Corry, Pa. Barrel-pump	286,428	Oct. 9	815	221	25	158
Guild & Garrison. (See Garrison, William F., assignor.)						
Guild & Garrison. (See Guild, William H., assignor.)						
Guild, William H., assignor to Guild & Garrison, Brooklyn, N. Y. Pump-valve	276,805	May 1	351	94	23	1687
Guild, William H., assignor to Guild & Garrison, Brooklyn, N. Y. Duplex direct-acting engine	278,133	May 22	1982	544	23	1986
Guillaume, Henri, Washington, D. C. Sleeping-car	284,733	Sept. 11	710	199	24	1031
Guilliouma, Francis, New Baltimore, Ohio. Liniment	284,629	Sept. 11	575	.....	24	1008
Guilloz, John F. (See Jeanjaquet, F. Eugène, assignor.)						
Guldayer, Louis, *et al.* (See Dutton, George W., assignor.)						
Gulden, Charles, New York, N. Y. Cap for mustard-bottles	271,237	Jan. 30	1740	503	23	355
Gulden, Jacob, New York, N. Y. Mustard-bottle stopper	276,683	May 1	193	49	23	1657
Gulick, Frank S., Bolivar, N. Y. Stove-pipe holder	285,748	Sept. 25	1951	551	24	1264
Gump, Alexander, assignor of one-half to J. Kindle, Fletcher, Ohio. Transporting frame and wheel for harvesters	276,581	May 1	51	14	23	1635
Gumpper, Jacob J., *et al.* (See Pfautz, Daniel M., assignor.)						
Gunckel, Winfield O., assignor of two-thirds to H. C. McKeen and J. D. Kefuss, Terre Haute, Ind. Separator	282,719	Aug. 7	305	86	24	553
Gunckel, Winfield O., assignor of two-thirds to H. C. McKeen and J. D. Kefuss, Terre Haute, Ind. Roller-feed mechanism	282,720	Aug. 7	307	87	24	553
Gund, Fred, *et al.* (See Held, August S., assignor.)						
Gund, Fred, *et al.* (See Tobias, Cyrus, assignor.)						
Gunderson, Albert, Shabbona, assignor to A. M. Munson, Lee, Ill. Apparatus for reeling and unreeling barbed fence-wire	283,824	Aug. 28	1710	482	24	833
Gunderson, Albert, Shabbona, Ill., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass., and I. L. Ellwood, De Kalb, Ill. Barbed-wire fence	286,130	Oct. 2	430	117	25	80
Gunn, George P. (See Haviland and Gunn.)						
Gunn, John C., Knoxville, Tenn. Lamp-chimney	274,489	Mar. 27	1628	451	23	1136
Gunn, John C., Knoxville, Tenn. Reel for flying kites	274,490	Mar. 27	1629	451	23	1136
Gunn, Martha E. (See Bridges, Mary J., assignor.)						
Gunn, Sarah A. (See Diebel, William, assignor.)						
Gunsight Consolidated Silver Mining Company of Arizona. (See McCully, Robert, assignor.)						
Gunther, George A., Brooklyn, N. Y. Device for depositing torpedoes in snow-banks	275,039	Apr. 3	208	56	23	1261
Gunther, George A., New Utrecht, N. Y. Snow-plow	276,395	Apr. 24	1965	544	23	1586
Gunther, George A., New Utrecht, N. Y. Depositing torpedoes in snow-banks	281,495	July 17	1448	396	24	267
Gunther, George A., New Utrecht, N. Y. Snow-plow	281,496	July 17	1449	396	24	267
Gunther, George A., New Utrecht, assignor of one-third to H. Kierstein, Brooklyn, N. Y. Snow-plow	281,497	July 17	1450	397	24	268
Günther Julius, Quincy, Ill. Starch	276,806	May 1	352	.....	23	1688
Gurley, Emily F. (See Shelby, Christopher C., assignor.)						
Gurley, Lewis E. (See Gurley, William and L. E.)						
Gurley, William and L. E., Troy, N. Y. Leveling-instrument	286,606	Oct. 16	1037	281	25	204
Gurley, William, assignor to himself and L. E. Gurley, Troy, N. Y. Leveling-rod	287,021	Oct. 23	1574	424	25	304
Gurney, Henry W., East Nodaway, Iowa. Motor	272,429	Feb. 20	1067	300	23	641
Gurney, J. Theodore, Boston, Mass. Running-gear for vehicles	272,238	Feb. 13	810	225 / 226	23	583
Gurney, J. Theodore, Boston, Mass. Harness-saddle	280,739	July 3	485	137	24	86
Gurney, John H., *et al.* (See Wright, Noah D., assignor.)						
Gurney, Thomas C. (See Martin, Gaylord, assignor.)						
Guscott, Stephen J., Chicago, Ill. Device for stacking railway-rails, lumber, &c	275,763	Apr. 10	1173	321 / 322	23	1434
Gustin, George A. (See Story, Ephraim J., assignor.)						
Guth, Henry, New York, N. Y. Ventilating-valve for fermenting-casks	275,764	Apr. 10	1175	322	23	1435
Guthrie, Frank A., Gallipolis, Ohio. Lock	283,776	Aug. 28	1586	448	24	813
Guthrie, Ossian, Chicago, Ill. Facilitating the congelation of water, &c. (Reissue)	10,283	Feb. 6	531	142	23	532
Guthrie, Ossian, Chicago, Ill. Aiding the formation of atmospheric or natural ice	277,024	May 8	646	.....	23	1742
Gutmann, Emil, *et al.* (See Martinez, Rafael, assignor.)						
Gwathmey, Richard R., Memphis, Tenn. Cotton-gin	278,134	May 22	1983	544 / 545	23	1967
Gwyn, Walter B., Asheville, N. C. Billiard-cue trimmer	284,548	Sept. 4	470	133	24	984
Gyles, James F., Chicago, Ill. Automatic car-stove-fire extinguisher	277,127	May 8	780	205	23	1765
Gyles, James F., Chicago, Ill. Automatic car-stove-fire extinguisher	278,236	May 22	2111	562	23	2009
Gysin, Martin, and E. Huber, New York, N. Y. Shoe horn and jack	271,704	Feb. 6	141	39	23	464
Haacker, John G., New York, N. Y. Cut-off valve	282,630	Aug. 7	189	55	24	533
Haag, Johannes, Augsburg, Bavaria, Germany. Steam and hot-water radiator	287,122	Oct. 23	1700	465	25	328
Haak, Henry, Myerstown, Pa. Milk-strainer	282,189	July 31	2355	649	24	430
Haar, Henry M. (See Poznanski, Joseph, assignor.)						
Haas, Christian, Chicago, Ill. Carriage-seat	272,381	Feb. 13	995	277	23	624
Haas, Edwin, Philadelphia, Pa. Bottle stopper and fastener	273,356	Mar. 6	154	44	23	860
Haas, Edwin, Philadelphia, Pa. Printing-cylinder	278,937	June 5	398	109	23	2191
Haas, Edwin, Philadelphia, Pa. Stopper-fastening	284,200	Sept. 4	55	15	24	914
Haas, Henry, New York, N. Y. Pedal for musical instruments	290,043	Dec. 11	836	236	25	1040
Haas, James M., Wabash, Ind. Tongue-support	278,938	June 5	399	109	23	2191
Haas, Levi, Chester, Pa. Construction of houses	274,315	Mar. 20	1376	378	23	1096
Haas, Levi, Chester, Pa. Culinary utensil	278,939	June 5	399	110	23	2191
Haas, Levi, Chester, Pa. Railway chair and tie	282,309	July 31	2497	686	24	455
Haas, Levi, Chester, Pa. Door sill and step	290,878	Dec. 25	1916	529	25	1245
Haas, Samuel H., Chicago, Ill. Cuff	284,839	Sept. 11	837	234	24	1053
Haas, William, New York, N. Y. Stuffing-box for valve-stems, &c	275,484	Apr. 10	816	221	23	1374
Haase, John A., Philadelphia, Pa. Ratchet-drill	286,294	Oct. 9	656	174	25	129
Habberkorn, Christian H. (See Garretson, Albert D., assignor.)						
Habegger, Johann, St. Louis, Mo. Baby-walker	282,960	Aug. 14	593	168	24	613
Haber, Maximilian F. (See Metcalfe and Haber.)						
Haberman, Frederick, New York, N. Y. Cuspidor-mat	272,239	Feb. 13	813	226	23	593
Hack, Emily F. (See Hack, Henry S., assignor.)						
Hack, Henry S., Taunton, Mass. Calendar	287,022	Oct. 23	1576	434	25	304
Hack, Henry S., assignor, by mesne assignments, to E. F. Hack, Taunton, Mass. Calendar	288,329	Nov. 13	677	186	25	632

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hackenberg, Julius, Hoboken, N. J., assignor to C. H. Graef, Edgewater, N. Y. Bracelet.	282,310	July 31	2498	686	24	456
Hacket, Theodore N., Emporium, Pa. Saw-arbor	271,840	Feb. 6	310	85	23	495
Hackett, Allen, La Grange, Me. Saw-guide	286,295	Oct. 9	657	175	25	129
Hackett, Allen, La Grange, Me. Saw-guide	286,296	Oct. 9	657	175	25	129
Hackett, Allen, La Grange, Me. Coupling-link for railway-cars	289,530	Dec. 4	197	56	25	921
Hackett, Jonathan W. (See Park and Hackett.)						
Hackett, William H., New York, N. Y. Combined cuff-holder and sleeve-button	272,240	Feb. 13	814	226	23	593
Hackstadt, George H. A., Ludlow, Ky. Spoke-tenoning machine	282,515	Aug. 7	45	14	24	508
Hackstadt, George W., Covington, Ky., assignor to C. F. Bradley & Co., Cincinnati, Ohio. Book-cover	289,647	Dec. 4	342	96	25	947
Hadden, Walter J., New York, and J. S. Wood, Brooklyn, N. Y. Disinfecting apparatus	279,644	June 19	1284	357	23	2357
Hadden, William, Brooklyn, N. Y. Apparatus for distributing powders upon surfaces	269,850	Jan. 2	38	12	23	10
Hadden, William, Brooklyn, assignor to American Railway Signal Company, New York, N. Y. Railway-signal	273,513	Mar. 6	343	93	23	893
Hadden, William, Brooklyn, assignor to American Railway Signal Company, New York, N. Y. Railway-signal	273,514	Mar. 6	346	93	23	893
Hadden, William, Brooklyn, assignor to American Railway Signal Company, New York, N. Y. Railway signal apparatus	273,515	Mar. 6	349	93	23	893
Hadden, William, Brooklyn, assignor to American Railway Signal Company, New York, N. Y. Railway signal apparatus	273,516	Mar. 6	351	93	23	894
Hadden, William, Brooklyn, assignor to American Railway Signal Company, New York, N. Y. Railway signal apparatus	273,517	Mar. 6	354	94	23	894
Hadden, William, Brooklyn, assignor to American Railway Signal Company, New York, N. Y. Electric railway-signal	278,940	June 5	400	110	23	2191
Haddock, Worcester, assignor to National Cable Power Company, Cincinnati, Ohio. Cable street-railway	275,378	Apr. 10	672	179	23	1349
Haddock, Worcester, assignor to National Cable Power Company, Cincinnati, Ohio. Gripping attachment for cable-railways	275,379	Apr. 10	676	180	23	1350
Hadley, Benjamin H., Providence, R. I. Surface-grinding table for emery-wheels	280,033	June 26	1761	494	23	2445
Hadley, Charles F. (See Overman and Hadley.)						
Hadley, George A. (See Moore and Hadley.)						
Hadley, George G., *et al.* (See Houlehan, James, assignor.)						
Hadley, George W., assignor of one-half to T. C. Page, Chicopee Falls, Mass. Breech-loading gun	275,377	Apr. 10	669	179	23	1348
Hadley, Horace W., and W. L. Grout, Orange, Mass. Mechanical movement	277,025	May 8	647	168	23	1742
Hadley Manufacturing Company. (See Turner, William H., assignor.)						
Hadlock, Samuel, Port Townsend, Wash. Ter. Nippers for pile-drivers	274,189	Mar. 20	1211	333	23	1058
Hadra, Edward, Cumberland, Md. Cigar coloring and flavoring machine	275,646	Apr. 10	1023	276	23	1409
Haehulen, William, assignor to F. J. L. Blandy, Zanesville, Ohio. Steam-actuated valve	279,378	June 12	970	269	23	2296
Hafely, Alfred C., New York, N. Y. Book-clasp	287,123	Oct. 23	1700	465	25	328
Haff, Edward P., Brooklyn, N. Y. Razor-strop	272,042	Feb. 13	569	154	23	551
Haff, Edward P., Brooklyn, N. Y. Hair-pin package	276,031	Apr. 17	1500	412	23	1499
Hafgar, Magnus J., Chicago, Ill. Folding desk	271,061	Jan. 23	1523	440	23	310
Hafgar, Magnus J., Chicago, Ill. Desk	281,498	July 17	1451	397, 398	24	268
Hagan, Elijah J., Willow township, Greene county, Iowa. Sulky check-row corn-planter	279,241	June 12	779	215	23	2266
Hagan, John A., assignor of one-half to Sheffield Velocipede Car Company, Three Rivers, Mich. Grain-car-door mechanism	285,258	Sept. 18	1349	380	24	1151
Hagan, Levi A., Jacksonville, Ill. Device for copying and enlarging pictures	275,822	Apr. 17	1253	344	23	1455
Hagan, William E., assignor of one-half to W. C. Buell, Troy, N. Y. Implement for setting button-fastenings	290,680	Dec. 25	1659	458	25	1199
Hagedorn, Frederick, San Francisco, Cal. Manufacture of mattress-stuffing	289,409	Dec. 4	43	.....	25	894
Hagelberg, Wolff, Berlin, Germany, assignor to Kaufmann & Strauss, New York, N. Y. Card-support	278,941	June 5	400	110	23	2192
Hagemann, Heinrich, Vienna, Austria-Hungary. Stereotyping-machine	270,056	Jan. 2	268	78, 79	23	55
Hagerstown Steam Engine and Machine Company. (See Watkins, Luther M., assignor.)						
Hagerty, James S., Baltimore, Md. Kitchen-safe	290,879	Dec. 25	1917	529	25	1246
Hagstoz, Thomas B., *et al.* (See Grace, Harry R., assignor.)						
Hagstoz, Thomas B., *et al.* (See Mueller, Theodore, assignor.)						
Hague, Charles A., assignor to Furst & Bradley Manufacturing Company, Chicago, Ill. Sulky-plow	283,102	Aug. 14	752	212	24	640
Hahn, Charles F. C., assignor of one-half to J. Simon, Toledo, Ohio. Cot-bed	290,418	Dec. 18	1308	364	25	1132
Hahn, John, Reading, Pa. Stove-grate	287,537	Oct. 30	2220	602	25	432
Haid, Alfred, Rahway, N. J. Galvanic-battery	286,809	Oct. 16	1292	350	25	249
Haid, Alfred, Rahway, N. J., assignor to Edison Electric Light Company, New York, N. Y. Secondary battery	271,628	Feb. 6	58	16	23	450
Haigh, Joseph P., assignor to J. G. Holmes, Pittsburg, Pa. Pipe-wrench	272,955	Feb. 27	1746	488	23	766
Haight, Charles L. (See Brown and Haight.)						
Haight, E. J., *et al.* (See Bedbury, George W., assignor.)						
Haight, Edward A., Shalersville, and D. Williams, Cleveland, Ohio. Bed-bottom	272,956	Feb. 27	1747	488	23	766
Haight, Elias H., Rockford, Ill. Neck-yoke	278,703	June 5	37	11	23	2131
Haight, Henry J., New York, N. Y. Poultry-coop	270,307	Jan. 9	568	167	23	121
Haight, Henry J., New York, N. Y. Poultry-coop	280,815	July 10	597	167	24	113
Haight, J. J., *et al.* (See Duncan and Evens, assignors.)						
Haight, John B., Cincinnati, Ohio. Cylinder-cock for engines	279,562	June 19	1192	330	23	2340
Haigis, John M., Beaver Falls, Pa. Grinding-machine	286,429	Oct. 9	816	221, 222	25	159
Hailes, William, Albany, N. Y. Broiler	284,295	Sept. 4	172	49	24	933
Haines, Dudley W., and A. D Hankerson, Readfield, Me. Car-coupling	270,057	Jan. 2	272	79	23	56
Haines, Frank P., Camden, N. J., assignor, by mesne assignments, to Williams Manufacturing Company, Northampton, Mass. Fruit-shipping and truck basket	288,429	Nov. 13	813	220	25	657
Haines, Horace G., *et al.* (See Perkins, John C., assignor.)						
Haines, Joseph T., Balbec, Ind. Portable elevator	275,647	Apr. 10	1025	277	23	1409
Hainsworth, Frederick, Chicago, Ill. Apparatus for ventilating water-closets. (Reissue)	10,346	June 26	2122	590	23	2510
Hainsworth, William, Pittsburg, Pa. Preparing steel ingots for rolling	272,682	Feb. 20	1381	388	23	697
Hainsworth, William, Pittsburg, Pa. Bessemer plant	272,683	Feb. 20	1383	389	23	697
Hainsworth, William, Pittsburg, Pa. Making steel castings	284,004	Aug. 28	1881	528	24	863
Hainsworth, William, Pittsburg, Pa. Bessemer plant	284,005	Aug. 28	1882	528	24	864
Hainsworth, William, Pittsburg, Pa. Manufacturing steel	284,006	Aug. 28	1886	528	24	864
Hair, Charles N. (See Genin, John B., assignor.)						
Hake, Francis A., Cuero, Tex. Thill-carrier for harness	273,983	Mar. 13	947	261	23	1004
Hake, Francis A., Cuero, Tex. Horse-collar	282,721	Aug. 7	308	87	24	553
Hake, Philipp, Hoboken, N. J. Ornamenting paper and cards	285,482	Sept. 25	1617	454	24	1204

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hake, Philipp, Hoboken, N. J., and G. A. Raisbeck, Brooklyn, N. Y. Ornamenting writing-paper, envelopes, &c	270,586	Jan. 16	935	271	23	201
Haldeman, John H., Westfield, Mass. Apparatus for opening dampers	279,867	June 19	1545	432	23	2402
Hale, Charles O. (See Du Bois, William A., assignor.)						
Hale, Elias J., Foxcroft, Me. Burner for lamps	285,028	Sept. 18	1082	302	24	1103
Hale, Elias J., Foxcroft, Me. Burner for lamps	285,029	Sept. 18	1083	303	24	1103
Hale, Elias J., Foxcroft, Me. Burner for lamps	288,232	Nov. 13	546	151	25	612
Hale, Henry S., Philadelphia, Pa. Seat	271,062	Jan. 23	1525	441	23	311
Hale, Henry S., Philadelphia, Pa. Chair	275,823	Apr. 17	1254	345	23	1456
Hale, Henry S., Philadelphia, Pa. Chair	277,272	May 8	947	254	23	1795
Hale, Henry S., Philadelphia, Pa. Wardrobe-bed	277,566	May 15	1302	350	23	1861
Hale, Henry S., Philadelphia, Pa. Seat	280,740	July 3	486	137, 138	24	86
Hale, Henry S., Philadelphia, Pa. Sleeping-car	285,890	Oct. 2	141	40, 41	25	28
Hale, Henry S., Philadelphia, Pa. Sleeping-car	289,346	Nov. 27	1934	537	25	873
Hale, William C., Austin's Springs, Tenn. Millstone-balance	277,273	May 8	948	254	23	1796
Hale, William C., Austin's Springs, Tenn. Millstone-driver	285,613	Sept. 25	1776	503	24	1234
Hale, William E. (See Baldwin, Cyrus W., assignor.)						
Hale, William F., Jamestown, N. Y. Fruit-drier	281,057	July 10	884	246	24	164
Haley, Charles H. (See Haley, George S. and C. H.)						
Haley, Eben D. (See Rundlett, Charles, assignor.)						
Haley, George S. and C. H., assignors to United States Wind Engine and Pump Company, Batavia, Ill. Sheave-case	282,454	July 31	2689	738	24	489
Haley, John J., Newton, Mass. Manufacture of belting	271,629	Feb. 6	59	16	23	450
Haley, John J., Newton, Mass. Manufacture of belting	271,630	Feb. 6	60	17	23	450
Haley, Thomas, Cambridge, Mass. Nozzle for hose-pipes	278,008	May 22	1827	499	23	1959
Halfpenny, Martin, Pontiac, Mich. Two-wheeled vehicle	277,482	May 15	1200	322	23	1845
Halfpenny, Martin, Pontiac, Mich. Gear for platform-wagons	282,455	July 31	2690	738, 739	24	489
Halkyard, William. (See Field and Halkyard.) (Reissue.)						
Halkyard, William, assignor of one-half to H. A. Church, Providence, R. I. Machine for covering electric wire	278,009	May 22	1829	499	23	1960
Halkyard, William, assignor of one-half to H. A. Church, Providence, R. I. Machine for covering wire	281,186	July 10	1048	290	24	192
Halkyard, William, assignor of one-half to H. A. Church, Providence, R. I. Electric wire	284,959	Sept. 11	960	276	24	1079
Halkyard, William, assignor of one-half to H. A. Church, Providence, R. I. Electric cable	289,092	Nov. 27	1632	451	25	815
Hall, Albert, Cypress Hill, N. Y. Button-fastening	274,316	Mar. 20	1377	378	23	1086
Hall, Albert, Cypress Hill, N. Y. Button-fastening machine	280,921	Oct. 16	1436	395	25	274
Hall, Albert E. and M. W., Plainfield, N. J. Pumping-engine	289,648	Dec. 4	342	97	25	948
Hall, Almon, assignor of one-half to H. T. Stock, Toledo, Ohio. Machine for unloading railway-cars	279,868	June 19	1546	432	23	2402
Hall, Alvah W., Meriden, Conn. Electric railway-signal	276,807	May 1	353	94	23	1688
Hall, Alvah W., Meriden, Conn. Double-circuit instrument	284,840	Sept. 11	838	234	24	1053
Hall, Alvah W., Meriden, Conn. Electric switch and signal apparatus	284,841	Sept. 11	839	235, 236	24	1053
Hall, Alvah W., Meriden, Conn. Apparatus for interlocking electric signals	284,842	Sept. 11	842	236, 237	24	1053
Hall, Asa, assignor to N. C. Thompson, Rockford, Ill. Cultivator	282,885	Aug. 7	491	138	24	567
Hall, Augustus O., *et al.* (See Gowan, James H., assignor.)						
Hall, Benjamin F., assignor of one-third to S. B. Carr, Lansing, Mich. Metallic pivot for window-blind slats	279,379	June 12	971	269	23	2297
Hall, Benjamin J., and J. E. Mustard, Glen Hall, Ind. Cultivator	284,734	Sept. 11	712	199	24	1031
Hall & Bidwell. (See Glenn, George K., assignor.)						
Hall & Brown. (See McChesney, Reuben, assignor.)						
Hall, Charles A. (See Blake and Hall.)						
Hall, Charles H., assignor of one-half to R. P. Pattison, Chicago, Ill. Lozenge-machine	273,518	Mar. 6	357	94, 95	23	805
Hall, Charles N. (See Murphy, John, assignor.)						
Hall, Charles S. (See Watson and Hall.)						
Hall, Charles S. (See Watson, Hall, and Bauer.)						
Hall, Charles S., C. M. Whitcomb, and W. J. D'Ewart, Worcester, Mass. Process of and apparatus for annealing and cleaning and galvanizing or plating wire continuously	286,538	Oct. 9	944	254	25	182
Hall, Cyrus J., Belfast, Me. Windlass	282,075	July 31	2191	602	24	406
Hall, Daniel. (See Doughty and Hall.)						
Hall, David S., Stoughton, Mass. Carriage-axle nut	286,131	Oct. 2	431	117	25	80
Hall, Dyer P., assignor to E. G. and E. Wallace, Rochester, N. H. Cutter-head	284,630	Sept. 11	575	162	24	1008
Hall, Edward, assignor of one-half to C. E. Sage, Elkhart, Ind. Bit	287,538	Oct. 30	2221	603	25	432
Hall, Edward C., assignor of one-half to F. E. Cady, Auburn, N. Y. Combined water filter and cooler	276,533	Apr. 24	2132	593	23	1615
Hall, Edward J. (See Heylmun, John W., assignor.)						
Hall, Edward J., Buffalo, N. Y. Feed-water heater for steam-boilers	272,684	Feb. 20	1386	389	23	697
Hall, Edwin J., Waltham, Mass. Mechanism for timing watch-balances	288,233	Nov. 13	547	151	25	612
Hall, Edwin L., Deaverton, Ohio. Hay elevator and carrier	274,317	Mar. 20	1377	378	23	1086
Hall, Francis L., Oneida, N. Y. Brick-kiln	287,432	Oct. 30	2090	567, 568	25	405
Hall, Frank W., Dahlonega, Ga. Stamp-mill	276,582	May 1	52	15	23	1636
Hall, Frederick S. (See Urie, Thomas, assignor.)						
Hall, George. (See Elliott, William V., assignor.)						
Hall, George A., South Waterford, Me. Railway-gate	282,631	Aug. 7	191	55, 56	24	533
Hall, George A., Waterford, and G. S. Fogg, Westbrook, Me.; said Fogg assignor to said Hall. Railway-gate	280,307	June 26	2080	586	23	2503
Hall, George W., Nora Springs, Iowa. Ointment	279,940	June 26	1643	.....	23	2425
Hall, George W., Nora Springs, Iowa. Trace-support	284,843	Sept. 11	843	237	24	1054
Hall, George W., Nora Springs, Iowa. Trace-holding attachment for hame-clips	287,826	Nov. 6	45	13	25	515
Hall, Harvey C., Brooklyn, N. Y. Pump	274,760	Mar. 27	1949	542	23	1194
Hall, Hayden H., New Hamburg, N. Y. Gas and coke kiln	287,433	Oct. 30	2091	568	25	406
Hall, Henry D., New York, N. Y. Ozone apparatus	282,190	July 31	2357	649	24	430
Hall, Henry G., Fayetteville, N. C. Bran or flour packer	279,746	June 19	1401	391	23	2377
Hall, Henry M., assignor to T. G. Lovegrove, Philadelphia, Pa. Handle for steam and other valves	290,575	Dec. 18	1527	421	25	1171
Hall, Hiram S., Jamestown, N. Y. Furniture-leg fastening	270,661	Jan. 16	1034	297	23	218
Hall, Hiram S., Jamestown, N. Y. Machine for making spiral wire springs	287,827	Nov. 6	45	13, 14	25	515
Hall, Horace M., Taunton, Mass. Hub-attaching device	278,942	June 5	401	110	23	2192
Hall, Howard A., Sturgis, Mich. Check-valve	283,777	Aug. 28	1587	448	24	812

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hall, J. E. (See Huyck, Francis P., assignor.)						
Hall, John, Watertown, Mass. Adjustable dress-form	269,851	Jan. 2	40	13	23	10
Hall, John C., and C. A. Mahle, Corry, Pa. Brush-block-boring machine	284,128	Aug. 28	2035	566	24	890
Hall, Joseph, and L. St. André, Clear Lake, Wis. Saw-handle	277,026	May 8	648	168	23	1742
Hall, Joseph L. (See Kock, Wilhelm, assignor.)						
Hall, Kennedy, Hurricane, Ark. Cotton-planter	275,380	Apr. 10	679	190	23	1350
Hall, Le Vant O., Buchanan, Mich. Piston-packing	287,669	Oct. 30	2407	649	25	468
Hall, Lewis, Metamora, assignor of one-fourth to A. G. Scherer, Peoria, Ill. Traction-wheel	270,662	Jan. 16	1035	297	23	218
Hall, Milan W. (See Hall, Albert E. and M. W.)						
Hall, Moses L., Osborn, Ohio. Bridle-blind	281,359	July 17	1276	354	24	238
Hall, O. F. (See Pagel, J. C. Friedrich, assignor.)						
Hall, Oliver S., Marion Iowa. Music-leaf turner	286,297	Oct. 9	658	175	25	129
Hall, Osborn B. (See Walworth and Hall.)						
Hall, Osborn B., Jr., Malden, Mass. Gas-burner	284,631	Sept. 11	577	182	24	1008
Hall, Philip A. (See Ebbert, John, assignor.)						
Hall, R. H. (See Butler, William J., assignor.)						
Hall, Reuben D., New Hampton, Mo. Cultivator	289,093	Nov. 27	1632	451, 452	25	815
Hall, Robert A. (See Rueckert and Hall.)						
Hall, Samuel E. (See Cornish and Hall.)						
Hall, Samuel G., Cohoes, N. Y. Burr for knitting-machines	275,198	Apr. 3	406	112	23	1296
Hall, Samuel G., Cohoes, N. Y. Burr for knitting-machines	275,199	Apr. 3	407	112	23	1296
Hall, Samuel S. (See Hobson, James, assignor.)						
Hall, Samuel S., and J. Walmsley, Bury, near Manchester, England. Warping and beaming machine	284,416	Sept. 4	316	87, 88	24	956
Hall Southern Cotton Gin Company, S. Z. (See Coleman, William O., assignor.)						
Hall, Thomas, and J. Newton, Lawrence, Mass., assignors to said Hall. Cap spinning frame	284,549	Sept. 4	471	134	24	984
Hall, Thomas G., Brooklyn, assignor to I. N. Cook and S. B. McLane, Yonkers, N. Y. Tool for grasping and holding articles	275,335	Apr. 3	593	159	23	1327
Hall, Thomas H. (See De Quillfeldt, Charles, assignor.)						
Hall, Thomas P. (See Kennedy and Hall.)						
Hall, William A. (See Leslie and Hall.)						
Hall, William B., Lancaster, Pa. Breech-loading fire-arm	276,808	May 1	355	95	23	1688
Hall, William D. (See Morse, Theodore W., assignor.)						
Hall, William F., Boston, Mass. Door-knob attachment	278,704	June 5	38	11	23	2131
Hall, William F., and P. G. Hubert, New York, N. Y. Elevator	276,396	Apr. 24	1966	544	23	1587
Hall, William H., London, England. Toy locomotive-engine	281,360	July 17	1276	354	24	238
Hall, William L., Troy, N. Y. Shirt	270,663	Jan. 16	1036	297	23	219
Hall, William L., Troy, N. Y. Shirt	276,809	May 1	357	95	23	1689
Hall, William P., Piqua, Ohio. Smoke-consuming device	283,600	Aug. 21	1363	381	24	759
Hall, William P., Piqua, Ohio. Boiler-furnace	283,708	Aug. 21	1495	421	24	784
Hall Zachary T., Philadelphia, Pa. Price-tag	286,430	Oct. 9	818	222	25	159
Hallas, James G., assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Drawer-pull	289,251	Nov. 27	1817	502	25	850
Hallenbeck, Joseph P., New York, assignor to National Machine Company, Troy, N. Y. Button-hole attachment for sewing-machines	273,727	Mar. 13	620	167, 168	23	948
Hallenbeck, Joseph P., New York, assignor to National Machine Company, Troy, N. Y. Button-hole attachment for sewing-machines	275,200	Apr. 3	409	112, 113	23	1296
Hallenbeck, Joseph P., New York, assignor, by mesne assignments, to National Machine Company, Troy, N. Y. Button-hole attachment for sewing-machines	277,128	May 8	784	206	23	1766
Hallenbeck, Martin, Albany, N. Y. Horse hay-rake	278,538	May 29	2516	687	23	2088
Haller, Augustine, *et al.* (See Beck, John B., assignor.)						
Haller, Martin. (See Sauser and Haller.)						
Hallett, James, Hannibal, Mo., assignor of one-half to D. W. Morgan, Pittsfield, Ill. Detachable step for farm-wagons	272,543	Feb. 20	1205	337	23	666
Hallett, William R., assignor of one-half to W. Heffington, Batchtown, Ill. Plaiting-machine	285,030	Sept. 18	1064	303	24	1104
Halley, Samuel D., assignor of one-half to C. H. Alapaw, St Louis, Mo. Hinge	270,880	Jan. 16	1295	373	23	267
Hallheimer, Max, Brooklyn, N. Y. Mechanical movement	279,941	June 26	1644	461	23	2425
Halliday, Edgar. (See Rau, Eugen, assignor.)						
Halliday, Frank E., Geigersville, Ky. Clamp for books	289,252	Nov. 27	1817	502	25	850
Hallidie, Andrew S., San Francisco, Cal. Cable-railway	276,239	Apr. 24	1758	489	23	1552
Hallidie, Andrew S., San Francisco, Cal. Traveling-bag	276,240	Apr. 24	1759	490	23	1552
Hallidie, Andrew S., San Francisco, Cal. Battery-screen	284,735	Sept. 11	713	199	24	1031
Halligan, Harvey, and H. Rugg, assignors to New Haven Copper Company, Seymour, Conn. Auger	278,539	May 29	2518	687	23	2089
Halliwell, Jane. (See Sackett, Joseph S., assignor.)						
Hallock Damper Regulator Company. (See Hallock, Valentine H., assignor.)						
Hallock, John J., Liverpool, N. Y. Wicker basket	282,516	Aug. 7	48	14	24	508
Hallock, John K. (See Spaulding and Hallock.)						
Hallock, John K., *et al.* (See Spaulding, Elijah F., assignor.)						
Hallock, John K., and E. F. Spaulding, assignors of one-third to E. S. Smith, Erie, Pa. Cut-off-valve gear	281,312	July 17	1214	336, 337	24	228
Hallock, Valentine H., Queens, assignor to Hallock Damper Regulator Company, Brooklyn, N. Y. Damper-regulator for steam-boilers	276,810	May 1	359	95	23	1689
Hallowell, Albert, Lowell, Mass. Loom-picker staff-check	288,631	Nov. 20	1062	292	25	708
Hallowell, Levi, China, Me. Ice-scraper	279,645	June 19	1285	357	23	2357
Hallowell, Wallace. (See Mills, Charles W., assignor.)						
Hallström, Hadar, Eskilstuna, Sweden. Manufacture of cutlery	274,318	Mar. 20	1379	379	23	1086
Halpin, Druitt, Westminster, England. Cut-off-valve gear	271,063	Jan. 23	1528	441	23	311
Halpin, Druitt, Westminster, England. Mechanism for supplying water to ships' engines	274,761	Mar. 27	1952	543	23	1194
Halsey, A. J. (See Hunt, Henry C., assignor.)						
Halsey, Andrew J., *et al.* (See Hunt, Henry C., assignor.)						
Halsey, Daniel, Jr., Newark, N. J. Combined tan-vat and wheel	278,331	May 29	2260	619	23	2043
Halsey Fire Engine Company. (See Halsey, Menzo D., assignor.)						
Halsey, Menzo D., Detroit, Mich., assignor to Halsey Fire Engine Company, of Michigan. Fire-engine	285,259	Sept. 18	1351	381	24	1152
Halstead, Charles, New York, N. Y. Coffee-urn	270,788	Jan. 16	1192	344	23	248
Halstead, Charles, New York, N. Y. Coffee-urn	273,067	Feb. 27	1874	526	23	789
Halstead, Charles, New York, N. Y. Coffee-pot	281,265	July 17	1161	320	24	218
Halstead, Charles, New York, N. Y. Stench-trap	289,831	Dec. 11	574	160	25	994
Halstead & Spencer. (See Marett, John T., assignor.)						
Halsted, Nathaniel, Scranton, Pa. Car-coupling	272,430	Feb. 20	1067	301	23	641

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Haltaufderheide, Heinrich, Cassel, Prussia, Germany. Door-hinge	283,601	Aug. 21	1364	381	24	759
Halteman, William A., *et al.* (See Schaeffer, Lester A., assignor.)						
Halter, Andrew A., *et al.* (See Arend, John J., assignor.)						
Halvossen, Soren, Winchester, Wis. Skid	282,311	July 31	2499	686	24	456
Ham, Charles T., Rochester, N. Y. Lantern	283,237	Aug. 14	914	255	24	670
Ham, Charles T., assignor to Steam Gauge and Lantern Company, Rochester, N. Y. Lantern	278,540	May 29	2519	687	23	2089
Ham, Charles T., assignor to Steam Gauge and Lantern Company, Rochester, N. Y. Tubular lantern	285,406	Sept. 25	1531	431 432	24	1188
Ham, Erasmus R., New Market, Ga. Cultivator	278,541	May 29	2520	688	23	2089
Hani, Henry H., Jr., Portsmouth, N. H. Calendar	287,281	Oct. 23	1901	520	25	364
Hamaker, David L., *et al.* (See Hunter, Edwin, assignor.)						
Hamaker, Edwin W., *et al.* (See Hamaker, John H., assignor.)						
Hamaker, John H., assignor of one-third to E. W. and U. S. Hamaker, Canton, Ohio. Grain and seed thrasher and separator	283,778	Aug. 28	1588	449	24	813
Hamaker, Ulysses S., *et al.* (See Hamaker, John H., assignor.)						
Haman, Aiken, San Francisco, Cal. Endless-cable grip, &c	287,377	Oct. 23	2018	549	25	385
Hamann, August, Hoboken, N. J. Manufacture of glass buttons	285,125	Sept. 18	1195	335	24	1122
Hambaugh, James S., Jacksonville, Ill. Sun-printing frame	276,173	Apr. 24	1677	464	23	1538
Hamblet, James, Brooklyn, N. Y. Electric synchronizing apparatus for time-pieces	270,058	Jan. 2	273	79	23	56
Hamblet, James, Brooklyn, N. Y. Circuit and apparatus for electric-clock systems	288,175	Nov. 6	471	131	25	589
Hambleton, Francis H., Baltimore, Md. Globe or stop valve	277,713	May 15	1472	398	23	1891
Hambleton, Francis H., Baltimore, Md. Stop-valve	290,044	Dec. 11	837	236 237	25	1041
Hambly, William S., Bradford, Pa. Bicycle	290,576	Dec. 18	1528	421	25	1171
Hambruch, Heinrich F., Hamburg, Germany. Knife-cleaning machine	271,841	Feb. 6	310	85	23	495
Hambujer, Ephraim, assignor of one-half to D. P. Frank and J. Koch, Detroit, Mich. Button-hole stay for boots and shoes	288,794	Nov. 20	1269	347	25	743
Hamel, Joseph F. (See Malone and Hamel.)						
Hamer, Samuel. (See McCracken and Hamer.)						
Hamill, Charles W., Baltimore, Md. Wheel for advertising	285,357	Sept. 18	1463	412	24	1170
Hamilton, Charles H. (See Mount, Jerome C., assignor.)						
Hamilton, Clarence J., Plymouth, Mich. Pump	270,789	Jan. 16	1193	344	23	248
Hamilton, Docia C., New York, N. Y. Dress-maker's measure	276,032	Apr. 17	1500	413	23	1499
Hamilton, Emery M., assignor to L. Goldsmith, New York, N. Y. Telegraphic receiving-instrument	273,728	Mar. 13	634	168	23	951
Hamilton, Frederic A. (See Trott and Hamilton.)						
Hamilton, James A., trustee. (See Sweeney, George W., assignor.)						
Hamilton, James E., New York, N. Y. Underground system of laying electrical conductors	279,646	June 19	1286	358	23	2357
Hamilton, John A., *et al.* (See Conway, Michael L., assignor.)						
Hamilton, John W. (See Cole, James W., assignor.)						
Hamilton, Jonathan R., Kingston, assignor of one-half to P. Johnson, Dassel, Minn. Holder for mower and reaper knives	270,790	Jan. 16	1194	345	23	248
Hamilton, Jonathan R., Kingston, Minn. Corn-sheller	281,868	July 24	1932	528 529	24	355
Hamilton Lead Bath Company. (See Vanderhoof, Henry T., assignor.)						
Hamilton, Lemmon Arnold & Co. (See Hamilton, William, assignor.)						
Hamilton, Miles E., assignor of one-half to G. Green, Auburn, N. Y. Combined lock and latch	282,886	Aug. 7	492	138	24	587
Hamilton, Robert. (See Colton, Albert B., assignor.)						
Hamilton, Samuel, Salinas, Cal. Header-spring	284,296	Sept. 4	174	49	24	933
Hamilton, Samuel, Salinas, Cal. Thrashing-machine and separator	287,925	Nov. 6	170	49	25	537
Hamilton, Silas H., Lawrence, Kans., assignor, by mesne assignments, to H. W. Porter, Chicago, Ill. Manufacture of paper boards. (Reissue)	10,386	Sept. 25	1995	564	24	1270
Hamilton, Silas H., Lawrence, Kans., assignor, by mesne assignments, to H. W. Porter, Chicago, Ill. Manufacture of paper boards. (Reissue)	10,387	Sept. 25	1996	565	24	1270
Hamilton, Tobias, Centrefield, Ohio. Life-boat	278,542	May 29	2521	688	23	2089
Hamilton, William, Allegheny, assignor to Hamilton, Lemmon Arnold & Co., Pittsburg, Pa. Burial-casket	275,201	Apr. 3	415	113	23	1297
Hamilton, William B. (See Kobnle and Hamilton.)						
Hamilton, William H., Watrousville, Mich. Stump-machine	272,957	Feb. 27	1748	488	23	766
Hamilton, Winfield S. (See Thomas, Edwin E., assignor.)						
Hamlet, John H., Indianapolis, Ind. Saw-table gage	287,124	Oct. 23	1701	466	25	398
Hamlin, Everlyn B., Chicago, Ill., assignor to Post & Co., Cincinnati, Ohio. Telephone switch-board	279,747	June 19	1402	391 392	23	2377
Hamlin, Harry. (See Graves, Gilbert S., assignor.)						
Hamlin, Harry. (See Root, Edwin, assignor.)						
Hamlin, Henry A. (See Cogger and Hamlin.)						
Hamlin, John, Wilkes-Barré, Pa. Anvil	278,237	May 22	2113	582	23	2009
Hamlin, Lucius, Sebago Lake, Me. Fire-escape ladder	275,905	Apr. 17	1351	372	23	1473
Hamlin, Lucius, Sebago Lake, Me. Canning-press	275,906	Apr. 17	1352	372	23	1473
Hamm, Adolph G., and H. W. Eisenbise, Burlington, Iowa. Car-brake	272,241	Feb. 13	814	227	23	593
Hamm, Aron, assignor of one-third to J. N. Weaver, Sayre, Pa. Claw-bar	282,722	Aug. 7	309	87	24	553
Hammack, Nott S., *et al.* (See Van Sickle, George W., assignor.)						
Hammelmann, Charles, Buffalo, N. Y. Fan-blower	270,897	Jan. 23	1324	382	23	278
Hammelmann, Charles, Buffalo, N. Y. Mechanical movement	282,076	July 31	2192	602	24	406
Hammer, Charles O., Pittsburg, Pa. Bottle-stopper	290,577	Dec. 18	1529	421	25	1171
Hammer, John. (See Kern and Hammer.)						
Hammer, Robert E., Philadelphia, Pa. Convertible sofa-bed	278,136	May 22	1984	545	23	1987
Hammerl, Joseph, Long Island City, N. Y. Graining-tool	273,519	Mar. 6	359	95	23	895
Hammerl, Joseph, Long Island City, N. Y. Graining-tool	285,999	Oct. 2	270	76	25	51
Hammerl, Joseph, Long Island City, N. Y. Refrigerator	288,430	Nov. 13	814	220	25	657
Hammermiller, William, assignor to C. Emmerich & Co., Chicago, Ill. Feather-crushing machine	274,936	Apr. 3	67	18	23	1237
Hammermiller, William, assignor to C. Emmerich & Co., Chicago, Ill. Machine for cleaning and sorting feathers	280,371	July 3	39	11	24	9
Hammerschmidt, John W., Quincy, Ill. Slat-support for bedsteads, &c	275,202	Apr. 3	416	114	23	1298
Hammerschmidt, Wilhelm, Philadelphia, Pa. Gas-engine	288,632	Nov. 20	1063	292	25	708
Hammerstein, Malvine. (See Hammerstein, Oscar, assignor.)						
Hammerstein, Oscar, assignor to M. Hammerstein, New York, N. Y. Cigar-machine	272,958	Feb. 27	1749	488	23	767
Hammill, Joshua M., assignor to J. Boyd, Philadelphia, Pa. Non-conducting compound	286,922	Oct. 16	1437	395	25	274
Hammond, Andrew H., Worcester, Mass. Winding-roller for musical instruments	271,064	Jan. 23	1529	442	23	311
Hammond, Andrew H., Worcester, Mass. Mechanical musical instrument	277,129	May 8	787	206 207	23	1766
Hammond, Andrew H., Worcester, Mass. Mechanical musical instrument	284,844	Sept. 11	844	237	24	1054

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hammond, Daniel S., Brooklyn, N. Y. Bag-lock	277,714	May 15	1473	398	23	1891
Hammond, Daniel S., Brooklyn, N. Y. Traveling-bag	279,942	June 26	1646	461	23	2425
Hammond, Dawson E. (See Pelton, James B., assignor.)						
Hammond, George W., assignor of one-half to G. W. Henry, Earl Park, Ind. Cultivator	278,543	May 29	2522	688	23	2089
Hammond, H. Jay. (See Wilson, Herbert S., assignor.)						
Hammond, H. Jay, and H. S. Wilson, Kalamazoo, Mich. Grinding-mill	285,031	Sept. 18	1086	303	24	1104
Hammond, Isaac B., Chicago, Ill. Ditching-machine	289,410	Dec. 4	44	13	25	894
Hammond, Isaac B., Chicago, Ill., assignor of one-third to E. Elliott, Chester, Minn. Dumping-wagon	277,483	May 15	1201	322, 323	23	1845
Hammond, J. R., *et al.* (See Carson, Robert J., assignor.)						
Hammond, James B., New York, N. Y. Type-writing machine	290,419	Dec. 18	1309	364, 365, 366	25	1132
Hammond, James B., New York, N. Y. Type-writing machine	290,420	Dec. 18	1321	367	25	1135
Hammond, John F., Omaha, Nebr. Nail-plate feeder	278,943	June 5	403	111	23	2192
Hammond, Louis, New Haven, Conn. Die for rolling axes	278,544	May 29	2523	688	23	2089
Hammond, Watson F., Mashpee, Mass. Cranberry-screen	280,372	July 3	40	11	24	9
Hammond, William E., Meriden, Conn., assignor to Cleveland Non-Explosive Lamp Company, Cleveland, Ohio. Suspension-hook for chandeliers	280,611	July 3	327	92	24	58
Hamner, William C., Morganfield, Ky. Fire-place and chimney	278,791	June 5	157	46	23	2149
Hamnett, William C., Toledo, Ohio. Adjustable window-cornice	270,425	Jan. 9	730	214	23	152
Hamon, Augustin H., Paris, France. Apparatus for making telegraph-cables	288,795	Nov. 20	1269	347	25	743
Hampton, John A., Houston, Tex. Hay and cotton press	273,520	Mar. 6	359	95	23	895
Hampton, William Z., Clemonsville, N. C. Fruit-drier	271,065	Jan. 23	1531	442	23	312
Hamrick, Jerome M., Buffalo Gap, Tex. Wrench	278,135	May 22	1984	545	23	1967
Hanavan, John H., San Francisco, Cal. Portable hanging scaffold	276,241	Apr. 24	1759	490	23	1552
Hanchett, Oren R., Erie, Pa. Tobacco-cutter	286,607	Oct. 16	1040	281	25	205
Hanchett, Oren R., assignor to Selden & Griswold Manufacturing Company, Erie, Pa. Cake-griddle	271,842	Feb. 6	311	85, 86	23	495
Hancock, Albert R., assignor to himself and M. R. Davey, Lincoln, Nebr. Metal lathing	279,748	June 19	1406	392	23	2377
Hancock, Clinton C., Philadelphia, Pa. Neck-wear	284,736	Sept. 11	713	200	24	1031
Hancock & Hancock. (See Tumey, Charles H., assignor.)						
Hancock, Isaiah, assignor to S. M. and J. R. Hancock, Fayetteville, Tenn. Cultivator-plow	270,426	Jan. 9	731	214	23	152
Hancock, James R., *et al.* (See Hancock, Isaiah, assignor.)						
Hancock, John. (See Merriam, Lyman W., assignor.)						
Hancock, Samuel M., *et al.* (See Hancock, Isaiah, assignor.)						
Hand, Furman, Pontiac, Ill. Thill-coupling	285,409	Sept. 25	1532	432	24	1189
Handforth, Benjamin, Hoboken, N. J. Spring-roller for curtain-fixtures	284,417	Sept. 4	319	88	24	957
Handlan, Alexander, Jr., St. Louis, Mo. Locomotive head-light	281,869	July 24	1934	529	24	356
Handrick, Richard. (See Gruson and Handrick.)						
Handy, Charles F., and W. P. Anthony, Providence, R. I., assignors to Pope Manufacturing Company, Boston, Mass. Tricycle	274,762	Mar. 27	1953	543	23	1194
Handy, James R., Attleborough, Mass. Charm for watch-chains	286,608	Oct. 16	1041	281	25	205
Handy, John, and D. H. Lord, Northfield, Minn. Flour-packer	277,895	May 22	1691	461	23	1936
Haner, Emil, Geneseo, Ill. Plow	281,499	July 17	1452	398	24	268
Haney, Solomon, Waterloo, Iowa. Windmill	270,059	Jan. 2	274	80	23	56
Haney, William H., assignor to H. Korf, Jr., Cincinnati, Ohio. Candle-molding machine	272,876	Feb. 27	1651	462	23	751
Haney, William M., Bellevue, Iowa. Milk or cream carrier	280,308	June 26	2081	586	23	2503
Hanford, Robert G., Jr., Columbus, Ohio. Fastening for straps, &c	275,203	Apr. 3	417	114	23	1298
Hanford, Robert G., Jr., Columbus, Ohio. Buckle	275,204	Apr. 3	418	114	23	1298
Hanford, Robert G., Jr., Columbus, Ohio, assignor to O. B. North & Co., New Haven, Conn. Hame-strap fastener	274,763	Mar. 27	1954	543	23	1195
Hanford, Robert G., Jr., Columbus, Ohio, assignor to O. B. North & Co., New Haven, Conn. Gag-runner	277,715	May 15	1474	398	23	1891
Hanford, Robert G., Jr., Columbus, Ohio, assignor to O. B. North & Co., New Haven, Conn. Gag-runner	277,716	May 15	1474	398	23	1891
Hanford, Samuel, Binghamton, N. Y. Manufacture of illuminating-gas	273,068	Feb. 27	1875	527	23	789
Hanford, William T. (See Tallman, David S., assignor.)						
Hanika, Christian, assignor to Hanika Iron Fence Company, Springfield, Ohio. Fence	287,828	Nov. 6	47	14	25	516
Hanika, Christian, assignor to Hanika Iron Fence Company, Springfield, Ohio. Metallic fence	289,253	Nov. 27	1818	502	25	851
Hanika Iron Fence Company. (See Hanika, Christian, assignor.)						
Hankerson, Alwyn D. (See Haines and Hankerson.)						
Hankey, Anthony, Rochdale, Mass. Roll-bar for pulp-engines	288,234	Nov. 13	548	151	25	612
Hankin, William H., Jr., and C. Tinney, Brooklyn, N. Y. Re-enforcing plate for saw-handles	280,612	July 3	329	92	24	58
Hanley, Michael W., Chicago, Ill. Grain-shovel	276,684	May 1	194	50	23	1657
Hanlon, George O., *et al.* (See Hanlon, John F., assignor.)						
Hanlon, John. (See Leadley, James E., assignor.)						
Hanlon, John. (See Leadley and Hanlon.)						
Hanlon, John, New York, N. Y., assignor to United Gas Improvement Company, Philadelphia, Pa. Gas apparatus	269,929	Jan. 2	125	37, 38	23	26
Hanlon, John, New York, N. Y., assignor to United Gas Improvement Company, Philadelphia, Pa. Apparatus for making gas	270,427	Jan. 9	732	215	23	152
Hanlon, John, New York, N. Y., assignor to United Gas Improvement Company, Philadelphia, Pa. Gasometer	273,521	Mar. 6	360	96	23	895
Hanlon, John, New York, N. Y., J. E. Leadley, Camden, and S. Gibbs, Warren County, N. J., assignors to United Gas Improvement Company, Philadelphia, Pa. Process of and apparatus for manufacturing gas	273,230	Feb. 27	2084	585, 586	23	826
Hanlon, John, New York, N. Y., J. E. Leadley, Camden, and S. Gibbs, Warren County, N. J., assignors to United Gas Improvement Company, Philadelphia, Pa. Steam-boiler for gas-generators	273,522	Mar. 6	360	96	23	896
Hanlon, John, New York, N. Y., and J. E. Leadley, Camden, N. J., assignors to United Gas Improvement Company, Philadelphia, Pa. Process of and apparatus for manufacturing gas	285,614	Sept. 25	1776	503, 504, 505, 506	24	1234
Hanlon, John F., Boston, assignor to G. O. and J. P. A. Hanlon, Cambridge, Mass. Railway-rail	276,242	Apr. 24	1760	490	23	1552
Hanlon, Joseph P. A., *et al.* (See Hanlon, John F., assignor.)						
Hanna, Cyrus T., Allegheny, Pa. Roller-grinding mill	272,043	Feb. 13	570	154	23	551
Hanna, William C. (See Kallista, Joseph, assignor.)						
Hannan, Michael, New York, N. Y. Snow-melting apparatus	281,500	July 17	1452	398	24	268
Hannay, James B., Glasgow, county of Lanark, Scotland. Incrustation-preventive	285,615	Sept. 25	1779	506	24	1235

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Hannum, Henry A., Cazenovia, N. Y. Vibrating propeller for boats	278,945	June 5	408	112	23	2193
Hansberry, Lewis E. (See Smith and Hansberry.)						
Hansberry, Thomas K., Norton, Kans. Fence	290,578	Dec. 18	1530	421	25	1171
Hanscom, Albert S., Moorhead, Minn. Traction-engine	270,308	Jan. 9	569	167	23	121
Hanscom, Jackson M., Boston, Mass. Metal-boring tool	281,687	July 24	1695	461	24	313
Hansel, John, Yellow Springs, Ohio. Corn-husking chair	281,266	July 17	1161	321	24	219
Hansell, Walter P., assignor to French Spiral Spring Company, Pittsburg, Pa. Car-spring	273,837	Mar. 13	773	209	23	974
Hansen, Andrew, Racine, Wis. Logging-sleigh	271,843	Feb. 6	312	86	23	496
Hansen, Jens P., Soröe, Sjælland, Denmark. Machine for sharpening saws	285,126	Sept. 18	1196	335	24	1123
Hansen, Thorvald T. A. (See Andersen and Hansen.)						
Hanser, Jacob, Oxford, Ohio. Vehicle-spring	280,613	July 3	329	92	24	59
Hanson, Charles, assignor of one-half to F. Appelquist, Rock Island, Ill. Plow	271,844	Feb. 6	313	86	23	496
Hanson, Charles P., Edwardsburg, Mich. Check-rower and planter	270,428	Jan. 9	732	215	23	152
Hanson, Christian. (See Phelps and Hanson.)						
Hanson, Frank B., New York, N. Y. Pump	274,937	Apr. 3	68	19	23	1237
Hanson, Freeman, Bar Mills, Me. Wood-turning machine	272,242	Feb. 13	816	227	23	593
Hanson, Freeman, Hollis, Me. Wood-turning lathe	286,810	Oct. 16	1294	350 / 351	25	249
Hanson, Freeman, Hollis, assignor to G. L. and C. F. Warren, Portland, Me. Nail for carriage-curtain fastenings	273,729	Mar. 13	635	169	23	951
Hanson, Freeman, Hollis, assignor of one-half to J. G. McFarland and D. A. Meaher, Portland, Me. Turning-lathe	286,811	Oct. 16	1295	351 / 352	25	250
Hanson, Olaf. (See Sande, Albert N., assignor.)						
Hanson, Oley C., Eureka, Cal. Shingle-sawing machine	289,094	Nov. 27	1633	452	25	815
Hanson, Swan, Moline, and J. S. Lees, Rock Island, assignors to Barnard & Lees Manufacturing Company, Moline, Ill. Grain-scourer	276,966	May 1	565	147	23	1723
Hanson, William S., Mount Pleasant, Iowa. Tile-ditching machine	286,696	Oct. 16	1158	312	25	225
Hanstein, Hermann, Chicago, Ill. School-blackboard	278,010	May 22	1630	500	23	1960
Hanstein, Hermann, Chicago, Ill. Attachment to dividers	288,235	Nov. 13	549	151	25	612
Hansz, Daniel, Sullivan, Ind. Motor	277,717	May 15	1475	399	23	1891
Happersberger, Fredrick, Madison, Ind. Electric annunciator	289,411	Dec. 4	46	13	25	895
Happersberger, John, Cincinnati, Ohio, assignor to Cincinnati Electric Clock Company. Electric mechanism for controlling the hands of clocks	273,231	Feb. 27	2086	586	23	827
Happersberger, John, Cincinnati, Ohio, assignor to Cincinnati Electric Clock Company. Electric clock movement	278,946	June 5	410	112	23	2193
Harang, Théophile, New Orleans, La. Apparatus for the disintegration of bagasse and other vegetable matter	278,545	May 29	2523	689	23	2090
Harbach, Theodore J. (See Vick, Alfred, assignor.)						
Harbine, John T., Xenia, Ohio. Machine for trimming oil-cakes	276,811	May 1	359	95	23	1689
Harbison, Dickson T., Duncanville, Ill. Trace-buckle	287,125	Oct. 23	1702	466	25	329
Harbison & Walker. (See McKenna, William S., assignor.)						
Harbold, John E. L., Worthington, Ky. Car-coupling	286,198	Oct. 9	512	141	25	105
Harbster, Matthan, *et al.* (See Rippien, Adolph, assignor.)						
Harbster, William, *et al.* (See Rippien, Adolph, assignor.)						
Hard, Charles H., Oneida, N. Y. Mattress-frame	288,431	Nov. 13	815	221	25	658
Harden, Jasper F., New Plymouth, Ohio. Watch-fob	278,947	June 5	411	112	23	2193
Harden, John J., Chicago, Ill. Hand-grenade for fire-extinguishers	282,981	Aug. 14	594	168	24	613
Hardenbergh, Henry J., New York, N. Y., and G. A. Weinreich, Philadelphia, Pa.; said Weinreich assignor to said Hardenbergh. Transom-lifter	285,811	Oct. 2	37	12	25	8
Harder, Frank P., *et al.* (See Burns and Buckman, assignors. (Reissue.)						
Harder, William A. (See Lawrence, George H., assignor.)						
Hardie, Jason W., New York, N. Y. Pneumatic store-service apparatus	289,649	Dec. 4	345	97	25	948
Hardin, Benoni J., Springfield, Ky. Bolt	282,077	July 31	2193	602	24	406
Harding, James, Newark, N. J. Die for forming the claws of hatchets	285,127	Sept. 18	1197	335	24	1123
Harding, John H., Milwaukee, Wis. Embossing upon plastered walls and other surfaces	278,238	May 22	2114	582	23	2009
Harding, Thomas, Lafayette, Ind. Car-coupling	274,764	Mar. 27	1955	544	23	1195
Hardison, Lewis A., Duke Centre, Pa. Machine for drilling wells	274,120	Mar. 20	1130	311	23	1043
Hardman, James, Jr. (See Adams, George B., assignor.)						
Hardsocg, Martin, Avery, Iowa. Mining-machine	282,632	Aug. 7	192	56	24	533
Hardtmuth, Franz, Budweis, Austria-Hungary. Pencil or crayon holder	276,812	May 1	360	96	23	1689
Hardwick, Frederick. (See Brown, Joshua, assignor.)						
Hardwick, Joseph O., Colorado City, Colo. Washing-machine	274,190	Mar. 20	1212	334	23	1058
Hardy, George R. (See Blodgett and Hardy.)						
Hardy, Manly. (See Getchell, George W., assignor.)						
Hardy, Orlando B. (See Lauth and Hardy.)						
Hardy, Thomas P., New York, N. Y. Pipe-coupling	282,312	July 31	2500	687	24	456
Hardy, Thomas P., New York, N. Y. Reducing pipe-coupling	290,045	Dec. 11	838	237	25	1041
Hare, John R., Baltimore, Md. Street-car fare-box	274,319	Mar. 20	1380	379	23	1066
Harger, Joel P. (See Keith, Horace M., assignor.)						
Hargrave, Philip H. (See Keller, Peter, assignor.)						
Hargreaves, John C. (See Fawcett and Hargreaves.)						
Haring, John F. (See Gamblee and Haring.)						
Harker, John B., Columbus, Ohio. Casting hollow ware	272,044	Feb. 13	573	155	23	551
Harker, John B., and C. L. Wilkins, Columbus, Ohio. Waffle-iron	277,422	May 8	1122	301	23	1895
Harland, James M., Dayton, Ohio. Wrench	288,432	Nov. 13	815	221	25	658
Harley, John M. (See Polson and Harley.)						
Harley, Joseph L., Baltimore, Md. Register	277,130	May 8	789	207	23	1767
Harley, Olin, Bluffton, Ind. Screen	280,614	July 3	330	92	24	59
Harley, William C., St. Louis, Mo. Skid	276,685	May 1	195	50	23	1657
Harlow, Ivory W., assignor to Plymouth Foundry Company, Plymouth, Mass. Stove	273,730	Mar. 13	636	169	23	951
Harlow, John M., Brighton, Cal. Fruit-stoner	269,852	Jan. 2	41	13	23	10
Harman, Jonathan, Solomon City, Kans. Attachment for plows and cultivators	280,615	July 3	331	93	24	59
Harman, William, Chicago, Ill. Combustion device for steam-boiler furnaces	287,670	Oct. 30	2408	649	25	468
Harmer, Henry, Southampton, Ontario, assignor to F. Broughton, Hamilton, Canada. Safety switch-guard	289,254	Nov. 27	1819	503	25	851
Harmon, Gilbert P., Portland, Me. Water-gage	289,255	Nov. 27	1820	503	25	851
Harmon, John W., Boston, Mass. Artificer's level	270,951	Jan. 23	1393	402	23	289
Harmon, John W., Boston, Mass. Artificer's leveling-instrument	281,267	July 17	1162	321	24	219
Harmon, Orville S., Brooklyn, N. Y., assignor to P. Lorillard & Co., Jersey City, N. J. Pocket-knife for cutting tobacco	276,813	May 1	362	96	23	1690
Harmony, William P., Sidney, Ohio. Compositor's type-case stand	272,243	Feb. 13	818	228	23	594
Harned, Frank P., Camden, N. J., assignor to C. R., I. R., and J. R. Wainwright, Philadelphia, Pa. Grinding caustic soda	286,132	Oct. 2	432	.....	25	80
Harnist, Peter, Marine, Ill. Flour-mill feeder	290,421	Dec. 18	1323	367	25	1135

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Harper, Adrian. (See Roland and Harper.)						
Harper, Andrew J., Unionville Centre, Ohio. Wagon-hound	271,631	Feb. 6	61	17	23	450
Harper, Andrew J., Unionville Centre, Ohio. Wagon-hound	275,907	Apr. 17	1353	372	23	1474
Harper, Charles S., Sharon, Mass. Carriage-axle	276,174	Apr. 24	1678	464	23	1538
Harper, David, Jonesborough, Ark. Excavator	287,671	Oct. 30	2410	649, 650	25	468
Harper, Henry M., Elmira, N. Y. Switch lever and rod	275,336	Apr. 3	594	159	23	1327
Harper, Isaac and S., Pittsburg, Pa. Regenerating-furnace	274,320	Mar. 20	1380	379, 380	23	1087
Harper, John, assignor of one-half to W. R. Swartz, Duncannon, and G. W. Melly, Harrisburg, Pa. Fire-escape	280,741	July 3	489	138	24	87
Harper, John W., Assumption, Ill. Stack-roof	280,431	Oct. 9	818	222	25	159
Harper, John W., assignor of one-half to J. B. Graham, Jersey City, N. J. Interlocking apparatus for railway switches and signals	273,681	Mar. 6	569	151	23	931
Harper, Nathan, assignor to M. W. Adams, Newark, N. J. Hat-sizing machine	278,332	May 29	2261	619, 620	23	2043
Harper, Nathan, assignor to M. W. Adams, Newark, N. J. Hat-sizing apparatus	278,333	May 29	2265	620	23	2044
Harper, Richard E., Butler, Mo. Whiffletree-clip	288,796	Nov. 20	1270	348	25	743
Harper, Robert W., Evansville, Ind. Broom	273,984	Mar. 13	948	261	23	1004
Harper, Robert W., assignor, by mesne assignments, to J. H. Polsdorfer, Evansville, Ind. Wash-board	287,926	Nov. 6	171	49	25	537
Harper, Samuel. (See Harper, Isaac and S.)						
Harper, Samuel, *et al.* (See Gearing, Charles, assignor.)						
Harpham, George E. (See McDermott, John, assignor.)						
Harrah, Stephen R., Pittsburg, Kans. Sash-fastener	279,749	June 19	1406	392	23	2378
Harrah, William C., Webster City, Iowa. Excavator and grader combined	277,027	May 8	649	169	23	1742
Harral, Edward W. (See Hawley, Theodore, assignor.)						
Harral, Edward W., Fairfield, Conn. Curtain or covering for carriages	280,309	June 26	2062	587	23	2503
Harrell, William K., Clarinda, Iowa. Plow	274,491	Mar. 27	1630	452	23	1137
Harrigan, Cornelius, Rome, N. Y. Sleigh	278,662	May 29	2066	729	23	2114
Harrington, Edmond B. (See Luce, Theodore, assignor.)						
Harrington, Edwin, assignor to E. Harrington & Son, Philadelphia, Pa. Hoisting-machine	272,431	Feb. 20	1068	301	23	642
Harrington, Edwin, assignor to E. Harrington & Son, Philadelphia, Pa. Hoisting-machine	272,432	Feb. 20	1069	301	23	642
Harrington, Franklin. (See Bemis, James H., assignor.)						
Harrington, John C., Providence, R. I. Bracelet	272,244	Feb. 13	819	228	23	594
Harrington, John C., Providence, R. I. Bracelet	289,531	Dec. 4	198	56	25	921
Harrington, Rufus S., Minneapolis, Minn. Washing-machine	277,028	May 8	651	169	23	1743
Harrington & Son, Edwin. (See Harrington, Edwin, assignor.)						
Harrington & Son, Edwin. (See Haskins, Harry S., assignor.)						
Harris, Alfred E., Mile End Road, county of Middlesex, England. Car-brake	277,274	May 8	949	254, 255	23	1796
Harris, Alphonso S., Chelsea, Mass. Automatic fire-extinguisher	269,930	Jan. 2	126	38	23	26
Harris, Alphonso S., Chelsea, Mass. Gas-burner	269,931	Jan. 2	128	38	23	27
Harris, Arthur, Chicago, Ill., assignor to J. M. Adams. Locomotive head-light	272,245	Feb. 13	820	228	23	594
Harris, Arthur, Chicago, Ill., assignor to J. M. Adams. Locomotive head-light	272,246	Feb. 13	820	229	23	594
Harris, Arthur, assignor to J. M. Adams, Chicago, Ill. Locomotive head-light	276,814	May 1	363	96	23	1690
Harris, Arthur, and G. M. Clark, assignors to J. M. Adams, Chicago, Ill. Locomotive head-light	270,791	Jan. 16	1195	345	23	248
Harris, Arthur, and G. M. Clark, assignors to J. M. Adams, Chicago, Ill. Locomotive head-light	270,792	Jan. 16	1195	345	23	249
Harris, Arthur, and G. M. Clark, assignors to J. M. Adams, Chicago, Ill. Locomotive head-light	270,793	Jan. 16	1196	345	23	249
Harris, Arthur, and G. M. Clark, assignors to J. M. Adams, Chicago, Ill. Locomotive head-light	270,794	Jan. 16	1197	346	23	249
Harris, Arthur, and G. M. Clark, assignors to J. M. Adams, Chicago, Ill. Locomotive head-light	270,795	Jan. 16	1198	346	23	249
Harris, Arthur, and G. M. Clark, assignors to J. M. Adams, Chicago, Ill. Locomotive head-light	272,247	Feb. 13	821	229	23	595
Harris Button Hole Company. (See Dancel, Christian, assignor.)						
Harris, Charles A., Belleville, Tex. Machine for washing dishes	289,650	Dec. 4	347	97	25	948
Harris, Charles A., assignor of one-half to C. P. Curtis and E. Karchner, Millbury, Ohio. Stave-baling machine	287,672	Oct. 30	2411	650	25	468
Harris, Charles R., Attleborough, Mass. Locket	281,688	July 24	1696	461	24	313
Harris, Darius W., assignor to Snell Manufacturing Company, Fiskdale, Mass. Metal die for making augers	276,033	Apr. 17	1501	413	23	1499
Harris, David, Brooklyn, N. Y. Machine for making button-hole linings	282,078	July 31	2194	602, 603	24	406
Harris, Frederick G. (See Chamberlain and Harris.)						
Harris, George E., Virginia, Ill. Sharpening-stone	290,579	Dec. 18	1531	.....	25	1171
Harris, Gilbert J. (See Flewwelling and Harris.)						
Harris, Henry, Suisun City, Cal. Metallic fastener	285,260	Sept. 18	1353	381	24	1152
Harris, Henry, Suisun City, Cal. Pantaloons	286,609	Oct. 16	1042	281	25	205
Harris, James W. and S., assignors of one-half to J. A. Ballard & Son., Saltillo, Miss. Plow	290,641	Dec. 18	1608	442	25	1184
Harris, John, Columbus, Nebr. Motive power	270,796	Jan. 16	1198	346	23	249
Harris, John, Canisteo, N. Y. Pump	273,985	Mar. 13	949	261	23	1004
Harris, John G., *et al.* (See Atkinson, Henry C., assignor.)						
Harris, Jonathan, Grand Ledge, Mich. Curtain-fixture	274,191	Mar. 20	1213	334	23	1058
Harris, Joseph, Jr., Boston, Mass. Wheel for vehicles	272,133	Feb. 13	688	187	23	570
Harris, Joshua W., Waynesborough, assignor of one-half to T. W. Lambert, Greenville, Va. Neck-yoke	289,256	Nov. 27	1821	503	25	851
Harris, Milo, assignor of one-half to N. E. Thomas, Jamestown, N. Y. Pillow-sham holder	278,705	June 5	38	11	23	2131
Harris, Noah R., *et al.* (See Hutson, William L., assignor.)						
Harris, Orlan A., Madelia, Minn. Washing-machine	277,896	May 22	1692	461, 462	23	1937
Harris, Samuel R., *et al.* (See Knowlton, William W., assignor.)						
Harris, Samuel R., *et al.* (See Sweet, George N., assignor.)						
Harris, Sarah A., *et al.* (See Cooper, Daniel M., assignor.)						
Harris, Stephen. (See Harris, James W. and S.)						
Harris, Thomas A., Callisburg, Tex. Store-shelving	273,069	Feb. 27	1876	527	23	790
Harris, Thomas H., London, England. Stretcher for pantaloons and other garments	286,812	Oct. 16	1296	352	25	250
Harris, Virginius C. (See Foster and Harris.)						
Harris, William E., New York, N. Y. Ore-amalgamator	272,045	Feb. 13	574	155	23	551
Harris, William E., New York, N. Y. Amalgamator	272,544	Feb. 20	1206	337	23	666

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Harris, William E., New York, N. Y. Amalgamating-furnace	273,275	Mar. 6	36	12	23	841
Harris, William E., New York, N. Y. Oxidizing-furnace	276,175	Apr. 24	1679	464	23	1538
Harris, William E., New York, N. Y. Machine for amalgamating the gold and silver in pulverized ores	282,982	Aug. 14	595	168	24	613
Harris, William E., St. Louis, Mo., and E. B. Evans, Covington, Ky., assignors of one-fourth to S. and G. H. Knight, St. Louis, Mo., and O. Knight, Washington, D. C. Roll for rolling metal	288,176	Nov. 6	475	131	25	590
Harris, William H., Buffalo, N. Y. Filter	290,046	Dec. 11	839	237, 238	25	1041
Harris, William M., Menlo, Iowa. Lock for stencil-plates	275,205	Apr. 3	419	115	23	1298
Harris, William P., South Chicago, Ill. Automatic roll-call for telegraph-lines	280,616	July 3	332	93	24	59
Harris, William W., assignor of one-fourth to J. W. Holtzclaw, Spartanburg, S. C. Combined cotton-seed drill and fertilizer-distributer	289,771	Dec. 4	492	137	25	972
Harrison, Abraham W., Abergavenny, county of Monmouth, England. Valve for oscillating engines	271,449	Jan. 30	2018	562	23	404
Harrison Brothers & Co. (See Semper, Conrad, assignor.)						
Harrison, Frank, Loveland, Colo. Saw-guide	284,007	Aug. 28	1887	529	24	864
Harrison, Jay L., Lebanon, Ind. Wagon-brake	276,686	May 1	196	50	23	1657
Harrison, John F., assignor of one-half to H. J. Davison, New York, N. Y. Equilibrated gas-holder	272,248	Feb. 13	822	229	23	595
Harrison, John S., Clinton, Iowa. Fire-escape ladder	292,079	July 31	2197	603	24	406
Harrison, John W., Wheeling, W. Va. Shutter-worker	270,310	Jan. 9	571	168	23	122
Harrison, Jonathan W., Ypsilanti, Mich. Jack for raising railroad-tracks	269,932	Jan. 2	129	38	23	27
Harrison, Joseph, Milwaukee, Wis. Mold	277,131	May 8	792	207, 208	23	1767
Harrison, Leonard S., Nashville, Ohio. Auxiliary barrel for guns	278,546	May 29	2525	689	23	2090
Harrison, M. La Rue, Washington, D. C., and F. Underhill, assignors to Yale Lock Manufacturing Company, Stamford, Conn. Wicket	270,309	Jan. 9	570	167, 168	23	121
Harrison Machine Works. (See Buchanan, William C., assignor.)						
Harrison, Robert J., Cary, N. C. Seed-planter and cultivator	276,034	Apr. 17	1502	414	23	1499
Harrison, Samuel T., San Francisco, Cal. Rasp	279,750	June 19	1407	393	23	2378
Harrison, Thomas B. (See Barry, James A., assignor.)						
Harrison, Thomas S., Philadelphia, Pa. Producing a perfumed soap alkali	292,633	Aug. 7	193	.....	24	534
Harrison, William H., Louisville, Ky. Device for holding coin and making change	292,723	Aug. 7	309	87, 88	24	554
Harrison, William H., assignor to himself and H. H. Littell, Louisville, Ky. Car-starter	271,066	Jan. 23	1532	442	23	312
Harrison, William P. (See Miller and Harrison.)						
Harrison, William P., Columbus, Ohio. Reel for chain-pumps	272,433	Feb. 20	1070	301	23	642
Harriss, James W., Terrell, Tex. Sweat-leather for riding-saddles	290,880	Dec. 25	1917	529	25	1246
Harrod, John H., Huntsville, Ohio. Car-coupling	288,999	Nov. 27	1513	418, 419	25	795
Harrod, William H., Sellersburg, Ind. Sulky-plow	288,998	Nov. 27	1513	418	25	795
Harroun, Alexander, Clockville, N. Y. Support for climbing plants	278,706	June 5	39	11	23	2131
Harry, Baldwin W., and J. C. Kieffer, Milton Centre, Ohio. Car-coupling	277,275	May 8	950	255	23	1796
Harry, Simon J., Negaunee, Mich. Car-coupling	273,357	Mar. 6	155	44	23	861
Harsha, Mortimer S., assignor of one-half to O. Berg, Chicago, Ill. Saw-feeding device	288,330	Nov. 13	677	186	25	633
Harston, Alfred H. (See Asimont, Henry H., assignor.)						
Hart, Albert. (See Fisher and Hart.)						
Hart, Amos D., Elmira, N. Y. Scaffold-bracket	284,845	Sept. 11	846	238	24	1054
Hart, Andrew D., North Garden, Va. Safety-hammer for fire-arms	273,070	Feb. 27	1877	527	23	790
Hart, Benjamin W., London, England. Pneumatic apparatus for the separation of minerals, &c	271,450	Jan. 30	2019	582, 583	23	405
Hart, Calvin, Farmington, Ill. Farm-gate	276,176	Apr. 24	1679	464	23	1538
Hart, Daniel R., and J. B. Geach, New York, N. Y. Car-bell	273,358	Mar. 6	156	44	23	861
Hart, David S., Paradise, Ill. Washing-machine	290,047	Dec. 11	840	238	25	1041
Hart, Eli S., Clinton, Iowa. Track-drill	286,298	Oct. 9	659	176	25	129
Hart, Fred O., assignor to himself and E. D. Weston, Wakefield, Mass. Grate for stoves and furnaces	274,938	Apr. 3	69	19	23	1237
Hart, Harrie B., Philadelphia, Pa. Bicycle-bell	275,485	Apr. 10	816	221	23	1374
Hart, Harrie B., Philadelphia, Pa. Bicycle-saddle	285,891	Oct. 2	145	41	25	28
Hart, Henry C., Detroit, Mich. Baggage-rack for railway-cars	282,887	Aug. 7	493	139	24	587
Hart, Hubert C., Unionville Conn. Belt-fastener	272,685	Feb. 20	1387	389	23	697
Hart, Hubert C., Unionville, Conn. Belt-fastener	281,058	July 10	885	246	24	164
Hart, Hubert C., Unionville, Conn. Knife	281,361	July 17	1280	355	24	238
Hart, James H., Denver, Colo. Ash-depositor	277,718	May 15	1475	399	23	1801
Hart, Joel T., Greenwood, Mo. Hay rake and loader	279,647	June 19	1289	358	23	2357
Hart, John C., Green's Fork, Ind. Cultivator	273,071	Feb. 27	1878	527, 528	23	790
Hart, John P., Jr. (See Herman, Addison M., assignor.)						
Hart, Joseph, New York, N. Y. Fire-escape	283,391	Aug. 21	1116	316	24	714
Hart, Louis H., assignor to H. C. Wilkinson, New York, N. Y. Imitation telegraph-key	281,362	July 17	1281	355	24	238
Hart, Stacy B., Peoria, Ill. Force-feed fertilizer attachment for grain-drills	277,719	May 15	1476	399	23	1892
Harter, Francis, Wilkes-Barré, Pa. Wagon-brake	278,948	June 5	411	112	23	2193
Harter, Isaac. (See Kohler, Frederick E., assignor.)						
Harter, Joseph, Tiffin, Ohio. Combined harrow, roller, and scraper	277,029	May 8	652	170	23	1743
Harter, Joseph V., Denver, Ill. Ground-pulverizer and stalk-cutter	282,724	Aug. 7	310	88	24	554
Harter, Michael D., *et al.* (See Rote, Charles V., assignor.)						
Hartford, David F., assignor of one-half to T. T. Hartford, Boston, Mass. Sole-rounding machine	274,939	Apr. 3	70	19	23	1237
Hartford Machine Screw Company. (See Spencer, Christopher M., assignor.)						
Hartford Sanitary Plumbing Company. (See Birkery and Lord, assignors.)						
Hartford Sanitary Plumbing Company. (See Hatch, George E., assignor.)						
Hartford Sanitary Plumbing Company. (See Lord and Day, assignors.)						
Hartford, Thomas T. (See Hartford, David F., assignor.)						
Hartig, Henry, Brooklyn, N. Y. Steam-engine	277,897	May 22	1693	462	23	1937
Hartje, Frederick. (See Hartje, George and F.)						
Hartje, George and F., New York, N. Y. Manufacture of gold for jewelry	281,059	July 10	886	.....	24	164
Hartle, Andrew J., Covington, Ohio. Reel for reaping-machines	270,797	Jan. 16	1200	346	23	250
Hartley, D. Bert, Chicago, Ill. Rocking, reclining, and easy chair	276,687	May 1	197	50, 51	23	1658
Hartley, D. Bert, Chicago, Ill. Clutch mechanism	276,688	May 1	199	51	23	1658
Hartley, D. Bert, Chicago, Ill. Mechanical movement	278,011	May 22	1833	500	23	1960
Hartley, Henry C., and J. L. Rodgers, Springfield, Ohio. Button-hole attachment for sewing-machines	279,563	June 19	1194	330	23	2340
Hartley, James M. (See Hartley, Marquis D. L., and J. M.)						
Hartley, Marquis D. L. and J. M., San Diego, Cal. Whiffletree	285,032	Sept. 18	1067	303	24	1104

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Drg.	Official Gazette. Vol.	Page.
Hartman, Benjamin J., Wooster, Ohio. Harness-saddle	281,501	July 17	1454	398	24	269
Hartman, Charles F., Keller's Church, Pa. Rail-joint	274,593	Mar. 27	1757	488	23	1159
Hartman, Charles R., Vincennes, Ind. Hub of colter for plows	278,940	June 5	413	113	23	2194
Hartman, Charles R., Vincennes, Ind. Hub for wheel-colters	278,950	June 5	413	113	23	2194
Hartman, Francis M., Marathon, Ohio. Horseshoe	285,261	Sept. 18	1354	382	24	1152
Hartman, Franklin, Flowerfield, Mich. Rosette-buckle	275,824	Apr. 17	1255	345	23	1456
Hartman, George J., Lake, assignor to W. H. Lotz and E. Carqueville, Chicago, Ill. Seal-lock for car-doors	284,632	Sept. 11	578	163	24	1008
Hartmann, Henry, Jersey City, N. J. Water-filter	283,103	Aug. 14	754	212	24	641
Hartman, Henry, assignor to W. M. Johnson and K. Heusser, Salt Lake City, Utah Ter. Combination can-opener	278,951	June 5	415	113	23	2194
Hartman, Jacob B., Wooster, Ohio. Window-blind	289,832	Dec. 11	575	161	25	994
Hartman, Jacob B., Wooster, Ohio. Refrigerator	289,833	Dec. 11	576	161	25	994
Hartman, John M., Philadelphia, Pa. Hot-blast stove	275,908	Apr. 17	1354	373	23	1474
Hartman, Joseph V., and A. Wetzel, Jr., Linwood, Ohio. Car-coupling	288,797	Nov. 20	1271	348	25	747
Hartman, Samuel. (See Heidmeyer, Conrad J., assignor.)						
Hartmann, Eugen F. G., Berlin, assignor to Gebr. Stollwerck, Cologne, Germany. Soluble cocoa	270,878	Jan. 16	1293	.....	23	267
Hartmann, Eugen F. G., Berlin, assignor to Gebr. Stollwerck, Cologne, Germany. Soluble cocoa	273,975	Mar. 13	940	.....	23	1003
Hartmann, Paul. (See Grunzweig and Hartmann.)						
Hartnagel, Jacob, New York, N. Y., assignor to J. N. Wiggin, Caldwell, N. J. Manufacture of window-shades and similar articles	274,594	Mar. 27	1758	.....	23	1159
Hartson, La Fayette, Wyoming, Iowa. Harness buckle and loop	281,870	July 24	1935	529	24	356
Hartung, Charles C., St. Louis, Mo. Self-closing hatchway	290,048	Dec. 11	841	238	25	1041
Hartwell, Eugene B., Delphos, Ohio. Neck-yoke	278,952	June 5	415	113	23	2194
Hartwell, James G. (See Eddy, Peter, assignor.)						
Hartwell, Newton W., Louisville, Ky. Telegraph-blank	284,297	Sept. 4	175	49, 50	24	934
Hartwich, Ferdinand F., Onaga, Kans. Straw-stacker	277,720	May 15	1478	400	23	1892
Hartwich, Ferdinand F. and H. F., Onaga, Kans. Boring-machine	281,871	July 24	1936	529	24	356
Hartwich, Herman F. (See Hartwich, Ferdinand F. and H. F.)						
Harty, William, Johnstown, Pa. Rolling-mill	276,177	Apr. 24	1680	465	23	1538
Harty, William, Portsmouth, Ohio. Spring-testing machine	277,898	May 22	1694	462	23	1937
Harvey, Hayward A., Orange, N. J. Automatic nut-tapping machine	272,877	Feb. 27	1653	462, 463	23	752
Harvey, Hayward A., Orange, N. J. Nut and bolt	273,731	Mar. 13	637	169, 170	23	951
Harvey, Hayward A., Orange, N. J. Tap for cutting spiral wedge-nuts	274,492	Mar. 27	1631	452	23	1137
Harvey, Hayward A., Orange, N. J. Machine for rolling the threads of wood-screws	284,633	Sept. 11	579	163	24	1008
Harvey, Hayward A., Orange, N. J., assignor to Harvey Screw and Bolt Company, of Connecticut. Screw	288,798	Nov. 20	1271	348	25	744
Harvey, John, Brooklyn, N. Y., assignor to himself, J. Fitz, Martinsburg, W. Va., and W. J. Davis, Brooklyn, N. Y. Middlings-purifier	285,128	Sept. 18	1198	335, 336	24	1123
Harvey, Peter I., assignor of one-half to A. Clark and P. Kline, Amsterdam, N. Y. Feed-guide attachment for knitting-machines	279,380	June 12	972	269	23	2297
Harvey Screw and Bolt Company. (See Harvey, Hayward A., assignor.)						
Harvey, Willard H., Kingman, Me. Mosquito-guard	281,502	July 17	1455	399	24	269
Harwell, Seaborn H. B., Morgan County, Ga. Rat-trap	290,580	Dec. 18	1531	422	25	1171
Harwood Chair Seat Company. (See Harwood, Herbert J., assignor.)						
Harwood, Herbert J., Littleton, assignor to Harwood Chair Seat Company, Boston, Mass. Folding chair	275,206	Apr. 3	420	115	23	1298
Harwood, J. C., *et al.* (See Graham, Andrew, assignor.)						
Hasenpflug, Charles E., Paterson, N. J. Caster for trucks, &c	288,633	Nov. 20	1064	293	25	708
Hasenpflug, George. (See Rosentreter, Frank L., assignor.)						
Haskell, Charles S., Philadelphia, Pa. Steam-engine governor	285,892	Oct. 2	146	41	25	29
Haskell, Charles S., and W. B. Fleming, Philadelphia, Pa. Valve	288,331	Nov. 13	680	187	25	633
Haskell Company, William H. (See Cooper, Theodore, assignor.)						
Haskell, Elbridge F., Lawrence, Mass. Strainer for tea and coffee pots	286,813	Oct. 16	1297	352	25	251
Haskell, George W., assignor to G. W., W. H., and H. J. Haskell, Philadelphia, Pa. Thill-coupling	279,381	June 12	973	270	23	2297
Haskell, Henry J., *et al.* (See Haskell, George W., assignor.)						
Haskell, Joseph E., Chicago, Ill. Portable telescopic case	281,268	July 17	1163	321	24	219
Haskell, Luther D., Jr., Beverly, Mass. Fifth-wheel	288,799	Nov. 20	1273	349	25	744
Haskell, Thomas S., Springfield, Mass. Pan or stove-cover lifter	279,153	June 12	691	189	23	2251
Haskell, William H., *et al.* (See Haskell, George W., assignor.)						
Haskin, Chancey C., Waltham, assignor of two-thirds to J. E. Haskin and E. D. Mereness, Westside, Iowa. Car-coupling	288,800	Nov. 20	1274	349	25	744
Haskin, De Witt C., New York, N. Y. Construction of submarine tunnels	286,924	Oct. 16	1439	395	25	274
Haskin, James E., *et al.* (See Haskin, Chancey C., assignor.)						
Haskin, Uri, assignor to J. H. Dalzell, Pittsburg, F. G. Bates, Philadelphia, and G. H. Christy, Sewickley, Pa. Metal-straightening machine	273,682	Mar. 6	570	151	23	931
Haskins, Benjamin H., assignor of one-half to J. Young, Mechanicsville, N. Y. Automatic spittoon-holder	286,299	Oct. 9	660	176	25	130
Haskins, Charles D., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Electric lamp	283,482	Aug. 21	1227	345, 346	24	734
Haskins, Charles D., New York, N. Y., assignor to Western Electric Manufacturing Company, Chicago, Ill. Telephone-transmitter	286,923	Oct. 16	1438	395	25	274
Haskins, Harry S., assignor to E. Harrington & Son, Philadelphia, Pa. Hoisting-machine	272,439	Feb. 20	1076	303	23	643
Haslehurst, Theodore E. (See Park, James, assignor.)						
Hasler, Adolph, New York, N. Y. Sofa-bed	277,721	May 15	1479	400	23	1892
Haslup, William, Sidney, Ohio. Earth-scraper	278,953	June 5	416	114	23	2194
Haslup, William, Sidney, Ohio. Earth-scraper	284,418	Sept. 4	320	89	24	957
Haas, Theodore M., New York, N. Y. Album-clasp	277,722	May 15	1479	400	23	1892
Hass, Theodore M., New York, N. Y. Stop-hinge	284,008	Aug. 28	1888	529	24	865
Hassell, Richard L., Chicago, Ill. Indicating-poise for scale-beams	274,493	Mar. 27	1631	452, 453	23	1137
Hassell, Richard L., Chicago, Ill. Indicating scale-weight	274,494	Mar. 27	1634	453, 454	23	1137
Hasselman, Lewis W., Indianapolis, Ind. Straw-stacker	274,940	Apr. 3	72	20	23	1238
Hasselman, Lewis W., Indianapolis, Ind. Straw-stacker. (Reissue)	10,347	July 3	548	152, 153	24	97
Hasselman, Lewis W., Indianapolis, Ind. Clamp for securing turn-tables for straw-stackers	290,049	Dec. 11	841	238	25	1042
Hasselman, Lewis W., Indianapolis, Ind. Straw-stacker	290,050	Dec. 11	842	239	25	1042

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hassenforder, Charles. (See Huling, Charles C., assignor.)						
Hassenforder, Charles. (See Pearson, Robert P., assignor.)						
Hastings Concentratgr Company. (See Hastings, Emory B., assignor.)						
Hastings, E. Warren, Boston, assignor of one-third to R. J. Butterfield, Chelmsford, Mass. Awning	289,532	Dec. 4	199	56	25	991
Hastings, Edwin G., Nevada, Iowa. Grinding-mill	278,954	June 5	417	114	23	2195
Hastings, Emory B., assignor to Hastings Concentrator Company, Palmer, Mass. Magnetic apron-cylinder for ore-separating machines	290,182	Dec. 11	993	280	25	1070
Hastings, Glover S., Waterbury, Conn. Knife-handle	277,132	May 8	793	208	23	1767
Hastings, Michael, Brooklyn, N. Y. Stop-valve	271,067	Jan. 23	1533	442	23	312
Hastings, Todd & Schanck. (See Van Campen, Savillion, assignor.)						
Hat Curling Machine Company. (See Cocker, Frederick, assignor.)						
Hatch, Albert T. (See Hatch, Hyman and A. T.)						
Hatch, Anson, assignor of one-half to A. E. Schmidt, New Haven, Conn. Lubricating vertical bearings	280,742	July 3	490	138	24	87
Hatch, Edward P. (See White, Samuel K., assignor.)						
Hatch, Elias T., New York, N. Y. Apartment-house	288,332	Nov. 13	681	187	25	633
Hatch, George E., Meriden, assignor to Hartford Sanitary Plumbing Company, Hartford, Conn. Manufacture of glass bowls for water-closets	286,000	Oct. 2	271	76	25	51
Hatch, George T., and F. W. Riesenberg, Peoria, Ill. Reversing-gear for engines	287,023	Oct. 23	1576	434	25	304
Hatch, Hyman and A. T., South Elgin, Ill. Whiffletree-hook	271,632	Feb. 6	62	17	23	451
Hatch, James L., Rochester, N. Y. Counter-stiffener machine	286,432	Oct. 9	819	222	25	159
Hatcher, Edmund N. (See Emmick, Andrew C., assignor.)						
Hatcher, Isaiah G., Cleveland, Ohio. Pedestal for burial-caskets	283,885	Aug. 28	1711	492	24	833
Hatcher, William G., Atlanta, Ga. Picket-pointing machine	285,033	Sept. 18	1068	304	24	1104
Hatchman, Robert, Detroit, Mich. Fire-pot for stoves	283,602	Aug. 21	1365	381	24	759
Hatfield, George W., Dayton, Ohio. Oil-press box and pan	272,134	Feb. 13	689	188	23	571
Hatfield, Llewellyn T., Milan, Mo. Hay-rake	276,689	May 1	200	51	23	1658
Hatfield, Lyman, assignor of one-half to H. C. Ranney, Cleveland, Ohio. Car-coupling	272,135	Feb. 13	691	{188 189}	23	571
Hathaway, Byron A., Chicago, Ill. Combined chair and cutting-table	272,434	Feb. 20	1071	302	23	642
Hathaway, Charles L., Austin, Tex. Car-coupling	285,616	Sept. 25	1780	506	24	1235
Hathaway, Ellsworth C. (See Wright, Charles A., assignor.)						
Hathaway, George M., *et al.* (See Dey and Hathaway.)						
Hathaway, Henry H., Clockville, N. Y. Horse hay-rake	270,218	Jan. 9	468	137	23	102
Hathaway, Thomas J., Montevallo, Mo. Well-drilling machine	289,257	Nov. 27	1822	{503 504}	25	851
Hatheway, William S., Deansville, N. Y. Apparatus for deodorizing organic substances	278,955	June 5	419	114	23	2195
Hattabaugh, Isaac J. (See Jolly, George W., assignor.)						
Hattou, George. (See Hopkins and Hatton.)						
Hauce, William A., Springfield, Ohio. Hair-crimping tool	278,944	June 5	408	111	23	2193
Hauck, Albert, Jewett, Ohio. Peg-cutter	275,648	Apr. 10	1026	277	23	1409
Hauck, Edward J., Brooklyn, N. Y. Sheet-metal box	283,238	Aug. 14	915	255	24	670
Haugh, Ketcham & Co. (See Brown, William H., assignor.)						
Haugk, Carl, Wurzen, Saxony, Germany. Cigar-machine	289,412	Dec. 4	48	14	25	895
Haulenbeck, Henry C., Orange, N. J. Hat-cooling apparatus for blocking-machines	276,243	Apr. 24	1761	491	23	1559
Hauss, Charles F., Jr., Brownsville, Ind. Seeding device	281,269	July 17	1164	322	24	219
Hauss, Charles F., Jr., Brownsville, Ind. Seeding device	281,270	July 17	1165	322	24	219
Hauss, David J., T. E. McNamara, and J. S. Zerbe, assignors to American Union Electric Company, Cincinnati, Ohio. Electric-arc lamp	286,925	Oct. 16	1440	396	25	274
Haussman, Charles, New York, N. Y. Handle attachment to bowling-balls	287,927	Nov. 6	172	49	25	538
Hautin Sewing Machine Company. (See Wardwell, Simon W., Jr., assignor.)						
Havasy, Lucinius, New York, N. Y. Satchel and muff	273,523	Mar. 6	361	96	23	896
Havasy, Lucinius, New York, N. Y. Brush	273,524	Mar. 6	362	96	23	896
Havasy, Lucinius, New York, N. Y. Combined satchel and muff	284,298	Sept. 4	176	50	24	934
Havell, George, Newark, N. J. Button-hook	289,095	Nov. 27	1635	452	25	816
Haven, Egbert D., Albany, Oreg. Combined step-ladder and hoist	282,983	Aug. 14	596	{168 169}	24	613
Haven, James L. (See Mooney, John B., assignor.)						
Haven, James L., Cincinnati, Ohio. Tobacco-cutter	283,779	Aug. 28	1591	449	24	813
Havens, James S., Ogdensburg, N. Y. Gas-light reflector	271,451	Jan. 30	2021	583	23	405
Havens, William H., Paterson, N. J. Steam fire-engine	274,321	Mar. 20	1382	380	23	1087
Havens, William R., and J. W. Nesmith, Denver, Colo. Pig-iron breaker	272,249	Feb. 13	823	229	23	595
Haverty, Peter F., Shenandoah, Pa. Artificial stone	284,299	Sept. 4	176	.....	24	934
Haviland, Benjamin, and G. P. Gunn, assignors to H. M. Quackenbush, Herkimer, N. Y. Manufacturing felted slugs	290,230	Dec. 18	1063	298	25	1091
Haviland, John, Boston, Mass. Thill-coupling	289,413	Dec. 4	49	14	25	895
Hawes, Arnold C., Noroton, Conn. Wash-basin	279,943	June 26	1647	461	23	2425
Hawes, Arnold C., Noroton, Conn. Horseshoe	280,816	July 10	598	167	24	112
Hawes, Henry B., Grant, Pa. Stump-extractor	277,484	May 15	1202	323	23	1846
Hawes, Hervey K., *et al.* (See Leland, Edwin A., assignor.)						
Hawes, Levi M., Hampton Falls, N. H. Cattle-tie	273,986	Mar. 13	950	261	23	1004
Hawes, Levi M., Hampton Falls, N. H. Mowing and reaping machine	281,872	July 24	1937	530	24	356
Hawk, Hale E., Kansas City, Mo. Car-coupling	278,334	May 29	2270	621	23	2044
Hawk, Hale E., Kansas City, Mo. Car-coupling	280,743	July 3	491	139	24	87
Hawk, Hale E., Kansas City, Mo. Dredging and excavating machine	287,763	Oct. 30	2538	{683 684}	25	491
Hawkes, Lewis A. (See Hawkes, Timothy and L. A.)						
Hawkes, Timothy and L. A., Jersey City, N. J. Fountain attachment for pens	275,825	Apr. 17	1255	345	23	1456
Hawkey, John L., Cape May, N. J. Automatically-operating door	274,765	Mar. 27	1956	544	23	1195
Hawkins, Charlie S. (See Hawkins, William A. and C. S.)						
Hawkins, Frank S., Worcester, Mass. Power molding-machine	270,898	Jan. 23	1325	383	23	278
Hawkins, Henry R. (See Hawkins, William and H. R.)						
Hawkins, J. Wesley, Galion, Ohio. Lifting-jack	287,539	Oct. 30	2229	603	25	432
Hawkins, John T., Taunton, Mass. Printing-press	272,834	Feb. 20	1579	{443 444}	23	732
Hawkins, John T., Taunton, Mass. Printing-press	272,835	Feb. 20	1583	{444 445}	23	733
Hawkins, John T., Taunton, Mass. Gripper mechanism for printing-presses	281,763	July 24	1799	491	24	332
Hawkins, John T., Taunton, Mass. Printing-press	286,814	Oct. 16	1298	{353 354}	25	251
Hawkins, Lorenzo D., Stoneham, Mass. Eyeleting-machine	272,382	Feb. 13	996	278	23	624
Hawkins, Samuel K., assignor to Buckeye Brush Company, Cleveland, Ohio. Brush	277,899	May 22	1696	463	23	1938
Hawkins, William, Oregon, Mo. Wagon-seat top	270,060	Jan. 2	275	80	23	56

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hawkins, William and H. R., Oregon, Mo. Amalgamator	281,060	July 10	886	246, 247	24	164
Hawkins, William, San Francisco, Cal. Making insertible saw-teeth	280,617	July 3	334	93	24	59
Hawkins, William A. and C. S., Waxahachie, Tex. Car-coupling	272,435	Feb. 20	1073	302	23	642
Hawkins, William C., Lima, S. C. Plow	273,987	Mar. 13	951	262	23	1005
Hawkinson, Nels W., Litchfield, Minn. Feed-water adjustment for pumps	273,276	Mar. 6	37	12	23	841
Hawks, William, Millington, Mich. Hand corn-planter	275,486	Apr. 10	817	221	23	1374
Hawksworth, Thomas, Allegheny, Pa. Washing-machine	272,250	Feb. 13	824	230	23	595
Hawley, Alfred A. (See Davis and Hawley.)						
Hawley, Hiram C., Valley Falls, and J. I. Davis, Topeka, Kans. Device for loading cattle on railway-cars	274,192	Mar. 20	1214	334	23	1058
Hawley, Joseph R., Hartford, Conn. Charm-compass	280,817	July 10	599	167	24	112
Hawley, Theodore, assignor of one-half to E. W. Harral, Fairfield, Conn. Boot for carriages	279,944	June 26	1648	462	23	2426
Hawley, Theodore, assignor of one-half to E. W. Harral, Fairfield, Conn. Boot for carriages	279,945	June 26	1649	462	23	2426
Haworth, George D., Decatur, Ill. Seed-planter	270,319	Jan. 9	469	137	23	102
Haworth, George D., Decatur, Ill. Corn-planter check-line reel	277,030	May 8	653	170	23	1743
Haworth, George D., Decatur, Ill. Seed-planter	277,031	May 8	654	170	23	1744
Haworth, George D., Decatur, Ill. Seed-planter	283,780	Aug. 28	1592	450	24	813
Haworth, George D., Decatur, Ill. Seed-planter	283,781	Aug. 28	1594	450, 451	24	814
Haworth, George D., Decatur, Ill. Seed-planter	283,782	Aug. 28	1595	451	24	814
Haworth, Joseph. (See Kerr and Haworth.)						
Haws, William H., Johnstown, Pa. Covering for ladle stopper-rods	280,618	July 3	335	94	24	59
Hawthorn, John and P., and J. P. Liddell, Newtown, county of Chester, England. Apparatus for washing woven fabrics	274,766	Mar. 27	1957	544	23	1195
Hawthorn, John, J. P. Liddell, and P. Hawthorn, Newtown, county of Chester, England. Roller for stretching fabrics	281,503	July 17	1456	399	24	269
Hawthorn, Peter. (See Hawthorn and Liddell.)						
Hawthorn, Peter. (See Hawthorn, Liddell, and Hawthorn.)						
Hay, Alexander, Coshocton, Ohio. Sack-filler	282,984	Aug. 14	598	169	24	614
Hay, Edwin B. (See Smith, Israel S., assignor.)						
Hay, James, Sr. and Jr. (See Sawyer, Sylvester, assignor.)						
Hay, James A., and J. Ralston, Slippery Rock, Pa. Delivery-roller for circular-saw mills	273,072	Feb. 27	1880	528	23	790
Hay, John F., Erie, Pa. Mold for garden and other rakes	273,683	Mar. 6	572	152	23	932
Hayden, Albert E., assignor, by mesne assignments, to himself and E. C. Hayden, Holyoke, Mass. Shirt	284,634	Sept. 11	580	163	24	1008
Hayden Brass Company, Joel. (See Richards, Francis H., assignor.)						
Hayden, Eugene C. (See Hayden, Albert E., assignor.)						
Hayden, George D., Alton, Ill. Turning-lathe	287,673	Oct. 30	2412	650	25	469
Hayden, George D., Alton, Ill. Tamping-bar	290,422	Dec. 18	1324	367	25	1135
Hayden, Harris H., New York, N. Y. Store-service apparatus	273,526	Mar. 6	364	97, 98	23	896
Hayden, Harris H., New York, N. Y. Store-service apparatus	283,104	Aug. 14	754	212, 213	24	641
Hayden, Harris H., New York, N. Y. Store-service apparatus	283,239	Aug. 14	915	256	24	670
Hayden, Harris H., assignor to Automatic Parcel Delivery Company, New York, N. Y. Store-service apparatus	272,686	Feb. 20	1388	390	23	698
Hayden, Harris H., assignor to Automatic Parcel Delivery Company, New York, N. Y. Store-service apparatus	273,525	Mar. 6	362	97	23	896
Hayden, Harris H., assignor to Automatic Parcel Delivery Company, New York, N. Y. Store-service apparatus	277,276	May 8	951	255	23	1796
Hayden, Harris H., New York, N. Y., assignor to Lamson Cash Railway Company, Boston, Mass. Carrier for store-service apparatus	280,468	July 3	170	45	24	31
Hayden, Harris H., New York, N. Y., assignor to Lamson Cash Railway Company, Boston, Mass. Store-service apparatus	280,469	July 3	171	45	24	31
Hayden, Henry A., Baltimore, Md. Clasp for suspenders, &c	271,452	Jan. 30	9021	583	23	405
Hayden, Henry F. (See Morgan, Hayden, and Morgan.)						
Hayden, Henry F., Washington, D. C. Apparatus for generating and utilizing vapor or gas	274,595	Mar. 27	1759	488	23	1159
Hayden, Henry F., Washington, D. C. Generator for hydrocarbon vapor or gas	274,596	Mar. 27	1761	488	23	1159
Hayden, Henry F., Washington, D. C. Apparatus for generating gas from hydrocarbons and utilizing the same in furnaces	274,597	Mar. 27	1762	489	23	1160
Hayden, Henry F., Washington, D. C. Gas-furnace	274,598	Mar. 27	1765	489	23	1160
Hayden, Henry F., Washington, D. C., assignor of two-thirds to J. A. Logan, Illinois, and J. T. Morgan, Alabama. Hydrocarbon-generator	275,207	Apr. 3	421	115	23	1298
Hayden, Henry F., Washington, D. C., assignor of two-thirds to J. A. Logan, Chicago, Ill., and J. T. Morgan, Selma, Ala. Apparatus for generating gas and vapor from liquid hydrocarbons	277,567	May 15	1305	350	23	1861
Hayden, Henry F., assignor to International Vapor Fuel and Carbon Iron and Manufacturing Company, Washington, D. C. Apparatus for generating vapor from liquid hydrocarbons	278,792	June 5	158	46	23	2149
Hayden, Henry F., assignor to International Vapor Fuel and Carbon Iron and Manufacturing Company, Washington, D. C. Apparatus for generating vapor from liquid hydrocarbons	278,793	June 5	159	47	23	2149
Hayden, Henry F., assignor to International Vapor Fuel and Carbon Iron and Manufacturing Company, Washington, D. C. Apparatus for generating vapor from liquid hydrocarbons	279,154	June 12	692	189	23	2251
Hayden, J. O., *et al.* (See Williamson, George, assignor.)						
Hayden, Peter, New York, N. Y. Hame	287,282	Oct. 23	1903	520	25	364
Hayden, Peter, New York, and A. A. Boyd, Auburn, N. Y. Hame	272,251	Feb. 13	825	230	23	596
Hayden, William B., Columbus, Ohio. Hame	270,429	Jan. 9	733	216	23	152
Haydock, Thomas T. (See Bauer, Cornelius, assignor.)						
Haydock, Thomas T. (See Ohlsen Hans C., assignor.)						
Haydock, Thomas T. (See Rogers, Michael J., assignor.)						
Haydon, Walter T. (See Bushell and Haydon.)						
Haydon, William. (See Reiff, William H., assignor.)						
Hayes, Edwin A., New York, N. Y. Covering for steam-boilers	280,470	July 3	173	46	24	32
Hayes, Edwin A., New York, N. Y. Life-raft	281,689	July 24	1697	462	24	313
Hayes, Erastus. (See Parks and Sheffield, assignors.)						
Hayes, George, New York, N. Y. Metallic skylight	277,485	May 15	1203	323	23	1846
Hayes, George, New York, N. Y. Window-slat adjuster	279,155	June 12	693	190	23	2252
Hayes, George, New York, N. Y. Window-slat adjuster	279,156	June 12	694	190	23	2252
Hayes, George, New York, N. Y. Metallic skylight	280,034	June 26	1762	495	23	2446
Hayes, George, New York, N. Y. Transom-lifter	280,035	June 26	1762	495	23	2446

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hayes, George, New York, N. Y. Skylight	280,036	June 26	1763	495	23	2446
Hayes, George, New York, N. Y. Metallic skylight-bar	282,191	July 31	2359	649	24	431
Hayes, George, New York, N. Y. Machine for the manufacture of skylight-bars, window-sash bars, and moldings	289,096	Nov. 27	1636	452, 453	25	816
Hayes, Henry H., New York, N. Y. Powder-duster	277,900	May 22	1697	463	23	1938
Hayes, Michael C., Boston, Mass. Harness-saddle	284,419	Sept. 4	320	80	24	957
Hayes, Michael R., Syracuse, N. Y. Apparatus for heating salt-water preparatory to purifying and evaporating the same	273,988	Mar. 13	952	269	23	1005
Hayes, Philip, Waynetown, Ind. Trace-buckle	279,382	June 12	974	270	23	2297
Hayes, Plymnon S., Chicago, Ill. Chloride-of-silver battery	282,634	Aug. 7	194	56	24	534
Hayes, Thomas E. (See Campbell, Franklin P., assignor.)						
Hayes, Timothy, Anderson's Ferry, Ohio. Making and cooling mash	288,333	Nov. 13	681	187	25	634
Hayes, William, Jr., assignor to himself, S. D. Howland, Fall River, C. E. Cook, Dartmouth, and A. P. Smith, New Bedford, Mass. Mechanism for preventing the lapping of belts on shafting	272,687	Feb. 20	1390	390	23	698
Hayes, William L., Cleveland, Ohio. Punch-grinding machine	274,392	Mar. 20	1383	380	23	1087
Hayna, Clementina J. M., St. Louis, Mo. Air-feeding grate-bar	276,178	Apr. 24	1682	465	23	1538
Haynes, Andre S., Rome, N. Y. Spokeshave	273,073	Feb. 27	1881	528	23	791
Haynes, Charles F., Newton, Mass. Book-rest	289,632	Dec. 4	348	98	25	948
Haynes, Edgar K., assignor of one-half to G. W. Gregory, Boston, Mass. Filter	276,179	Apr. 24	1663	465	23	1539
Haynes, Edgar K., Boston, Mass., assignor to Boston Water Purifier Company, of Maine. Filter	282,313	July 31	2500	687	24	456
Haynes, Henry M., Saxonville, assignor to W. H. Bent, Wayland, Mass. Apparatus for flanging and upsetting soles	286,926	Oct. 16	1443	396	25	275
Haynes, Thomas, assignor to H. A. Dorr, Kansas City, Mo. Lock for reclining-chairs	289,653	Dec. 4	349	98	25	949
Hays, Charles W., Philadelphia, Pa. Velocipede	280,927	July 10	733	204	24	135
Hays, Elam, Clear Lake, Iowa. Water-proof paint	274,599	Mar. 27	1768	.....	23	1161
Hays, Henry T., Lexington, Ind. Grading-machine	276,583	May 1	53	15	23	1637
Hays, Moses. (See Zimmer, Henry, assignor.)						
Hayton, William, Canandaigua, N. Y. Collar-fastener	279,751	June 19	1408	393	23	2378
Hayward, Charles W. L., East Weymouth, Mass. Ironing-table	289,097	Nov. 27	1638	454	25	816
Hayward, Jennie H., Sidney, Me. Corset	276,397	Apr. 24	1967	544	23	1587
Hayward, John H. (See Johnson and Hayward.)						
Hazard, George S., Newport, Ky. Protective pad for picture-frames	280,818	July 10	600	168	24	112
Hazard, Henry T., Los Angeles, Cal. Measuring device for shot-pouches, powder-flasks, &c	276,690	May 1	200	51	23	1658
Hazard, Henry T., Los Angeles, Cal. Magazine fire-arm	279,242	June 12	780	215	23	2267
Hazel, William M., New York, N. Y. Button-fastening	272,836	Feb. 20	1587	446	23	733
Hazel, William M., New York, N. Y. Setting instrument for attaching buttons	278,012	May 22	1834	500	23	1961
Hazeland, Samuel S., Parish of St. Sampsons, county of Cornwall, England. Oar and oar-lock	281,873	July 24	1939	530	24	357
Hazelip, Joseph N., Baltimore, Md. Top for children's carriages	276,035	Apr. 17	1504	414	23	1500
Hazlehurst, Edward. (See Borsch, John L., assignor.)						
Hazeltine & Chantrell. (See Chantrell, John, assignor.)						
Hazen, Silas B., and G. L. Van Gorder, Winamac, Ind. Door-check	281,504	July 17	1457	399	24	269
Hazleton, Francis M., Red Bluff, Cal. Device for turning wrist-pins	280,471	July 3	174	46	24	32
Hazlett, Frederic B., assignor of two-thirds to L. Z. Farwell and F. Bartlett, Freeport, Ill. Telephonic annunciator	279,946	June 26	1650	462	23	2426
Heaberlin, Andrew J. (See Moore and Heaberlin.)						
Head, Joseph, Richmond, Va. Agitator for tan-vats	281,061	July 10	888	247	24	164
Head, Thomas, Lowell, Mass. Horseshoe	287,024	Oct. 23	1577	435	25	304
Headen, Frank, assignor of one-half to F. McAuley, Chicago, Ill. Machine for crozing staves	276,398	Apr. 24	1968	545	23	1587
Headlee, John A. (See Renfro, John N., assignor.)						
Heald, Joel, Oak Grove, Iowa. Check-row marker	282,888	Aug. 7	495	139	24	589
Heald, Lucinda M. (See Green and Heald.)						
Healey, Brierley D., Liverpool, county of Lancaster, England. Apparatus for melting and mixing bituminous compounds	277,277	May 8	952	256	23	1796
Healy, Michael L., assignor to himself, C. A. W. Weinberg, C. M. Babcock, and G. Bergstrom, Republic, Mich. Compound for tempering and hardening iron	290,423	Dec. 18	1325	.....	25	1135
Heap, David P., U. S. Army. Electric switch	281,363	July 17	1282	355	24	239
Heard, Henry, Greensborough, Ga. Millstone-driver	269,853	Jan. 2	42	13	23	10
Heard, Henry, Greensborough, Ga. Bush-box for spindles	269,854	Jan. 2	42	13	23	11
Heartley, George W., Toledo, Ohio. Spring-seat for vehicles	285,617	Sept. 25	1761	506	24	1235
Heartsill, Abram, Louisville, Tenn. Quilting attachment for sewing-machines	272,688	Feb. 20	1391	390, 391	23	698
Heath, Frank. (See Heath, Lawrence, assignor.)						
Heath, James S., assignor to J. O. Wisner, Son & Co., Brantford, Ontario, Canada. Spring-hoe	281,874	July 24	1940	530	24	357
Heath, Justus H., Mott's Corners, N. Y. Fire-escape ladder	280,373	July 3	41	11	24	9
Heath, Laban, Boston, Mass. Mattress	274,495	Mar. 27	1635	454	23	1138
Heath, Lawrence, Macedon, assignor of one-half to F. Heath, Rochester, N. Y. Fertilizer-distributer	285,483	Sept. 25	1618	454	24	1204
Heath, Mark A. (See Lynch and Heath.)						
Heath, Robert F. S., Camden, N. J. Hat, cap, and other head-wear	273,074	Feb. 27	1881	528	23	791
Heaton Button Fastener Company. (See Goodfellow, John H., assignor.)						
Heaton Button Fastener Company. (See Prentice, George W., assignor.)						
Heaton Button Fastener Company. (See Sweet, Parker H., Jr., assignor.)						
Heaton Button Fastener Company. (See Thayer, James F., assignor.)						
Heaton, Charles, Guilford, N. Y. Tool-handle	290,581	Dec. 18	1533	422	25	1171
Heaton, Henry, Cleveland, Ohio. Feed-water heater for locomotives	279,383	June 12	975	270	23	2297
Heaton, Henry, Cleveland, Ohio. Belt-fastener	289,414	Dec. 4	50	14	25	895
Heaton, William, Lee, Iowa. Animal-tethering device	283,240	Aug. 14	918	256	24	670
Heaverin, William H., assignor of five-eighths to W. H. Calvert and W. S. Burroughs, St. Louis, Mo. Car-coupling	279,752	June 19	1408	393	23	2378
Heavner, Andrew J., assignor of one-half to W. T. Smith, Pittsfield, Ill. Fire-escape	287,540	Oct. 30	2223	603, 604	25	433
Hebbard, Charles C., Knoxville, Tenn. Car-spring	290,582	Dec. 18	1534	422	25	1172
Hebbard, Henry H. (See Williams, Frank R., assignor.)						
Hebdon, William, New Brighton, assignor to American Cloth Workers Company, New York, N. Y. Method of and machine for shrinking, drying, and finishing cloth	276,036	Apr. 17	1505	414, 415	23	1500
Hebdon, William, New Brighton, assignor to American Cloth Workers Company, New York, N. Y. Machine for opening and measuring cloth	276,037	Apr. 17	1506	415	23	1500
Heberling, John, Mount Pleasant, Ohio, assignor to Heberling Running Stitch Sewing Machine Company. Running-stitch sewing-machine	284,300	Sept. 4	177	50	24	934
Heberling, John and W. L., Mount Pleasant, Ohio. Tension-release	287,928	Nov. 6	173	50	25	536

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Heberling Running Stitch Sewing Machine Company. (See Heberling, John, assignor.)						
Heberling, William L. (See Heberling, John and W. L.)						
Hebert, Arthur J., *et al.* (See Hébert, Louis H., assignor.)						
Hebert, Joseph J., *et al.* (See Hébert, Louis H., assignor.)						
Hebert, Joseph R., Brooklyn, N. Y. Sewing-machine	290,424	Dec. 18	1326	367	25	1135
Hébert, Louis H., St. Johns, Quebec, assignor of two-thirds to J. J. and A. J. Hebert, St. Henri, Canada. Car-brake	284,201	Sept. 4	56	15, 16	24	914
Hebner, Peter, Boonville, Ind. Fan attachment	275,208	Apr. 3	422	115	23	1298
Hebron, Benjamin, Cassopolis, Mich. Reaper and harvester	275,649	Apr. 10	1027	277	23	1410
Hechavarria, Bernardo C., *et al.* (See Montejo, Miguel A., assignor.)						
Hechavarria, Bernardo C., and M. A. Montejo, New York, N. Y. Head-wear	272,136	Feb. 13	692	189	23	571
Hecht, Bernard. (See Fiske, Bradley A., assignor.)						
Heckel, Henry, Cincinnati, Ohio. Making soap from fats and oils	273,(75	Feb. 27	1882	.....	23	791
Hecker, George V., New York, N. Y. Feed mechanism for roller-mills	287,126	Oct. 23	1703	466	25	329
Heckman, Daniel, Nazareth, Pa. Corn-planter	290,681	Dec. 25	1661	458, 459	25	1200
Heckman, Thomas M. (See Gilday and Heckman.)						
Hedden, Jotham E. (See Larter, Robert, assignor.)						
Hedden, William A. (See Greener, Richard, assignor.)						
Hedge, Hugh B., *et al.* (See Baker, George C., assignor.)						
Hedge, Hugh B. (See Likes, Hedge, and Baker.)						
Hedge, Hugh B., and T. A. Noble, assignors of one-third to M. R. Baker, Des Moines, Iowa. Wire-barbing machine	273,838	Mar. 13	774	210	23	975
Hedger, William A., Wheatland, Cal. Washing-machine	273,359	Mar. 6	157	44	23	861
Hedges, Dorothea, administratrix. (See Hedges, Isaac A.)						
Hedges, Elijah, Indianapolis, Ind. Head-rest for coffins	290,682	Dec. 25	1664	459	25	1200
Hedges, Hiram C., *et al.* (See Lewis, Henry G., assignor.)						
Hedges, Isaac A., deceased, D. Hedges, administratrix, and assignor to J. A. Field & Co., St. Louis, Mo. Bagasse-furnace	278,547	May 29	2526	689	23	2090
Hedges, Jonathan W., J. S. and T. J. Gill, Richwood, Ohio. Ditch and road scraper	281,875	July 24	1942	531	24	357
Hedges, Killingworth W., Westminster, county of Middlesex, England. Electric lighting	284,420	Sept. 4	321	89	24	957
Hedges, Samuel P., Greenport, N. Y. Potato-digger	271,068	Jan. 23	1534	443	23	312
Hedges, William H., Newark, N. J. Faucet	288,334	Nov. 13	682	188	25	634
Hedlund, Lars G., Rothsay, Minn. Car-coupling	286,001	Oct. 2	272	76	25	51
Hedrick, John M. (See Stansbury and Hedrick.)						
Hedrick Mason, assignor of one-half to H. C. Ward, Oakland City, Ind. Binder attachment for harvesters	290,619	July 3	336	94	24	60
Hedtmann, Wilhelm, assignor to A. Henkels, Langerfeld, Hagen, Germany. Braiding-machine	288,236	Nov. 13	550	152, 153, 154	25	613
Heebner, David S., *et al.* (See Heebner, Josiah D., assignor.)						
Heebner, David S., I. D., and W. D., Lansdale, Pa. Horse-power tread	285,129	Sept. 18	1199	336	24	1123
Heebner, David S., I. D., and W. D., Lansdale, Pa. Brake for machine-wagons	286,300	Oct. 9	661	176	25	130
Heebner, Isaac D. (See Heebner, David S., I. D., and W. D.)						
Heebner, Isaac D., *et al.* (See Heebner, Josiah D., assignor.)						
Heebner, Josiah D., Lansdale, Pa., assignor of one-half to D. S., I. D., and W. D. Heebner. Harvester-binder	278,956	June 5	490	114, 115, 116	23	2195
Heebner, William D. (See Heebner, David S., I. D., and W. D.)						
Heebner, William D., *et al.* (See Heebner, Josiah D., assignor.)						
Heebner, William D., *et al.* (See Nyce and Hunsicker, assignors.)						
Heermans, Thaddeus W., Chicago, Ill. Cut-off valve	286,002	Oct. 2	273	76, 77	25	51
Heeson, William H., Dudley, Pa. Grate-bar	282,192	July 31	2360	650	24	431
Heffernan, Matthew, Cleveland, Ohio. Wall-paper-hanging machine	272,436	Feb. 20	1073	302	23	643
Heffington, William. (See Hallett, William R., assignor.)						
Heffner, John, Hopewell township, and W. Kelly, Liberty township, Bedford county, Pa. Car-coupling	277,723	May 15	1480	400	23	1892
Heffner, John M. (See Heffner, William and J. M.)						
Heffner, William and J. M., Minneapolis, Minn. Combined stand-pipe and fire-escape	282,314	July 31	2502	688	24	456
Heft, Nathan H., Valley, N. J., assignor to S. M. Nash, Scranton, Pa. Tubular package for blasting-cartridges	278,957	June 5	424	116	23	2196
Hegglund, Oliver, Oakland, Nebr. Rabbet-planer	274,600	Mar. 27	1769	490	23	1161
Heginbothom, Joseph, Philadelphia, Pa. Knitting-machine	286,003	Oct. 2	274	77	25	52
Heidel, Gustavos, St. Louis, Mo. Automatic car-brake	274,767	Mar. 27	1960	545	23	1195
Heidel, Gustavos, St. Louis, Mo. Car-brake	275,650	Apr. 10	1028	277	23	1410
Heidel, Gustavos, St. Louis, Mo. Fire-escape	276,815	May 1	364	96	23	1690
Heidel, Gustavos, St. Louis, Mo. Horseshoe	280,819	July 10	601	168	24	112
Heidelmeier, Max, Chicago, Ill. Mouth-piece for speaking-tubes	280,374	July 3	42	12	24	10
Heidmeyer, Conrad J., Allegheny, assignor of one-fourth to S. Hartman, Pittsburg, Pa. Monument	271,453	Jan. 30	2022	584	23	405
Heilbrun, Louis I., New York, N. Y. Show-stand	284,202	Sept. 4	58	16	24	914
Heilman, Russel P. (See Perkins, Richard B., assignor.)						
Heilner & Strauss. (See Strauss, Henry S., assignor.)						
Heim, Joseph J., East St. Louis, Ill. Metallic hoop keeper	273,076	Feb. 27	1883	529	23	791
Heimann & Wall. (See Kendall, John L., assignor.)						
Heine, August. (See Holcomb and Heine.)						
Heineke, Dietrich, Brooklyn, N. Y. Rotating toy	275,209	Apr. 3	423	116	23	1299
Heineman, Harry M., San Francisco, Cal. Suspender-hook	276,244	Apr. 24	1763	491	23	1553
Heinemann, Theodore P., Connersville, Ind. Saw-guard	281,690	July 24	1699	462	24	314
Heinisch, Johann G., Belgard, Pomerania, Germany. Bridle	273,077	Feb. 27	1883	529	23	791
Heinle, Robert, Allegheny, Pa. Meter	287,283	Oct. 23	1904	521	25	365
Heinzheimer, Jacob, *et al.* (See Topmiller, Bernard, assignor.)						
Heise, Henry H. (See Arndt, Theophilus, assignor.)						
Heiser, Frederick S., New York, N. Y. Game-counter	282,725	Aug. 7	311	88	24	554
Heisler, Charles L., Wapakoneta, Ohio. Vegetable-cutter	287,127	Oct. 23	1704	467	25	329
Held, August S., Freeport, Ill. Drive-chain link	281,995	July 24	2083	572	24	381
Held, August S., assignor to M. Hettinger, C. O. Collmann, F. Gund, D. B. Schulte, J. Erfert, D. Kuehner, O. B. Sanford, C. H. Little, and F. Bartlett, Freeport, Ill. Drive-chain link	273,732	Mar. 13	638	170	23	951
Held, Charles W. (See Locke, Richard B., assignor.)						
Heldreth, Joseph W., and E. W. Umberger, Wytheville, Va. Churn mechanism	271,705	Feb. 6	141	39	23	464
Helios Electric Light Company of Maine. (See Brown and Bosworth, assignors.)						
Hellenbrand, Charles W., Salem, Oreg. Manufacture of candy	272,252	Feb. 13	826	230	23	596

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Heller, Cyrus, Williamsport, Pa. Printer's-ink case	273,969	Mar. 13	954	263	23	1005
Heller, Daniel C., Reading, assignor of one-half to W. Leaher, Mosserville, Pa. Pastry-board	271,706	Feb. 6	142	40	23	465
Heller, Levi D., Columbus, Ohio. Pen-support and hand-rest	281,876	July 24	1943	531	24	357
Hellhoff, Albert. (See Gruson and Hellhoff.)						
Helliwell, Thomas W., Brighouse, county of York, England. Glazing the roofs of horticultural structures	284,421	Sept. 4	322	89	24	957
Helmbacher Forge and Rolling Mills Company. (See Tidemann, Henry G., assignor.)						
Helman, Andrew, Winfield, Kans. Combined land-roller, clod-crusher, and harrow	289,258	Nov. 27	1823	504	25	851
Helman, Orlando A., Cincinnati, Ohio. Electric burglar-alarm	280,472	July 3	175	46	24	38
Helme, John W., Orland, Ind. Draft-equalizer	281,505	July 17	1457	399	24	269
Helmus, Adolph, and I. Dreyfuss, New York, N. Y. Frame for trimmings	286,697	Oct. 16	1159	312	25	226
Helms, Christian, Jr., *et al.* (See Clark, Henry, assignor.)						
Helsing, J. Jonas, San Francisco, Cal. Door-lock	282,517	Aug. 7	49	14, 15	24	508
Héme, Claude, Bay City, Mich. Salt-grainer	278,794	June 5	160	47	23	2150
Hemingray, Ralph G., Covington, Ky. Glass-batch mixer	290,771	Dec. 25	1784	493	25	1223
Hemje, Charles, Washington, D. C. Compressing pulverized material	287,128	Oct. 23	1706	467	25	389
Hemje, Charles, assignor of one-half to C. Abner, Washington, D. C. Metallic bushing	289,654	Dec. 4	350	98	25	949
Hemje, Charles, and T. C. Brecht, Washington, D. C. Machine for compressing plastic and other materials	279,384	June 12	976	271	23	2297
Hemje, Charles, and T. C. Brecht, Washington, D. C. Mold for manufacturing stoppers and bungs from paper-pulp, &c	279,869	June 19	1548	432, 433	23	2402
Hemler, Michael. (See Mosler and Hemler.)						
Hemler, Michael, assignor to Mosler Safe and Lock Company, Cincinnati, Ohio. Safe	284,423	Sept. 4	323	90	24	958
Hemmer, Frederick L. (See Sargood and Hemmer.)						
Hemminger, George. (See Goodhart and Hemminger.)						
Hemphill, Edward A., Elizabeth, N. J., assignor to Kiggins and Tooker Company, New York, N. Y. Memorandum-book	285,618	Sept. 25	1783	507	24	1235
Hemphill, Sylvester, Belmont, Wis. Harness attachment	286,004	Oct. 2	277	78	25	52
Hemphill, William. (See Bales and Jackson, assignors.)						
Hempstead, Edward. (See Stevens, John L., assignor.)						
Hempsted, Samuel W., Columbus, Ohio. Paint-oil	288,433	Nov. 13	816	.....	25	658
Henay, William H. (See Henay, William S. and W. H.)						
Henay, William S. and W. H., Concord, N. H. Ornamentation of surfaces	278,958	June 5	424	116	23	2196
Henchoz-Arnold, Auguste, and F. Henchoz-Huguenin, Locle, Switzerland. Stop-watch	272,545	Feb. 20	1207	337	23	666
Henchoz-Huguenin, Fritz. (See Henchoz-Arnold and Henchoz-Huguenin.)						
Hencken, George. (See Miller, Charles C., assignor.)						
Hendee, William G., Springfield, Mass. Stop-motion for spinning and twisting machines	279,870	June 19	1549	433	23	2403
Henderahot, Jonathan, Shirtsville, W. Va. Sawing-machine	271,454	Jan. 30	2022	584	23	405
Henderson, Avery, Upper Sandusky, Ohio. Bill-file	281,062	July 10	889	247	24	164
Henderson, Charles C. and J. R., Arkadelphia, Ark. Cloth-measuring machine	274,768	Mar. 27	1961	545	23	1196
Henderson, Ewen C. C., Pictou, and T. A. McDonald, Durham, Nova Scotia, Canada. Shoe-lace fastening	280,173	June 26	1910	537	23	2473
Henderson, George A. (See Ewing and Henderson.)						
Henderson, Henry A., Lynn, assignor to F. F. Raymond, 2d, trustee, Newton, Mass. Heel-trimming machine	281,691	July 24	1700	462, 463	24	314
Henderson, Jacob R. (See Henderson, Charles C. and J. R.)						
Henderson, James, Bellefonte, Pa. Manufacture of iron and steel	274,889	Mar. 27	2107	.....	23	1290
Henderson, James, Bellefonte, Pa. Manufacturing iron, steel, &c.	278,013	May 22	1836	.....	23	1961
Henderson, James, Bellefonte, Pa. Compound for furnace-linings and fire-brick	279,157	June 12	695	.....	23	2252
Henderson, James, Bellefonte, Pa. Compound for furnace-linings and fire-brick	279,158	June 12	695	.....	23	2252
Henderson, James, Bellefonte, Pa. Compound for furnace-linings and fire-brick	279,159	June 12	696	.....	23	2252
Henderson, James, Bellefonte, Pa. Compound for furnace-linings and fire-brick	279,160	June 12	697	.....	23	2252
Henderson, James, Bellefonte, Pa. Hardening fire-brick	279,161	June 12	698	.....	23	2252
Henderson, James, Bellefonte, Pa. Furnace and art of working the same	281,063	July 10	889	247, 248	24	165
Henderson, James, Bellefonte, Pa. Furnace for the manufacture of iron and steel and for other purposes	282,315	July 31	2503	688	24	457
Henderson, James, Bellefonte, Pa. Purifying iron and condensing the products	283,241	Aug. 14	919	.....	24	671
Henderson, James, Bellefonte, Pa. Condensing certain gaseous compounds	283,342	Aug. 14	1048	295	24	696
Henderson, James, Bellefonte, Pa. Manufacturing iron and steel	283,483	Aug. 21	1229	.....	24	734
Henderson, James, Bellefonte, Pa. Manufacturing iron and steel	283,484	Aug. 21	1231	346	24	734
Henderson, James, Bellefonte, Pa. Basic process of manufacturing iron and steel	283,783	Aug. 28	1597	.....	24	814
Henderson, James, Bellefonte, Pa. Annealing cast steel or iron	284,550	Sept. 4	472	.....	24	985
Henderson, James, Bellefonte, Pa. Purifying solid iron, producing therefrom malleable iron or steel without fusion	284,551	Sept. 4	473	.....	24	985
Henderson, James, Bellefonte, Pa. Basic process of manufacturing iron and steel	284,552	Sept. 4	475	.....	24	985
Henderson, James, Bellefonte, Pa. Basic process of manufacturing iron and steel	284,553	Sept. 4	476	.....	24	985
Henderson, James, Bellefonte, Pa. Basic process of manufacturing iron and steel	284,554	Sept. 4	477	.....	24	985
Henderson, James, Bellefonte, Pa. Furnace and working the same. (Reissue)	10,399	Oct. 30	2576	692	25	499
Henderson, James, assignor, by mesne assignments, to C. G. Francklyn, New York, N. Y. Purifying iron by means of fluorides and condensing the gaseous products therefrom	279,947	June 26	1650	462, 463	23	2426
Henderson, James, assignor of one-half to C. G. Francklyn, New York, N. Y. Manufacturing iron and steel	280,310	June 26	2063	.....	23	2504
Henderson, James, assignor of one-half to C. G. Francklyn, New York, N. Y. Furnace for manufacturing iron and steel	281,764	July 24	1801	491	24	332
Henderson, John. (See Coombes, Joseph A., assignor.)						
Henderson, John C., *et al.* (See Wass, Dyson D., assignor.)						
Henderson, John H., and E. Schutz, Sierra Buttes, Cal. Revolving sprinkler	270,664	Jan. 16	1037	297	23	219
Henderson, Roger S., and A. Sanders, Philadelphia, Pa. Balance door-hanger	279,442	June 12	1045	220	23	2309
Henderson, S. E. (See Frost, Warren H., assignor.)						
Henderson, Thomas, Nashville, Tenn. Flushing-tank for water-closets, urinals, &c	283,105	Aug. 14	757	213	24	641
Henderson, William C., Sulphur Springs, Tex. Sulky-plow	286,433	Oct. 9	821	223	25	160
Hendley, William, assignor to G. P. Goff, Washington, D. C. Conduit for underground lines for telegraph and other wires	281,064	July 10	893	248, 249	24	165
Hendley, William, assignor to G. P. Goff, Washington, D. C. Ventilating-conduit for electric wires and adjusting the wires in same	281,290	July 10	1093	301, 302	24	200
Hendrick, Obadiah, Macon, Miss. Syringe	277,568	May 15	1306	350	23	1862
Hendricks, Adam C., Duffield's, assignor of one-half to H. S. Shepherd, Shepherdstown, W. Va. Fertilizer-distributer and grain-drill	272,546	Feb. 20	1208	337	23	666
Hendricks, Adam C., Duffield's, assignor of one-half to H. S. Shepherd, Shepherdstown, W. Va. Fertilizing grain-drill	272,547	Feb. 20	1209	338	23	666
Hendricks, Clarke, assignor of one-half to J. R. Fenn, Modesto, Cal. Car-coupling	285,262	Sept. 18	1354	382	24	1152

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hendrickson, Joseph G. (See Clamer, Francis J., assignor.)						
Hendrickson, Joseph G. (See Clamer and Hendrickson.)						
Hendrickson, Joseph G. (See Delaplaine, Hendrickson, and Clamer.)						
Hendrickson, Stephen C., Brooklyn, N. Y., assignor to Union Switch and Signal Company, Pittsburg, Pa. Electric railway-signal	276,038	Apr. 17	1507	415	23	1500
Hendrickson, Zachariah, Syracuse, Ind. Velocipede	280,473	July 3	175	46	24	32
Hendry, Alfred J., Darlot, Ga. Ventilation	287,434	Oct. 30	2093	569	25	406
Hendryx, Andrew B., New Haven, Conn. Bird-cage	277,724	May 15	1481	401	23	1892
Hendryx, Andrew B., New Haven, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Chain-pulley	285,263	Sept. 18	1355	382	24	1152
Henestrosa, Ignacio, Madrid, Spain. Mechanical pen	270,061	Jan. 2	276	80, 81	23	56
Henius, Max W., Waterbury, Conn. Button	270,665	Jan. 16	1039	298	23	219
Henius, Max W., Waterbury, Conn. Corset-clasp	278,430	May 29	2388	651	23	2066
Henkels, Albert. (See Hedtmann, Wilhelm, assignor.)						
Henkle, Eli J., Baltimore, Md. Gate for railway-crossings	287,674	Oct. 30	2413	651	25	469
Henley, George, *et al.*, executors. (See Henley, William T.)						
Henley, Micajah C., Richmond, Ind. Screw-driver	285,484	Sept. 25	1619	454	24	1204
Henley, William J., and S. T. Axtell, Oswego, N. Y. Oar for ice-boats	288,801	Nov. 20	1275	349	25	744
Henley, William T., deceased, Plaistow, county of Essex, England; G. Henley and S. Gedge, executors. Telegraph-cable	286,698	Oct. 16	1161	312	25	226
Henn, Charles M., Chicago, Ill. Toy bank	271,200	Jan. 23	1697	490	23	338
Henneberg, Henry, assignor to A. Shoeninger, Chicago, Ill. Christmas-tree holder	283,392	Aug. 21	1118	316	24	714
Hennebutte, Henri J. E. (See Menard and Hennebutte.)						
Hennessy, Thomas, Oakland, Cal. Stop-valve	273,839	Mar. 13	776	210	23	975
Hennick, P. Victor, Buffalo, N. Y. Smut-machine	276,584	May 1	54	15	23	1637
Henning, William B., Waterloo, assignor of one-fourth to J. B. Casebeer and T. G. Matheny, Auburn, Ind. Constructing roads, sidewalks, &c. (Reissue)	10,388	Sept. 25	1997	565	24	1270
Henninger, George J., Allentown, Pa. Compound for cooling and lubricating journals	288,054	Nov. 6	332	.....	25	564
Henninger, Julius, Blue Island, assignor of one-half to H. W. Joseph, Chicago, Ill. Corset	270,062	Jan. 2	277	82	23	57
Henninger, Julius, Blue Island, assignor, by mesne assignments, to E. R. Church, Chicago, Ill. Flour-sifter	277,278	May 8	954	256	23	1797
Henrich, Heinrich, assignor to R. Henrich, New York, N. Y. Finger-ring	274,193	Mar. 20	1215	334	23	1059
Henrich, Heinrich, assignor to R. Henrich, New York, N. Y. Finger-ring	278,959	June 5	425	116	23	2196
Henrich, Rosa. (See Henrich, Heinrich, assignor.)						
Henrichs, Peter, Fargo, Dak. Ter. Bottle-stopper and draft-nozzle	276,816	May 1	365	97	23	1690
Henris, John E., Collegeville, Cal. Seeder and cultivator	272,046	Feb. 13	574	155	23	551
Henry, Andrew L., Ladoga, Ind. Sifter	281,364	July 17	1283	355	24	239
Henry, Charles J. (See Simmons and Henry.)						
Henry, Frank. (See Craige and Henry.)						
Henry, George W. (See Hammond, George W., assignor.)						
Henry, James A., Platteville, Wis. Solvent for paints, oils, and varnishes	275,381	Apr. 10	681	.....	23	1351
Henry, John B. (See Boyér and Henry.)						
Henry, John C., assignor of one-half to L. W. Towne, P. F. Clinton, Kansas City, Mo., and J. L. Barnes, Lawrence, Kans. Speed-governor	270,430	Jan. 9	734	216	23	152
Henry, John C., assignor of one-half to L. W. Towne, P. F. Clinton, Kansas City, Mo., and J. L. Barnes, Lawrence, Kans. Speed-recorder	270,431	Jan. 9	736	216, 217	23	153
Henry, John J., assignor of one-half to G. A. Schall, Baltimore, Md. Roller-skate	284,009	Aug. 28	1889	529	24	865
Henry, John S. (See Moomy, Joseph G., assignor.)						
Henry, Robert G. (See Crittenden and Henry.)						
Hensel, George F. (See Kienzle, John G., assignor.)						
Henshaw, George. (See Strachan and Henshaw.)						
Henshaw, Willis C., East Hamburg, N. Y. Wire-stretcher	279,948	June 26	1652	463	23	2426
Henson, Robert J., Cairo, Ill. Sawing-machine	290,425	Dec. 18	1327	368	25	1135
Henson, William S., Newark, N. J. Cleaning cisterns	277,486	May 15	1204	323	23	1846
Henszey, William P., *et al.* (See Wilder and Parry, assignors.)						
Henwood, Horace E., New York, N. Y. Thill-coupling	278,960	June 5	426	117	23	2196
Henwood, John, Philadelphia, Pa. Double-acting pump	277,279	May 8	954	256	23	1797
Henwood, John, assignor to himself, J. C. Whitaker, and C. R. Scull, Philadelphia, Pa. Direct-action steam-pump	284,010	Aug. 28	1889	529, 530	24	865
Hepburn, Lewis L., Ilion, N. Y. Breech-loading gun	290,426	Dec. 18	1328	368	25	1136
Hepfinger, Jacob. (See Green, Alexander, assignor.)						
Hepp, Eduard, assignor to K. Oehler, Offenbach-on-the-Main, Germany. Manufacture of blue dye-stuff or coloring-matter	270,311	Jan. 9	572	.....	23	122
Hepp, Daniel, Chicago, Ill. Pen-holder	276,399	Apr. 24	1969	545	23	1587
Hequembourg, Charles E., Dunkirk, N. Y. Regenerative gas-heater	286,301	Oct. 9	602	176	25	130
Herb, Ernst H., *et al.* (See Schwarzwalder, Henry, assignor.)						
Herbert, Henry, assignor to J. D. Abraham, Cincinnati, Ohio. Pipe tongs and cutter	287,378	Oct. 23	2021	549	25	385
Herbert, William B., New York, N. Y. Manufacturing decorated tiles, plaques, &c.	273,527	Mar. 6	367	.....	23	897
Herboth, Ferdinand, Newark, N. J. Wool-oiling apparatus	287,025	Oct. 23	1578	435	25	305
Herbrand Company. (See Herbrand, Jacob, assignor.)						
Herbrand, Jacob, assignor to Herbrand Company, Fremont, Ohio. Drop-perch for vehicles	276,967	May 1	567	148	23	1723
Herbrand, Jacob, assignor to Herbrand Company, Fremont, Ohio. Running-gear for vehicles	277,725	May 15	1483	401	23	1893
Herder, Rudolph H., Topeka, Kans. Vinegar-generator	288,055	Nov. 6	333	93	25	564
Hering, Benjamin S., Cambridge, Ohio. Hotel-indicator	275,210	Apr. 3	424	116	23	1299
Hering, Carl O. (See Goodsell, Adamson, and Hering.)						
Heritage, Charles. (See Heritage, Joseph, assignor.)						
Heritage, Joseph, assignor to C. Heritage, Warren, Mass. Screw-jack	279,753	June 19	1410	394	23	2378
Herkimer, Jacob, assignor of one-fourth to R. V. Stanley, Chicago, Ill. Loop-clamp for holding traces, &c	279,385	June 12	978	271	23	2298
Herlick, John S. (See Greene and Herlick.)						
Herman, Addison M., assignor to himself and J. P. Hart, Jr., Newtonia, Mo. Tilting barrel or bin	281,506	July 17	1458	400	24	269
Herman, Adolph E., Ravenna, Ohio. Spring-vehicle	288,634	Nov. 20	1066	293	25	708
Herman, Henry, *et al.* (See Shields, Francis M., assignor.)						
Hermann, Adolph E., Ravenna, Ohio. Spring-vehicle	277,032	May 8	655	171	23	1744
Hermundson, Albert, Misha Mokwa, Wis. Curry-comb	276,817	May 1	366	97	23	1690
Herr, August W., Chicago, Ill. Vault cover and ventilator	284,203	Sept. 4	60	17	24	915
Herr, Frank K. and S. K., Westminster, Md. Vehicle-body	274,769	Mar. 27	1963	545	23	1196
Herr, Samuel K. (See Herr, Frank K. and S. K.)						
Herrens, Michael, St. Louis, Mo. Car-replacer	283,784	Aug. 28	1598	451	24	814
Herreshoff, John B. F., Brooklyn, assignor to himself, G. H. and W. H. Nichols, New York, N. Y. Copper-smelting furnace	273,840	Mar. 13	777	211	23	975

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr's.	Vol.	Page.
Herreshoff Manufacturing Company. (See Herreshoff, Nathaniel G., assignor.)						
Herreshoff, Nathaniel G., Bristol, R. I., assignor to Herreshoff Manufacturing Company, of Rhode Island. Valve-gear for steam-engines	280,311	June 26	2085	587	23	2504
Herreshoff, Nathaniel G., Bristol, R. I., assignor to Herreshoff Manufacturing Company, of Rhode Island. Steam-engine valve	280,312	June 26	2086	587	23	2504
Herrick, Edwin T., Providence, R. I. Automatic clutch for elevators	274,770	Mar. 27	1963	546	23	1196
Herrick, Gamaliel E. (See Davis, Zebulon, assignor.) (Reissue.)						
Herrick, George W., assignor to Peninsular Stove Company, Detroit, Mich. Coal-fork	272,137	Feb. 13	693	189	23	572
Herrick, James A., Cleveland, Ohio. Core for casting steel	282,518	Aug. 7	50	15	24	509
Herrick, William H., Grinnell, Iowa. Apparatus for distilling water and other fluids	284,011	Aug. 28	1891	530	24	865
Herrick, William H., Grinnell, Iowa. Door-check	289,259	Nov. 27	1895	504	25	852
Herring, Andrew J., Bozeman, Montana Ter. Packing and storing box	287,435	Oct. 30	2094	569	25	406
Herring, Elijah R., assignor of one-half to D. H. Glenn, Westminster, S. C. Horse-detacher	287,284	Oct. 23	1905	521	25	365
Herring, Henry M., North Attleborough, Mass. Ornamental chain	273,733	Mar. 13	639	170	23	952
Herring, Henry M., assignor to F. L. Shepardson & Co., North Attleborough, Mass. Bracelet-chain	271,845	Feb. 6	314	86	23	496
Herring, John. (See Hickok, Stephen O., assignor.)						
Herring, Lewis, *et al.* (See Fairchild, George S., assignor.)						
Herring, William A., Allen, Mich. Evaporator	287,026	Oct. 23	1579	435	25	305
Herrington, George H., Wichita, Kans. System of delivery and transportation	280,620	July 3	338	94	24	60
Herrington, Henry D., Hoosic, N. Y. Potato-planter	288,237	Nov. 13	556	154, 155	25	613
Herrman, Louis, and J. B. Lavin, Boston, Mass., assignors to themselves and L. J. Herrman. Car-coupling	278,014	May 22	1837	501	23	1961
Herrman, Louis, assignor to M. Herrman, Boston, Mass. Car-coupling	285,813	Oct. 2	39	13	25	9
Herrman, Louis J. (See Herrman and Lavin, assignors.)						
Herrman, Mary. (See Herrman, Louis, assignor.)						
Herrmann, Fred W., Atlantic, Iowa. Harrow-tooth holder	289,260	Nov. 27	1826	504	25	852
Herrmann, John and P., Evansville, Ind. Wagon-axle	287,675	Oct. 30	2414	651	25	469
Herrmann, Louis A. F., Paris, France. Electric cable or conductor	280,474	July 3	176	47	24	32
Herrmann, Peter. (See Herrmann, John and P.)						
Herron, Hiram C., Cleveland, Ohio. Portable roof	284,846	Sept. 11	847	238	24	1054
Herron, James, *et al.* (See Herron, Michael, assignor.)						
Herron, John, *et al.* (See Herron, Michael, assignor.)						
Herron, John, and R. T. Wray, Dunbar, Pa. Coke-oven door and frame therefor	287,285	Oct. 23	1906	521	25	365
Herron, Michael, assignor of two-thirds to J. and J. Herron, Bordentown, N. J. Chain-wheel for sand-dredgers	274,601	Mar. 27	1769	490	23	1161
Herron, Rufus H., *et al.* (See Hunzeker, Rudolph S., assignor.)						
Herron, Samuel, Coalton, Ky. Miner's pick	286,815	Oct. 16	1301	354	25	251
Herron, William A., *et al.* (See Hunzeker, Rudolph S., assignor.)						
Herschel, William D., assignor to M. A. Humphreys, Philadelphia, Pa. Trammel	272,047	Feb. 13	576	156	23	552
Hersee, Thompson, Buffalo, N. Y. Car-brake	279,798	Jan. 16	1201	347	23	250
Hersey, Cyrus W., Peabody, Mass. Whiffletree	281,065	July 10	895	249	24	165
Hersey, Elias, *et al.* (See Bowie, Orin R., assignor.)						
Hersey, F. L. (See Womelsdorff, James W., assignor.)						
Hershberger, Daniel, assignor of one-half to J. Brunner, Millville, Ind. Automatic gate	281,692	July 24	1704	463	24	315
Hershey, Benjamin, Erie, Pa. Ore-separator	289,261	Nov. 27	1828	505	25	852
Hershey, Benjamin, and C. A. Hitchcock, Erie, assignors of one-half to J. A. Ege and B. F. Thornton, Bradford, Pa.; said Hershey assignor of one-twentieth to said Hitchcock. Ore-separator	276,534	Apr. 24	2133	594	23	1615
Hershey, Christian H., Philadelphia, Pa. Holder for towels, napkins, &c	275,040	Apr. 3	909	57	23	1262
Hershey, Martin E., Harrisburg, Pa. Reversing-gear for steam-engines	285,812	Oct. 2	38	13	25	9
Hershey, Martin E., Harrisburg, Pa. Draft attachment for portable engines	289,098	Nov. 27	1639	454	25	816
Hersom, M. V. B., *et al.* (See Weale, Henry P., assignor.)						
Herts, Abram C., Philadelphia, Pa. Lady's dress	280,174	June 26	1911	537	23	2473
Hervey, Nelson B., Santa Rosa, Cal. Device for removing tires	275,909	Apr. 17	1356	373	23	1474
Herwig, Philip F. (See Brigg, William W., assignor.)						
Herzig, Emil. (See Weller, Chester A., assignor.)						
Herzog, F. Benedict, New York, N. Y. Telephone signaling apparatus	289,834	Dec. 11	577	161, 162	25	994
Herzog, F. Benedict, assignor of one-half to J. O. Noakes, New York, N. Y. Thill-coupling	282,080	July 31	2197	603	24	406
Herzog, F. Benedict, assignor to E. E. Oudin, New York, N. Y. Imitation stained glass	286,434	Oct. 9	822	223	25	160
Herzog, Philip, Minneapolis, Minn. Armor for prison-cells	271,633	Feb. 6	69	17	23	451
Hesch, Jacob, Titusville, Pa. Apparatus for boiling acids and chemicals	275,041	Apr. 3	210	57	23	1269
Hess, Albert T., Des Moines, Iowa. Electric hotel-annunciator and fire-alarm	271,707	Feb. 6	143	40	23	465
Hess, Albert T., Des Moines, Iowa. Electric hotel-annunciator and fire-alarm	288,570	Nov. 13	980	269, 270	25	686
Hess, Alfred. (See Shoemaker and Hess, assignors.)						
Hess, Bernhard, Baireuth, Bavaria, Germany. Manufacture of artificial stone and artificial emery	283,603	Aug. 21	1365	.....	24	750
Hess, Charles A. (See Gruenebaum, Jacob, assignor.)						
Hess, Elmer J. (See Shoemaker and Hess.)						
Hess, J. Theodore, *et al.* (See Ainsworth, Robert H., assignor.)						
Hess, Julius, Detroit, Mich. Refrigerator-room	285,893	Oct. 2	147	42	25	29
Hess, William L., Belle Plaine, Iowa. Combined stove-pipe drum, shelf, and damper	272,048	Feb. 13	576	156	23	552
Hesse, Frederick G., Oakland, Cal. Fluid-pressure gage	275,765	Apr. 10	1176	322, 323	23	1435
Hesse, Frederick G., Oakland, Cal. Fluid-meter	282,985	Aug. 14	599	169	24	614
Hessel, John F., Champaign, Ill. Harness-pad	286,435	Oct. 9	824	223	25	160
Hesseltine, Francis S., Melrose, Mass. Umbrella-holder	287,676	Oct. 30	2414	651	25	469
Hesser, Charles F., *et al.* (See Gearing, Charles, assignor.)						
Hessler, George W., Scranton, Pa. Wall-pocket	279,754	June 19	1410	394	23	2378
Hester, Abraham and H. L., Concord, Mich. Sheep-feeding device	284,301	Sept. 4	179	51	24	934
Hester, Henry L. (See Hester, Abraham and H. L.)						
Hester, Joseph G., assignor to J. Lansburgh, Washington, D. C. Pen-holder	276,535	Apr. 24	2136	594	23	1616
Hester, Joseph G., assignor to J. Lansburgh, Washington, D. C. Writing-pen and holder	278,239	May 22	2115	583	23	2010
Hesthal, August, San Francisco, Cal. Preparing skins	282,316	July 31	2506	.....	24	457
Heston, David, assignor to Brown, Heston & Co., Philadelphia, Pa. Paper box	279,755	June 19	1411	394	23	2379
Heston, David, assignor to Brown, Heston & Co., Philadelphia, Pa. Paper box	279,756	June 19	1412	394	23	2379
Heston, David, and D. J. Brown, assignors to Brown, Heston & Co., Philadelphia, Pa. Paper box	279,757	June 19	1413	395	23	2379
Heston, William, Mount Union, Ohio. Oiling-pump for steam-engines	271,238	Jan. 30	1741	503, 504	23	355

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Heston, William, Mount Union, assignor of one-half to J. E. Ingersoll, Bedford, Ohio. Vapor-burner	270,587	Jan. 16	936	271	23	201
Hetfield, Levi, Plainfield, N. J. Dumping-car	280,621	July 3	339	95	24	60
Hettinger, M., *et al.* (See Held, August S., assignor.)						
Hettinger, Matthias, *et al.* (See Tobias, Cyrus, assignor.)						
Heunsch, Rudolph, assignor of one-half to M. Goldsmith, Washington, D. C. Winding-indicator for watches	289,533	Dec. 4	200	56, 57	25	921
Heusch, Anton. (See Winnen and Heusch.)						
Heusser, Kate, *et al.* (See Hartman, Henry, assignor.)						
Heverling, John B., assignor to H. Zegenhine, St. Louis, Mo. Machine for shaping barrel-staves	283,886	Aug. 28	1712	492	24	833
Hewett, Lewis W., New York, N. Y., and S. J. Leonard, assignors to P. B. Shaw, Williamsport, Pa. Car-starter	275,211	Apr. 3	425	116, 117	23	1299
Hewett, Lewis W., New York, N. Y., and T. Millen, Jersey City, N. J., assignors to P. B. Shaw, Williamsport, Pa. Car-starter	280,744	July 3	492	139	24	87
Hewins, Herbert L. (See Lothrop and Hewins.)						
Hewitt, Edward, deceased, New York, N. Y., M. Hewitt, administratrix. Plate-printing and embossing machine	272,878	Feb. 27	1656	463, 464	23	752
Hewitt, Minnie, administratrix. (See Hewitt, Edward.)						
Hewitt, Robert, Jr. (See Clarke, Charles L., assignor.)						
Hewitt, Robert, Jr., New York, N. Y. Electric temperature-indicator	281,877	July 24	1943	531	24	358
Hewitt, William, London, Ontario, Canada. Lightning-rod joint	287,286	Oct. 23	1907	521	25	365
Hewitt, William, London, Ontario, Canada. Lightning-rod coupling	287,929	Nov. 6	174	50	25	538
Hewitt, William, assignor to Trenton Iron Company, Trenton, N. J. Making barbed fence-wire	276,039	Apr. 17	1510	416	23	1501
Hewlett, Francis L. (See Chamberlin, Volney R., assignor.)						
Hewlett, Oscar H., and C. A. Needham, assignors to E. P. and C. A. Needham, New York, N. Y. Cash-carrier	273,841	Mar. 13	778	211	23	975
Hewson, William S., assignor to L. G. Burnham, J. G. Reed, and T. S. Peck, Burlington, Vt. Coal and ash sifter	284,847	Sept. 11	848	238	24	1055
Hey, George W., *et al.* (See Bustin, John H., assignor.)						
Hey, George W., assignor of one-half to C. H. Duell, Syracuse, N. Y. Door-hanger	271,980	Feb. 6	486	131	23	525
Hey, George W., assignor of one-half to C. H. Duell, Syracuse, N. Y. Door-hanger	271,981	Feb. 6	488	132	23	525
Hey, George W., assignor of one-half to C. H. Duell, Syracuse, N. Y. Cheese-hoop	277,838	May 15	1617	441	23	1917
Hey, George W., assignor of one-half to C. H. Duell, Syracuse, N. Y. Cheese-press	277,839	May 15	1619	441	23	1918
Hey, George W., assignor of one half to C. H. Duell, Syracuse, N. Y. Trunk-hinge	282,635	Aug. 7	195	56	24	534
Hey, George W., assignor of one half to C. H. Duell, Syracuse, N. Y. Door-hanger	286,539	Oct. 9	946	255	25	182
Hey, James H., assignor of one-half to W. S. Forshee and J. W. McMakin, Cincinnati, Ohio. Clothes-washer	273,360	Mar. 6	158	45	23	861
Hey, James H., and A. N. Verdin, Cincinnati, Ohio. Feed-bag for horses	285,814	Oct. 2	40	13	25	9
Heybrock, Lewis G., Omaha, Nebr. Steam-tuyere	270,063	Jan. 2	278	82	23	57
Heyd, Hermann, Hohebuch, Würtemberg, Germany. Car-brake	289,534	Dec. 4	203	57	25	922
Heyer, Ludwig, assignor to F. O. Spielhagen, Berlin, Germany. Preparing water-tight fabrics	288,635	Nov. 20	1066	.....	25	708
Heyl, Frederick, Irvington, assignor to G. D. Drake, Newark, N. and M. S. Drake, Irvington, N. J. Chamber-pail and other vessels. (Reissue)	10,369	Aug. 21	1531	432	24	791
Heyl, Henry R., Philadelphia, Pa. Suspension device	284,129	Aug. 28	2036	566	24	890
Heylmun, John W., assignor to E. J. Hall, Buffalo, N. Y. Feed-water heater	272,689	Feb. 20	1392	391	23	698
Heyne, Georg, Offenbach-on-the-Main, Germany. Screw-machine	289,655	Dec. 4	351	99, 100	25	949
Heynemann, Lionel H., San Francisco, Cal. Safety appliance for elevators	269,855	Jan. 2	43	14	23	11
Heysinger, Isaac W., Philadelphia, Pa. Lighting and heating attachment for gas-brackets	271,708	Feb. 6	144	40	23	465
Heysinger, Isaac W., Philadelphia, Pa. Machine for inserting and clinching staples	274,941	Apr. 3	73	20	23	1238
Heysinger, Isaac W., Philadelphia, Pa. Suspension-wrench for gas and other cocks	275,042	Apr. 3	211	57	23	1262
Heysinger, Isaac W., Philadelphia, Pa. Postage-stamp holder	284,737	Sept. 11	714	200	24	1032
Heysinger, Isaac W., Philadelphia, Pa. Method of and appliance for disposing of dead bodies	285,034	Sept. 18	1069	304	24	1105
Heysinger, Isaac W., Philadelphia, Pa. Combined bit-brace and washer-cutter	286,610	Oct. 16	1042	282	25	206
Heyward, Charles P. (See McCord, John, assignor.)						
Hiams, George F., Troy, N. Y. Spring-mattress	270,799	Jan. 16	1202	347	23	251
Hiatt, Edwin, New Castle, Ind. Post-driving machine	286,816	Oct. 16	1301	354	25	251
Hiatt, Edwin, New Castle, Ind. Apparatus for elevating hay and other substances	287,930	Nov. 6	176	50	25	538
Hibbard, Angus S., Milwaukee, Wis., assignor to Western Electric Company, Chicago, Ill. Circuit for telephone-exchanges	274,602	Mar. 27	1770	490	23	1161
Hibbard, Erastus, South Barre, N. Y. Machine for finishing staves	281,066	July 10	896	249	24	165
Hibbard, George E., assignor of one-half to N. C. Gridley, Evanston, Ill. Mechanical stoker	282,519	Aug. 7	51	15, 16	24	509
Hibbard, George E., assignor of one-half to N. C. Gridley, Evanston, Ill. Rotary engine	282,520	Aug. 7	53	16	24	509
Hibbard, Thomas, Boston, Mass. Laying underground pipes	289,000	Nov. 27	1515	419	25	796
Hibbs, George D., Newark, N. J. Weighing apparatus	273,528	Mar. 6	367	98	23	897
Hice, Henry, *et al.* (See Rote, Charles V., assignor.)						
Hickey, Philip, Boston, Mass. Match-plane	280,175	June 26	1912	537	23	2473
Hickman, Elijah, Red Bluff, Cal. Grain-header	286,436	Oct. 9	895	223, 224	25	160
Hickman, Francis, New York, N. Y. Hose-nozzle	270,064	Jan. 2	279	82	23	57
Hickman, Francis, New York, N. Y. Hose-coupling	270,065	Jan. 2	279	82	23	57
Hickman, Francis, New York, N. Y. Cock and faucet	270,066	Jan. 2	280	83	23	57
Hickok, Barton H., Eldon, Mo. Bed-spring	276,818	May 1	367	97	23	1690
Hickok, Samuel S., Rochester, N. H., assignor of one-half to Athol Machine Company, Athol, Mass. Fruit-gatherer	272,690	Feb. 20	1394	391	23	699
Hickok, Stephen O., assignor to himself and J. Herring, Allen, Mich. Spring-toothed sulky-harrow	270,067	Jan. 2	281	83	23	57
Hicks, Alonzo. (See Evans, Abner, Jr., assignor.)						
Hicks, Alonzo, West New Brighton, N. Y., assignor to E. W. Corey, Boston, Mass. Game apparatus	290,328	Dec. 18	1191	334	25	1112
Hicks, Charles R. (See Hoit, David, assignor.)						
Hicks, Edgar S., Brooklyn, N. Y. Mast and spar	273,529	Mar. 6	369	98	23	897
Hicks, George C., Chicago, Ill. Method of and means for retaining heat in steam-boilers	287,829	Nov. 6	48	14	25	516
Hicks, George C., Chicago, Ill. Tube-closer for steam-boilers	287,931	Nov. 6	177	50, 51	25	538
Hicks, Henry C., Minneapolis, Minn. Stock-car	279,162	June 12	698	190	23	2252
Hicks, Henry C., Minneapolis, Minn. Stock-car	281,067	July 10	897	249	24	166
Hicks, Henry C., Minneapolis, Minn. Stock-car	288,335	Nov. 13	683	188	25	634
Hicks, James J., Hatton Garden, county of Middlesex, England. Clinical thermometer	280,037	June 26	1765	495	23	2446

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hicks, John H. (See Porter, Thomas J., assignor.)						
Hicks, John H., Gadsden, Ala. Cotton planter and cultivator	275,651	Apr. 10	1029	278	23	1410
Hicks, John W., Winona, Miss. Machine for cutting circles	290,882	Dec. 25	1918	530	25	1246
Hicks, Joshua, Sandford, Ind. Rat-proof building	292,636	Aug. 7	196	57	24	534
Hicks, Napoleon B., San Bernardino, Cal. Fruit-pitter	281,507	July 17	1459	400	24	270
Hicks, Nehemiah. (See Metcalf and Hicks.)						
Hicks, Peter, Napa, Cal. Adjustable horseshoe	279,758	June 19	1414	395	23	2379
Hicks, William S., New York, N. Y., and H. Isley, Jersey City, N. J. Pencil-case	280,313	June 26	2088	587	23	2504
Hickson, Frederick A., Rochester, N. Y. Milk-can	280,820	July 10	601	168	24	113
Hiemenz, John W., Lancaster, Pa. Friction-lock for lever fan-blowers, &c.	277,487	May 15	1206	324	23	1846
Hien, Phillip, and A. H. Grimm, Rock Island, Ill. Cultivator	284,960	Sept. 11	981	276	24	1079
Hiester, Charles E., Harrisburg, Pa. Hammock	278,431	May 29	2389	652	23	2066
Hiester, Charles E., Harrisburg, Pa. Velocipede	285,130	Sept. 18	1200	336 337	24	1123
Hiester, Charles E., Harrisburg, Pa., assignor of one-third to C. S. Mixter, Boston, Mass. Tricycle	271,583	Jan. 30	2183	628	23	432
Higbe, James M., Manson, Iowa. Cut-off-valve gear	275,337	Apr. 3	595	159	23	1327
Higby, Charles W. (See Smith, Emmet L., assignor.)						
Higby, Charles W., Jackson, Mich. Corset	275,652	Apr. 10	1030	278	23	1410
Higby, Charles W., Jackson, Mich. Corset	275,653	Apr. 10	1031	278	23	1410
Higdon, John C., Kansas City, Mo. Automatic stove-damper	283,106	Aug. 14	758	213	24	642
Higgin, William H. (See Potter and Higgin.)						
Higgins, Albert J., Alfred, Me. Oil-can holder	282,986	Aug. 14	602	170	24	614
Higgins, Alfred, and F. Wilkinson, Manchester, county of Lancaster, England. Bleaching and dyeing fibrous materials	273,078	Feb. 27	1885	529	23	791
Higgins, Barlow, Elliottstown, Ill. Automatic damper	286,817	Oct. 16	1304	355	25	252
Higgins, Campbell P., Philadelphia, Pa. Tube-expander	275,766	Apr. 10	1177	323	23	1435
Higgins, Campbell P., Philadelphia, Pa. Gage-cock	280,176	June 26	1914	538	23	2473
Higgins, Campbell P., Philadelphia, Pa., assignor to Babcock & Wilcox Company, New York, N. Y. Tube-scraper	272,437	Feb. 20	1073	303	23	643
Higgins, Charles J., Farmingdale, Me. Lantern	287,932	Nov. 6	179	51	25	539
Higgins, Charles W. (See Houlehan, James, assignor.)						
Higgins, Jonathan R., Lima, Ohio. Chimney-flue stopper	292,726	Aug. 7	312	88	24	554
Higgins, Mary E., Cadillac, Mich. Underwaist for children	277,726	May 15	1484	402	23	1893
Higgins, Mary E., Cadillac, Mich. Underwaist	288,802	Nov. 20	1275	349	25	744
Higgins, Mary E., Cadillac, Mich. Underwaist	288,803	Nov. 20	1276	350	25	744
Higgins, Norman L., Elmira, N. Y. Wagon running-gear	292,637	Aug. 7	197	57	24	534
Higgins, Oliver, and W. S. and J. Grim, Napoleon, Ohio. Acoustic telephone	273,079	Feb. 27	1886	530	23	791
Higgins, Rozander S., Benton Harbor, Mich. Sulky-plow	285,749	Sept. 25	1952	552	24	1264
Higgins, Sylvester W., St. Louis, Mo. Fountain-pen	271,455	Jan. 30	2023	584	23	405
Higgins, Walter B., assignor of one-half to S. M. Baldwin, San Francisco, Cal. Roller-skate	280,821	July 10	603	168	24	113
Higgins, Walter S. (See Higgins and Grim.)						
Higgs, Joseph W., Sharon, Pa. Roll for rolling car-couplings	289,001	Nov. 27	1517	419 420	25	796
Higgs, Paget, and W. Courtenay, New York, N. Y. Insulator for the suspension of electrical wire conductors	269,933	Jan. 2	130	39	23	27
Highfield, William E., assignor of one-half to J. H. McVaugh, Philadelphia, Pa. Combined punching and countersinking machine	289,835	Dec. 11	581	162	25	994
Highfill, William M. (See Allmon, Wommack, and Highfill.)						
Higinbotham, John D., and G. F. Ball, Adrian, Mich. Weed-puller	287,677	Oct. 30	2415	651	25	469
Higley, Eben N., Great Falls, assignor of one-half to Trefethen, Saltmarsh & Willey, Dover, N. H. Glass for the manufacture of water, drain, and sewer pipes	288,056	Nov. 6	334	.....	25	564
Hilbers, Henry, Flushing, N. Y. Apparatus for drying wall-paper	277,033	May 8	656	171	23	1744
Hilbert, Charles, assignor to himself, J. J. Mahaney, and J. Stern, Sing Sing, N. Y. Inhaler	276,968	May 1	567	148	23	1723
Hildenbrand, George F., W. Klein, and C. Trumper, New York, N. Y. Locked bung	284,848	Sept. 11	848	239	24	1055
Hildenbrand, George F., assignor to C. L. Gross, New York, N. Y. Valve and spigot wrench for barrels	290,183	Dec. 11	994	281	25	1070
Hildreth, Joseph E. (See Allton, Hiram, assignor.)						
Hildreth, Robert H. J., Greenville, Ala. Bee-hive	270,666	Jan. 16	1040	298	23	219
Hildwein, Robert, Cleveland, Ohio. Screw-threading device	289,415	Dec. 4	50	14, 15	25	895
Hilgenstock, Gustav, Hoerde, Germany. Tuyere for blast-furnaces	283,107	Aug. 14	758	213	24	642
Hill, Alexander, Bright Seat, Md. Wire-stretcher	286,302	Oct. 9	663	177	25	130
Hill, Andrew L., Decatur, Ill. Hame-tug	279,759	June 19	1414	395	23	2379
Hill, Andrew L., assignor to J. L. Knieper, Decatur, and J. Barrick, Blue Mound, Ill. Egg-carrier	272,548	Feb. 20	1210	338	23	667
Hill, Charles F., Phelps, N. Y. Saw-filing machine	283,393	Aug. 21	1119	316	24	714
Hill, Daniel, New Vienna, Ohio. Field-drag	289,656	Dec. 4	354	100	25	949
Hill, De Witt C., Willimantic, Conn. Moving grate for boiler-furnaces	276,691	May 1	202	52	23	1659
Hill, Edward J., and J. L. Clark, Westminster, England. Boat-detaching apparatus	272,253	Feb. 13	827	231	23	596
Hill, Edward K., Worcester, Mass. Bicycle-spring	275,910	Apr. 17	1356	374	23	1474
Hill, Edwin H., Worcester, Mass. Method of and mechanism for straightening metal bands	290,231	Dec. 18	1064	298	25	1091
Hill, Francis H. (See Goff, Mortimer, assignor.)						
Hill, Frank A., Benicia, Cal. Plow and cultivator frame	283,394	Aug. 21	1120	317	24	715
Hill, Frederick D., assignor of two-thirds to G. W. Nelson and J. S. Freer, New York, N. Y. Burglar-alarm	284,012	Aug. 28	1892	530	24	865
Hill, George, New York, N. Y. Drawing-roller for spinning and drawing frames	270,432	Jan. 9	740	217	23	153
Hill, George E. (See Smith, Hugh, assignor.)						
Hill, George W., Stark's Point, Wash. Ter. File-handle	275,911	Apr. 17	1358	374	23	1474
Hill, Henry H., *et al.* (See Kelley, John, assignor.)						
Hill, James F., Dalton, Ga. Cultivator and seed-planter	281,878	July 24	1946	531 532	24	358
Hill, James F., assignor of two-thirds to J. F. Dunn and M. Folk, Fleetwood, Pa. Washing-machine	281,996	July 24	2084	572	24	382
Hill, John, Minneapolis, Minn. Insole for boots or shoes	275,567	Apr. 10	1178	323	23	1435
Hill, John, Independence, Kans. Bagasse-furnace	276,400	Apr. 24	1970	545	23	1587
Hill, John, Columbus, Ga. Automatic fire-extinguisher	283,242	Aug. 14	921	256 257	24	671
Hill, John C., and J. Doody, Brooklyn, N. Y. Hat-stiffening machine	289,911	Dec. 11	677	188	25	1011
Hill, John L., Brooklyn, N. Y. Railway-switch	278,548	May 29	2527	690	23	2090
Hill, John T., Meadville, Pa. Lamp	270,312	Jan. 9	573	168	23	122
Hill, John W., Cairo, Ill. Combined cradle and seesaw	273,530	Mar. 6	371	98	23	898
Hill, Joseph, Williamsport, Pa. Lever-clutch	278,137	May 22	1985	546	23	1987
Hill, Joseph W., Jersey Shore, Pa. Harness-tug attachment	275,043	Apr. 3	212	57	23	1262

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hill, L., Jr., *et al.* (See McGregor, Rob Roy, assignor.)						
Hill, Louis C., Myrtle Creek, Oreg. Fruit-stoner	272,549	Feb. 20	1210	339	23	667
Hill, Samuel C. (See Webb, Samuel D., assignor.) (Reissue.)						
Hill, Samuel C., S. D. Webb, and R. M. Odell, Washington, D. C. Car-ventilator	282,889	Aug. 7	496	139	24	588
Hill, Samuel L., Brooklyn, N. Y. Steam-generator	284,904	Sept. 4	61	17	24	915
Hill, Thomas, *et al.* (See Little, James R., assignor.)						
Hill, Thomas, Jersey City, N. J. Dumping-cart	283,604	Aug. 21	1366	382	24	759
Hill, Thomas, assignor of two-thirds to P. B. Williams and C. Smith, Quincy, Ill. Power-elevator	279,243	June 12	783	216	23	2267
Hill, Thomas H., Philadelphia, Pa. Automatic paper-bag filler	277,133	May 8	793	208	23	1768
Hill, Warren. (See Stiles, George A., assignor.)						
Hill, Wilber F., North Manchester, Conn. Paper-cutting machine	272,438	Feb. 20	1075	303	23	643
Hill, William E., *et al.* (See Randall, Francis W., assignor.)						
Hill, William E., Kalamazoo, Mich. Sawing-machine	276,401	Apr. 24	1970	545, 546	23	1587
Hill, William E., Kalamazoo, Mich. Steam-engine	277,034	May 8	657	171	23	1744
Hill, William H. (See Crocker, Benjamin S., assignor.)						
Hill, William H., Chicago, Ill. Cover for harvesters	285,410	Sept. 25	1534	432, 433	24	1189
Hill, William S., Cutler, Ill. Door-bolt	284,961	Sept. 11	982	276	24	1079
Hiller, John M., Earlville, Ill. Road-cart	288,336	Nov. 13	685	188	25	634
Hilliard, Charles H., and W. C. Green, Chicago, Ill. Pencil-holder	273,277	Mar. 6	39	12	23	841
Hilliard, John W., Hawley, Minn. Automatic feed-regulator for grinding-mills	286,818	Oct. 16	1305	355	25	252
Hillman, Jotham R., Hopewell, N. Y. Apparatus for bleaching fruit, &c.	275,044	Apr. 3	213	58	23	1262
Hillman, William, Haynesville, Me. Carriage or wagon jack	288,057	Nov. 6	334	94	25	564
Hills, Frederick C., Newton, Mass. Refrigerating-car	279,163	June 12	700	190	23	2252
Hillsley, John T. (See Lilley and Hillsley.)						
Hilton, William, Barton, Ohio. Coal-mining machine	287,436	Oct. 30	2095	569, 570	25	407
Hilton, William D. (See Folsom, Andrew, assignor.)						
Himelberger, Jacob, Holt, Mich. Flooring-jack	285,894	Oct. 2	148	42	25	29
Himmer, Vitalis, assignor to Time Telegraph Company, New York, N. Y. Circuit-controller for electric clocks	274,323	Mar. 20	1386	381	23	1067
Himmer, Vitalis, assignor to Time Telegraph Company, New York, N. Y. Circuit-controller for electric clocks	274,324	Mar. 20	1388	381	23	1068
Himmer, Vitalis, assignor to Time Telegraph Company, New York, N. Y. Electric clock	274,325	Mar. 20	1391	381	23	1068
Hinchcliffe, Alfred, Lawrence, Mass. Welt-cutter	281,365	July 17	1283	356	24	239
Hinchliffe, William, Nashville, Tenn. Machine for rolling cotton-batting	276,402	Apr. 24	1972	546	23	1588
Hinckley, Howard V. (See Beard and Hinckley.)						
Hinden, Mathias J., assignor to himself, M. Flanigan, and A. Parent, Detroit, Mich. Hydrogen-lamp	275,045	Apr. 3	214	58	23	1263
Hindes, Frank. (See Dods and Hindes.)						
Hindley, Robert C., Racine, Wis. Skate	286,199	Oct. 9	513	141, 142	25	105
Hindley, Robert C., Racine, Wis. Skate	287,933	Nov. 6	188	51	25	539
Hinds, Charles H. (See Vance and Hinds.)						
Hinds, Charles H., New York, N. Y. Joint for electric-light brackets	282,317	July 31	2507	689	24	457
Hinds, Charles H., New York, N. Y. Joint for electric lights	282,318	July 31	2508	689	24	457
Hinds, Charles H., New York, N. Y. Electric gas-burner	282,890	Aug. 7	497	140	24	588
Hinds, Joseph E., Brooklyn, N. Y. Printing-machine. (Reissue)	10,330	May 22	2220	608, 609	23	2027
Hinds, Melvin B. (See Cutter, William P., assignor.)						
Hinds, William H. H. (See Fogg, Leonard C., assignor.)						
Hine, Ethel C., *et al.* (See Eldridge, Stuart, assignor.)						
Hine, John H. (See Armstrong and Hine.)						
Hine, L. G., *et al.* (See Rogers, James H., assignor.)						
Hines, Dauphin S., *et al.* (See Leavitt, Erasmus D., Jr., assignor.)						
Hines, Dauphin S., Brooklyn, W. A. Perry, Bay Ridge, and C. C. Worthington, Irvington, N. Y. Double-acting pump	289,535	Dec. 4	205	57, 58	25	922
Hinkley, George M., Milwaukee, Wis. Device for oscillating the guides of reciprocating saw mills	273,361	Mar. 6	159	45	23	861
Hinks, Joseph, Birmingham, county of Warwick, England. Lamp	274,326	Mar. 20	1393	381, 382	23	1069
Hinks, Joseph, Birmingham, county of Warwick, England. Lamp	274,327	Mar. 20	1395	382	23	1069
Hinkston, Forest J. (See Krill, F. Adon, assignor.)						
Hinrichs, Charles F. A. (See Angell, Albert, assignor.)						
Hinsdale, Charles C., Cleveland, Ohio. Telegraph-insulator	287,830	Nov. 6	50	15	25	516
Hinton, Joseph R. H., assignor to Continental Cash Car Company, Baltimore, Md. Stop or brake mechanism and wire-support for cash-carrier systems	286,133	Oct. 2	432	118	25	80
Hinton, Joseph R. H., assignor to Continental Cash Car Company, Baltimore, Md. Parcel-carrier	287,129	Oct. 23	1707	467	25	330
Hipkiss, Samuel, Stoneham, Mass. Roller-skate	289,099	Nov. 27	1640	454	25	817
Hipp, John J., Timberville, Ohio. Hame-tug	290,427	Dec. 18	1330	368	25	1136
Hipperling, William, assignor to Ginna & Co., New York, N. Y. Machine for use in the manufacture of tin cans	281,508	July 17	1461	401	24	270
Hipwell, Thomas, Astoria, assignor to Manhattan Brass Company, New York, N. Y. Lamp-burner	283,108	Aug. 14	759	214	24	642
Hirayama, Jinta, Otamachi, Yokohama, Japan. Daylight fire-works	282,891	Aug. 7	498	140	24	588
Hires, Charles E. (See Tubbs and Swartz, assignors.)						
Hirley, James V., Cincinnati, Ohio. Support for electric wires and lamps	286,437	Oct. 9	926	224	25	161
Hirsch, Charles, assignor of one-half to J. J. Lanz, Buffalo, N. Y. Stop-cock	283,887	Aug. 28	1713	483	24	834
Hirschy, Solomon, Berne, Ind. Sawing-machine	290,051	Dec. 11	843	239	25	1042
Hirsh, Henry, New York, N. Y. Picture-holding cap for watch-cases	276,403	Apr. 24	1973	546	23	1588
Hirst, Godfrey, Whitby, county of York, England. Manufacturing inlaid articles	285,619	Sept. 25	1783	507	24	1235
Hise, George J., assignor to J. H. Fenton, Chicago, Ill. Rubber bumper for horses' heads	275,654	Apr. 10	1032	279	23	1411
Hise, George J., and J. H. Fenton, Chicago, Ill., assignors to said Fenton. Quarter-boot for horses	275,655	Apr. 10	1033	279	23	1411
Hiser, Daniel B., Wooster, Ohio. Burial-casket	288,804	Nov. 20	1277	350	25	745
Hitchcock, Albert L., Pawtucket, R. I. Coal elevator and bucket	287,831	Nov. 6	51	15	25	516
Hitchcock, Alonzo, New York, N. Y. Draftsman's T-square	274,194	Mar. 20	1216	335	23	1059
Hitchcock, Arthur C., assignor of one-half to F. E. Baker, Decorah, Iowa. Fire-escape	276,969	May 1	568	148	23	1723
Hitchcock, Caleb B. (See Cloves, James H., assignor.)						
Hitchcock, Charles A. (See Hershey and Hitchcock.)						
Hitchcock, Charles A. (See Lord, Andrew H., assignor.)						
Hitchcock, Charles B., Indianapolis, Ind. Cigar-lighter cutter	289,934	Jan. 2	131	39	23	27

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hitchcock, Charles B., Indianapolis, Ind. Ore-concentrating apparatus	279,164	June 12	701	191	23	2252
Hitchcock, Charles B., Indianapolis, Ind. Valve	284,635	Sept. 11	581	163	24	1008
Hitchcock, Charles B., Indianapolis, Ind. Toe-weight	288,636	Nov. 20	1068	293	25	708
Hitchcock, Frank I., Bridgeport, Conn. Weighing-scale	285,815	Oct. 2	41	13	25	9
Hitchcock, Henry, Genesee, assignor of one-half to A. Carpenter, Flint, Mich. Fire-escape	282,892	Aug. 7	499	140	24	588
Hitchcock, Jonathan. (See White and Hitchcock.)						
Hitchcock, Luke R., and J. W. Lufkin, Four Mile, N. Y. Sucker-rod extractor for oil and other wells	280,314	June 26	2089	588	23	2504
Hitchcock, William F. (See Rock, Frederick, assignor.)						
Hiter, Chesterfield J. (See Talbott and Hiter.)						
Hitt, Adrian, Rushville, assignor to himself and T. McManus, Sexton, Ind. Road-cart	288,805	Nov. 20	1278	350	25	745
Hitt, Richard T. (See Wasson and Hitt.)						
Hittel, Peter, Tonawanda, N. Y. Tool-holder for cutter-heads	270,313	Jan. 9	573	168, 169	23	122
Hittinger, Christ, Dayton, Ohio. Car-stove extinguisher	289,657	Dec. 4	355	100	25	950
Hix, Nelvil W. H., *et al.* (See Pendleton, John H., assignor.)						
Hixon, Edgar L., *et al.* (See Becker, Franck, assignor.)						
Hixon, Edgar L., *et al.* (See White, Jarvis N. B., assignor.)						
Hoadley, John C. (See McKay and Hoadley.)						
Hoadley, John C., Boston, Mass., assignor to G. McKay, Newport, R. I. Shoe-sewing machine	273,531	Mar. 6	372	99	23	898
Hoadley, Robert. (See Hull and Hoadley.)						
Hoag, Andrew J. (See Shepard, Hoag, and Thomson.)						
Hoag, Andrew J., assignor to Nichols, Shepard & Company, Battle Creek, Mich. Traction-wheel	273,532	Mar. 6	373	99	23	898
Hoag, Sidney W., Sr., assignor of three-fourths to H. B. Piper, New York, N. Y. Valve	272,879	Feb. 27	1662	464	23	753
Hoag, Sidney W., Sr., assignor of one-half to H. B. Piper, New York, N. Y. Elevator	279,648	June 19	1291	359	23	2358
Hoagland, James W., *et al.* (See Corbin, Elijah H., assignor.)						
Hoagland, John. (See Pearce and Hoagland.)						
Hoagland, John, assignor to Pearce & Hoagland, Providence, R. I. Bar for watch-chains	271,069	Jan. 23	1536	443	23	312
Hoagland, John, assignor to Pearce & Hoagland, Providence, R. I. Ornamental breastpin	270,564	June 19	1195	331	23	2341
Hoague, John H., Chicopee, Mass. Hand-drill	281,068	July 10	898	250	24	166
Hoar, William C., Spencer, Mass. Boot or shoe sole stamp	277,727	May 15	1485	402	23	1893
Hobbs, Alfred C., Bridgeport, Conn. Machine for heading cartridge-shells	273,734	Mar. 13	639	170, 171	23	952
Hobbs, Charles L., Wheeling, W. Va. Air-pipe coupling	278,961	June 5	427	117	23	2196
Hobbs, Clarence W., Deering, Me. Box	273,278	Mar. 6	40	12	23	841
Hobbs, Elijah M., Santa Rosa, Cal. Car-coupling	287,934	Nov. 6	182	52	25	539
Hobbs, Horatio. (See Gordon and Hobbs.)						
Hobbs, James W., assignor of one-half to B. J. Curry, Huntsville, Ala. Cotton-press	273,080	Feb. 27	1887	530	23	792
Hobbs, John, Boston, Mass. Apparatus for manufacturing artificial butter	271,239	Jan. 30	1741	504	23	355
Hobbs, John, Boston, Mass. Manufacturing artificial butter	271,240	Jan. 30	1742	504	23	355
Hobbs, John, Boston, Mass. Apparatus for treating artificial butter, &c	271,241	Jan. 30	1743	504	23	355
Hobbs, John, Boston, Mass. Apparatus for treating artificial butter, &c	271,242	Jan. 30	1744	505	23	356
Hobbs, John, Boston, Mass. Apparatus for manufacturing artificial butter	271,243	Jan. 30	1745	505	23	356
Hobbs, John, Boston, Mass. Apparatus for treating artificial butter	271,244	Jan. 30	1746	505	23	356
Hobbs, John, Boston, Mass. Refining fats	280,822	July 10	604	.....	24	113
Hobbs, John, Boston, Mass. Deodorized fat or oxyline	269,100	Nov. 27	1042	.....	25	817
Hobbs, Joseph D., Mount Pleasant, Iowa. Ditching-plow	278,549	May 29	2531	690	23	2091
Hobbs, Josiah. (See Tucker, William, assignor.)						
Hobbs, Willis F. (See Wilmot, Samuel R., assignor.)						
Hoblit, Laban, Atlanta, Ill. Horse-power hay-derrick	277,728	May 15	1485	402	23	1894
Hobson, James, assignor to S. S. Hall, Bury, near Manchester, England. Pile-wire motion for looms	281,069	July 10	899	250	24	166
Hobson, John B., San Francisco, Cal. Process of and apparatus for obtaining boracic acid from native borate of lime	289,836	Dec. 11	583	162	25	995
Hobson, Joseph W., assignor to Carr & Hobson, (limited,) New York, N. Y. Lawn-mower	275,338	Apr. 3	596	160	23	1327
Hochhausen, William, New York, N. Y. Electric-arc lamp	271,456	Jan. 30	2024	584, 585	23	406
Hochhausen, William, New York, N. Y. Automatic cut-out for electric lamps	271,457	Jan. 30	2028	585	23	406
Hochhausen, William, New York, N. Y. Electric-arc lamp	271,458	Jan. 30	2030	585	23	407
Hockensmith, Franklin C., Irwin, Pa. Axle-lubricator	273,990	Mar. 13	954	263	23	1005
Hodgdon, William H. (See Westgate, Joseph D., assignor.)						
Hodge, Chester A. (See Smith, Wilson R., assignor.)						
Hodge, Chester A., Beloit, Wis. Device for converting motion	282,727	Aug. 7	313	89	24	554
Hodge, William, Uxbridge, Ontario, Canada. Carriage-top	270,220	Jan. 9	470	138	23	102
Hodge, William, Uxbridge, Ontario, Canada. Carriage-top	274,496	Mar. 27	1636	455	23	1138
Hodges, Charles C., *et al.* (See McCoy, Elijah, assignor.)						
Hodges, Charles C., assignor to Detroit Lubricator Company, Detroit, Mich. Lubricator	275,768	Apr. 10	1179	323	23	1435
Hodges, Henry C., *et al.* (See McCoy, Elijah, assignor.)						
Hodges, Horace F., Chelsea, Mass. Speed-regulator	271,245	Jan. 30	1747	505	23	356
Hodges, Horace F., Chelsea, Mass. Rotary motor	271,459	Jan. 30	2034	586	23	407
Hodges, Horace F., Chelsea, assignor to C. F. Payne, Groveland, and G. H. Spencer, Fitchburg, Mass. Oil-cup	286,438	Oct. 9	828	224	25	161
Hodges, Horace F., Chelsea, assignor to C. F. Payne, Groveland, and G. H. Spencer, Fitchburg, Mass. Lubricator	290,428	Dec. 18	1330	369	25	1136
Hodges, Horace F., Chelsea, assignor to C. F. Payne, Groveland, and G. H. Spencer, Fitchburg, Mass. Pressure-regulating valve	290,429	Dec. 18	1331	369	25	1136
Hodges, John, Westfield, N. J. Safety appliance for elevators	287,287	Oct. 23	1908	522	25	365
Hodges, John, Westfield, N. J. Safety appliance for elevators	288,806	Nov. 20	1279	350, 351	25	745
Hodges, Pliny F., Chicago, Ill. Knotting mechanism for grain-binders	286,819	Oct. 16	1306	355, 356	25	252
Hodges, Pliny F., Chicago, Ill. Knotting mechanism for grain-binders	286,820	Oct. 16	1308	356, 357	25	252
Hodges, Robert, Philadelphia, Pa. Try-square	288,807	Nov. 20	1281	351	25	745
Hodgkins, Truman A. (See Brigham, Jonathan W., assignor.)						
Hodgson, Alfred, London, assignor to I. Chorlton, Jr., Manchester, England. Folding bedstead	283,485	Aug. 21	1236	347	24	735
Hodgson, Isaac, Indianapolis, Ind. Pneumatic alarm-lock for jails	275,656	Apr. 10	1034	279, 280	23	1411
Hodgson, John G. (See Norton and Hodgson.)						
Hodkinson, James, and F. P. Miller, Chambersburg, Pa. Brick-machine	288,337	Nov. 13	685	189	25	635
Hodson, Thomas T., Lansing, Mich. Boat-hull	290,232	Dec. 18	1066	298	25	1091

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hoe & Co., R. (See Crowell, Luther C., assignor.)						
Hoe & Co., R. (See Crowell, Luther C., assignor.) (Reissue.)						
Hoe & Co., R. (See Vienot, Jules P., assignor.)						
Hoe, Stephen S., Tarrytown, N. Y. Electrotype-plate	286,821	Oct. 16	1311	357	25	253
Hoedemaker, John A. (See O'Harra, George W., assignor.)						
Hoeffer, George F., Chicago, Ill. Rail-joint fastener	273,735	Mar. 13	640	171	23	952
Hoeffler, George F., San Francisco, Cal. Fruit-jar	282,193	July 31	2361	650	24	431
Hoeflich, Jacob N., Philadelphia, Pa. Life-preserver	278,432	May 29	2391	652	23	2066
Hoehn, Charles W., Bloomington, Ill. Soldering-lamp	276,404	Apr. 24	1974	546	23	1588
Hoeland, Frederick A. (See Isley, William H., assignor.)						
Hoelle, Jacob. (See Eliel, Albert L., assignor.)						
Hoen, August, Baltimore, Md. Hat-lining	277,729	May 15	1486	402	23	1894
Hoen, August, Baltimore, Md. Lithographic process	277,730	May 15	1487	403	23	1894
Hoey, John J., assignor to Stedman & Fuller, Lawrence, Mass. Machine for setting card-teeth	271,460	Jan. 30	2038	586 587	23	406
Hoeveler, William A., Pittsburg, Pa. Glue-stock washer	276,040	Apr. 17	1511	416	23	1501
Hoeveler, William A., Pittsburg, Pa. Apparatus for drying glue, &c	276,405	Apr. 24	1975	547	23	1588
Hoeveler, William A., Pittsburg, Pa. Vacuum-pan	277,280	May 8	955	257	23	1797
Hoff, Augustus and H., Brooklyn, N. Y. Leather case	274,603	Mar. 27	1771	490 491	23	1161
Hoff, Charles, assignor of one-half to P. Renner, Cincinnati, Ohio. Coal-hod	279,871	June 19	1551	434	23	2403
Hoff, Henry. (See Hoff, Augustus and H.)						
Hoffman, Antony A., New York, N. Y. Toy savings-bank	272,049	Feb. 13	577	156	23	552
Hoffman, Austin D. (See Hofmann and Hoffman.)						
Hoffman, Austin D., assignor to National Feather Duster Company, Chicago, Ill. Feather-splitting and grinding machine	279,386	June 12	979	271 272	23	2296
Hoffman, Edward J., assignor of one-half to D. P. and P. J. Magner, Sioux City, Iowa. Device for preventing incrustation	270,569	Jan. 9	912	263	23	187
Hoffman, Herman F., Torrington, Conn. Handsaw	280,928	July 10	734	204	24	135
Hoffman, Horace J., Neillsville, Wis. File for papers	274,604	Mar. 27	1772	491	23	1162
Hoffman, Jacob R., Fort Wayne, Ind. Emery-wheel for sharpening saws	271,634	Feb. 6	63	18	23	451
Hoffman, John F., Cincinnati, Ohio. Composition roof	285,131	Sept. 18	1201	337	24	1124
Hoffman, Joseph, assignor to J. Reckendorfer, New York, N. Y. Pencil	270,567	Jan. 9	910	262	23	187
Hoffman, Joseph, assignor to J. Reckendorfer, New York, N. Y. Combination-instrument	273,232	Feb. 27	2087	586	23	827
Hoffman, Joseph, assignor to H. Berolzheimer, New York, N. Y. Automatic holder for knives and pencils	290,683	Dec. 25	1664	459	25	1200
Hoffman, Joseph, assignor to H. Berolzheimer, New York, N. Y. Lead and crayon holder	290,684	Dec. 25	1666	459	25	1200
Hoffman, Lazarus, Columbus, Ohio. Glove or mitten	280,823	July 10	605	169	24	113
Hoffman, Leonhart, Tekamah, Nebr. Sickle-eye for mowing and reaping machines	274,942	Apr. 3	76	20	23	1238
Hoffman, Ross J., Binghamton, N. Y. Lubricator	286,005	Oct. 2	278	78	25	52
Hoffman, Ross J., Binghamton, N. Y. Lubricator	288,434	Nov. 13	817	221	25	658
Hoffman, William M., assignor to Schoellkopf & Co., Buffalo, N. Y. Putting-out machine	288,941	Nov. 20	1440	397	25	775
Hoffmann, Charles, New York, N. Y. Lamp	286,006	Oct. 2	278	78	25	52
Hoffmann, Charles, Milwaukee, Wis. Machine for striping pails, tubs, &c	290,329	Dec. 18	1191	334	25	1112
Hoffmann, George A., Jr., Monongahela City, Pa. Composition for fire-brick	276,041	Apr. 17	1512	.....	23	1501
Hoffmann, William R., Oregon, Mo. Music-holder	289,658	Dec. 4	356	100	25	950
Hofmann, Ernst, Barnhart's Mills, Pa. Carpet-stretcher	276,406	Apr. 24	1976	547	23	1588
Hofmann, George, Jr., and A. D. Hoffman, Chicago, Ill. Fire-escape	276,585	May 1	55	16	23	1637
Hofmann, Leonhard, Cincinnati, Ohio. Saw-guard	284,849	Sept. 11	850	239	24	1055
Hofstatter, Theodore, Jr., New York, N. Y. Boring-machine	284,850	Sept. 11	850	239	24	1055
Hogan, George, New Brighton, N. Y. Indicator for schools	276,819	May 1	367	97	23	1690
Hogan, Matthew, Hartford, Conn. Water-cock	275,487	Apr. 10	818	221	23	1374
Hogan, Peter, Albany, N. Y. Process of and apparatus for manufacturing fertilizers	281,693	July 24	1705	464	24	315
Hogeboom, Levi S., and F. B. Smith, Three Rivers, Mich. Bran-duster	279,387	June 12	981	272 273	23	2296
Hoggson, Samuel J., and G. C. Pettis, New Haven, Conn. Covering key-boards of musical instruments	274,328	Mar. 20	1397	383	23	1069
Hohenstein, Karl A., Brooklyn, N. Y. Fire-proof compound	289,262	Nov. 27	1829	.....	25	853
Hohl, Martin, Lebanon, Ind. Refrigerator and beer cooler	281,879	July 24	1947	532	24	358
Hohorst, Frederick, Brooklyn, N. Y. Awning	289,772	Dec. 4	494	137	25	972
Hoit, David. (See Scanlan, John, assignor.)						
Hoit, David, West Albany, assignor of one-half to C. R. Hicks, Troy, N. Y. Coal-car	272,550	Feb. 20	1211	339	23	667
Hoitt, Charles W. (See Clement, Charles E., assignor.)						
Hoke, John I., South Bend, Ind. Sulky-plow	286,540	Oct. 9	948	255	25	183
Hoke, Walter S., assignor of one-half to C. S. Westcott, Philadelphia, Pa. Umbrella	276,407	Apr. 24	1977	547	23	1588
Hoke, Walter S., assignor of one-half to C. S. Westcott, Philadelphia, Pa. Catch for umbrella-handles	276,536	Apr. 24	2138	594	23	1616
Holben, Wayne, Allentown, Pa. Washing-machine	289,416	Dec. 4	52	15	25	896
Holbon, Robert, assignor of one-half to C. B. Greely, Alpena, Mich. Wiper for the commutators of dynamo-electric machines	287,678	Oct. 30	2417	652	25	470
Holbrook, Byron, assignor of two-thirds to C. W. and N. R. Allen, Jr., Kenosha, Wis. Preparing tan-bark	284,738	Sept. 11	716	200	24	1032
Holbrook, Charles A., New York, N. Y., assignor to E. Miller & Co., Meriden, Conn. Convertible lamp and gas fixture	286,007	Oct. 2	280	79	25	53
Holbrook, James A., and G. Montgelas, Grenoble, France. Glove-blank	283,605	Aug. 21	1367	382	24	760
Holbrook, Walter A., Milwaukee, Wis. Fire-escape	289,101	Nov. 27	1642	455	25	817
Holbrook, Zephaniah S., Chicago, Ill. Carrying system	282,310	July 31	2509	689	24	457
Holbrook, Zephaniah S., Chicago, Ill. Automatic cash-carrier	282,320	July 31	2511	690	24	458
Holbrook, Zephaniah S., Chicago, Ill. Automatic cash-carrier	282,321	July 31	2516	690	24	459
Holbrook, Zephaniah S., Chicago, Ill. Carrying system	282,893	Aug. 7	500	140 144	24	589
Holcomb, Abel P., and A. Heine, Silver Creek, N. Y. Centrifugal flour-bolt	271,846	Feb. 6	315	87	23	496
Holcomb, Abel P., and A. Heine, Silver Creek, N. Y. Centrifugal flour-bolt	280,622	July 3	342	95	24	61
Holcomb, Abel P., and A. Heine, Silver Creek, N. Y. Centrifugal flour-bolt	285,620	Sept. 25	1784	507	24	1236
Holcombe, Alfred B., Lambertville, N. J. Wood-splitting machine	289,856	Jan. 2	44	14	23	11
Holcombe, Clifford A. (See Holcombe, William H. and C. A.)						
Holcombe, William H. and C. A., Beloit, Wis. Windmill	271,635	Feb. 6	64	18	23	451
Holcombe, William H. and C. A., Beloit, Wis. Pump	281,695	July 24	1707	464	24	315
Holcombe, William H. and C. A., Beloit, Wis. Geared windmill	283,109	Aug. 14	760	214	24	642
Holden, Ezra, Chicago, Ill. Toy	276,586	May 1	55	16	23	1637
Holden, George R. (See Warren, Edward K., assignor.)						
Holden, Henry H., assignor to W. Cooper and R. Stonehouse, Strathroy, Ontario, Canada. Power-motor	278,962	June 5	428	117	23	2196
Holden, Hiram, Jr., Spencer, Mass. Tension device for sewing-machines	277,281	May 8	956	257	23	1797

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Holden, James, Providence, R. I. Barrel-truck	283,888	Aug. 28	1714	483	24	834
Holden, Joel M. (See Burton and Holden.)						
Holden, Magdalene, Philadelphia, Pa. Flower-pot	289,102	Nov. 27	1644	455	25	817
Holden Manufacturing Company. (See Kipp, August E., assignor.)						
Holden, Orel J., Tarrytown, and L. Griswold, assignors, by mesne assignments, to New World Sewing Machine Company, New York, N. Y. Sewing-machine	272,050	Feb. 13	579	156, 157	23	552
Holden, Orel J., Tarrytown, and L. Griswold, assignors, by mesne assignments, to said Holden and A. H. Jocelyn, New York, N. Y. Tension device for sewing-machines	272,051	Feb. 13	582	157	23	553
Holden, Warren, assignor to Fowler Brothers, Providence, R. I. Bracelet	281,628	July 17	1612	441	24	294
Holden, William G., assignor of one-half to E. H. Wheeler, Corpus Christi, Tex. Device for attaching pumps to oil and other cans	279,165	June 12	702	191	23	2253
Holder, Mary G., New York, N. Y. Ointment	272,138	Feb. 13	604	.....	23	572
Holeman, Adam, Bronson, Kans. Gate-latch	283,243	Aug. 14	924	257	24	671
Holiday, Henry M., Olivet, Mich. Thill-coupling	286,439	Oct. 9	829	225	25	161
Holland, Charles. (See Carley, Benjamin, assignor.)						
Holland, Charles, New York, N. Y. Hydrocarbon-furnace	275,382	Apr. 10	681	180	23	1351
Holland, Charles, New York, N. Y. Hydrocarbon-furnace	275,488	Apr. 10	819	222	23	1374
Holland, Charles, New York, N. Y. Hydrocarbon furnace	275,489	Apr. 10	820	222	23	1374
Holland, Charles, New York, N. Y. Process of and furnace for burning hydrocarbon fluids	275,490	Apr. 10	822	223	23	1375
Holland, Frank, Manchester, Conn. Fountain-pen	276,692	May 1	203	52	23	1659
Holland, Harold, Lynn, Mass. Wheel-runner	272,691	Feb. 20	1395	391	23	699
Holland, Harold, Lynn, Mass. Horseshoe	278,015	May 22	1838	501	23	1961
Holland, Isaac, St. Peters, Mo. Car-coupling	289,002	Nov. 27	1517	420	25	796
Holland, John, Limerick, Maine. Bed-blanket	271,461	Jan. 30	2039	587	23	408
Holland, John, Cincinnati, Ohio. Stylographic fountain-pen	275,912	Apr. 17	1359	374	23	1475
Holland, John, Cincinnati, Ohio. Pencil-case	279,398	June 12	983	273	23	2299
Holland, John, assignor to American Iridium Company, Cincinnati, Ohio. Alloying iridium	285,895	Oct. 2	149	.....	25	29
Holland, John, assignor to American Iridium Company, Cincinnati, Ohio. Draw-plate	285,896	Oct. 2	150	42	25	29
Holland, Joseph J., Bryan, Tex. Combined corn and cotton-seed planter	274,195	Mar. 20	1218	335	23	1059
Holland, Timothy. (See Loftus, John, assignor.)						
Holland, Timothy, Troy, N. Y. Steam-boiler	278,963	June 5	429	117	23	2197
Holland, Timothy, Troy, N. Y. Valve	282,894	Aug. 7	503	141	24	589
Holland, Timothy, Troy, N. Y. Lubricator	290,685	Dec. 25	1668	460	25	1201
Holland, Virgil C. (See Sarlls and Holland.)						
Holland, Wiley S., Gatewood, Mo. Velocipede	285,035	Sept. 18	1091	304	24	1105
Hollander, Alva L., Somerville, Mass. Box for matches, &c	270,667	Jan. 16	1042	298	23	220
Hollar, William H., York, Pa. Burglar-proof safe	290,052	Dec. 11	844	240	25	1042
Hollenback, Wesley. (See Gray and Hollenback.)						
Hollenbeck, Westley, *et al.* (See Gray, Josiah, assignor.)						
Hollett, Ira W., Chicago Ill. Paper pail or box	279,244	June 12	784	216	23	2267
Holley, George G., assignor to Snell Manufacturing Company, Fiskdale, Mass. Wringer-plate for twisting augurs	276,043	Apr. 17	1514	416, 417	23	1501
Holley, Ralph F., assignor to W. Richmond, Lockport, N. Y. Wick-trimming shears	271,982	Feb. 6	489	132	23	525
Holliday, Thomas, Huddersfield, county of York, England. Production of azo colors on cotton fabrics	271,636	Feb. 6	66	.....	23	451
Hollingshead, William B., New York, N. Y. Compound electric conductor	284,423	Sept. 4	324	90	24	958
Hollis, John W., Cincinnati, Ohio. Car-coupling	269,857	Jan. 2	45	14	23	11
Hollister, Albert G., Hartford, Conn. Pump	287,935	Nov. 6	183	52, 53	25	539
Hollister, James, St. Paul, Minn. Neck-yoke	269,858	Jan. 2	46	14	23	12
Hollister, James D., Savannah, Ga. Tail-light bracket for railway-trains	288,058	Nov. 6	335	94	25	564
Hollister, Justin, Scely, Kans. Fence	283,606	Aug. 21	1368	382	24	760
Holloway, Charles T., Baltimore, Md. Velocipede	274,196	Mar. 20	1219	335	23	1059
Holloway, Leroy F., and N. Griswold, Janesville, Wis. Cooking-stove	283,244	Aug. 14	924	257, 258	24	671
Holloway, Nathan. (See Link, Frederic W., assignor.)						
Holloway, Thomas G., Boston, Ga., assignor of one-half to A. G. Steele. Baling-press	285,621	Sept. 25	1786	508	24	1236
Hollowed, John, *et al.* (See Byrnes, Joseph, assignor.)						
Holly, Solomon T., Rockford, Ill. Hose-carriage	274,771	Mar. 27	1965	546, 547	23	1196
Holman, Calvin J., Chicago, Ill. Hand-truck	270,068	Jan. 2	282	83	23	57
Holman, Ezekiel, Sandy, Utah Ter. Combined roasting and smelting furnace	286,822	Oct. 16	1312	357, 358	25	253
Holman, Jerome B., *et al.* (See Schaeppi, Julius, assignor.)						
Holman, John W., *et al.* (See Rote, Charles V., assignor.)						
Holman, Thomas, Salem, Oreg. Screen-cleaning device	271,847	Feb. 6	318	87	23	497
Holman, William J., Fort Wayne, Ind., assignor of one-half to M. C. White, Minneapolis, Minn. Bridge	290,054	Dec. 11	846	240, 241	25	1043
Holmer, John B., Chicago, Ill. Cigar-holder	276,042	Apr. 17	1513	416	23	1501
Holmes, Booth & Haydens. (See Phillips, Herbert O., assignor.)						
Holmes, Charles P., Gouverneur, N. Y. Car-axle lubricator	273,991	Mar. 13	955	263	23	1005
Holmes, Charles P., Gouverneur, N. Y. Railway-car-axle lubricator	278,964	June 5	430	118	23	2197
Holmes & Co., M. M. (See Reeves, Charles W., assignor.)						
Holmes, Daniel B., *et al.* (See Spooner, Samuel P., assignor.)						
Holmes, Edward C., Newark, N. J. Catch for bag-frames	272,880	Feb. 27	1664	465	23	753
Holmes, Fred H., Hyde Park, Mass. Hydocarbon apparatus for heating and lighting	269,760	June 19	1415	396	23	2379
Holmes, Frederick H., West Brompton, county of Middlesex, England. Siren for signaling	281,070	July 10	900	250, 251, 252	24	166
Holmes, Isaac Q., Clarksville, Ark. Breech-loading fire-arm	273,684	Mar. 6	573	152	23	939
Holmes, Isaac Q., Clarksville, Ark. Nut-lock	284,013	Aug. 28	1893	530	24	866
Holmes, Isaac Q., Clarksville, Ark. Moth-catcher for bee-hives	284,014	Aug. 28	1894	531	24	866
Holmes, Isaac Q., Clarksville, Ark. Wrench	284,015	Aug. 28	1895	531	24	866
Holmes, James S. (See Liess and Mahar, assignors.)						
Holmes, Jason F. (See Wyatt and Holmes.)						
Holmes, Jesse, Stoughton, Mass. Crimping-machine	276,408	Apr. 24	1978	547, 548	23	1588
Holmes, John, Newark, N. J. Lamp-wick trimmer	278,965	June 5	431	118	23	2197
Holmes, John G. (See Haigh, Joseph P., assignor.)						
Holmes, Joseph A., Greenland, N. H. Elevator-bucket	290,053	Dec. 11	845	240	25	1042
Holmes, Joseph W., Batavia, N. Y. Solar theodolite	275,913	Apr. 17	1360	374, 375	23	1475
Holmes, Josephine M., Sioux City, Iowa. Sad-iron holder	289,536	Dec. 4	906	58	25	922
Holmes, Nelson, Ypsilanti, Mich. Washing-machine	285,411	Sept. 25	1535	433	24	1189

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Holmes, Robert. (See Rowe, Holmes, and Dawson.)						
Holmes, Thomas J., Boston, Mass. Manufacture of compound tubes	275,826	Apr. 17	1256	345	23	1456
Holmes, William C., assignor to himself and J. F. Nutting, Atlanta, Ga. Leveling-instrument	284,424	Sept. 4	325	90	24	958
Holmgreen, Julius H., assignor to himself and R. Bloss, Muskegon, Mich. Railway-track joint	278,016	May 22	1839	501	23	1961
Holt, Gardner L., Springfield, Mass., assignor to W. H. Robertson, Brooklyn, N. Y. Watch-key or holding-tool	278,550	May 29	2532	691	23	2091
Holt, George H., West Chelmsford, Mass. Pump	279,949	June 26	1652	463	23	2427
Holt, John P., Cleveland, Ohio. Portable forge	280,824	July 10	605	169	24	113
Holt, Noah W., Buffalo, N. Y. Drive-chain	270,433	Jan. 9	740	217	23	154
Holt, Noah W., Buffalo, N. Y. Tightening device for belt-pulleys	273,081	Feb. 27	1888	530	23	792
Holt, Noah W., Buffalo, N. Y. Roller-mill	286,440	Oct. 9	829	225	25	161
Holt, Noah W., Buffalo, N. Y. Feed mechanism for roller-mills	288,808	Nov. 20	1282	351 352	25	745
Holt, Noah W., Buffalo, N. Y., assignor, by mesne assignments, to G. T. Smith Middlings Purifier Company, Jackson, Mich. Dust-collector	273,533	Mar. 6	374	99 100	23	898
Holt, Orrin S., Chippewa Falls, Wis. Car-truck	287,936	Nov. 6	184	53	25	539
Holt, Peter, Philadelphia, Pa. Cap for steam-pipe clothing	276,044	Apr. 17	1514	417	23	1501
Holt, Robert A. (See Gleason and Holt.)						
Holt, Theodore, Lexington, Tex. Plow-gage	285,264	Sept. 18	1356	382	24	1153
Holt, Thomas, Jr., assignor of one-half to J. Terhune, Midland Park, N. J. Truck	281,071	July 10	904	252	24	167
Holt, William, Chicago, Ill. Burner for vapor-stoves, &c	283,395	Aug. 21	1121	317	24	715
Holton, Merritt A., Fitchburg, Mass. Machine for forming blanks for shoe-tips	271,848	Feb. 6	318	88	23	497
Holtsclaw, John W. (See Harris, William W., assignor.)						
Holtzer, Charles W., Brookline, Mass. Fixture or bracket for electric lamps	282,521	Aug. 7	55	16	24	509
Holyoke Machine Company. (See Alden, Albert S., assignor.)						
Holyoke Water Power Company. (See Emerson, James, assignor.)						
Holzer, William, assignor, by mesne assignments, to Edison Lamp Company, Harrison, N. J. Manufacture of incandescing lamps	289,837	Dec. 11	584	162	25	995
Holzer, William, assignor, by mesne assignments, to Edison Lamp Company, Harrison, N. J. Manufacture of incandescing electric lamps	289,838	Dec. 11	585	163	25	996
Homan & Co. (See Vicken, George P., assignor.)						
Honigmann, Friedrich, Aachen, Germany. Air-compressing engine	288,435	Nov. 13	818	221 222	25	658
Honigmann, Moritz, Aix-la-Chapelle, Germany. Utilization of exhaust-steam	287,937	Nov. 6	186	53	25	540
Hoober, John H., Kentland, Ind. Cultivator	279,245	June 12	786	216	23	2367
Hood, Harrison P., Indianapolis, Ind. Handle attachment	275,914	Apr. 17	1363	375	23	1475
Hood, Harrison P., assignor to E. C. Atkins, Indianapolis, Ind. Saw-handle	284,739	Sept. 11	717	200	24	1032
Hood, Henry A. (See Gill, Thomas, assignor.)						
Hooker, George W. (See Weld, Calvin J., assignor.)						
Hooker, John D., San Francisco, Cal. Toy dart	282,638	Aug. 7	198	57	24	534
Hooker, Thomas, Syracuse, N. Y. Twist-drill	274,943	Apr. 3	77	21	23	1238
Hooker, William D., St. Louis, Mo. Packing for pistons and plungers	280,038	June 26	1765	496	23	2446
Hooker, William D., St. Louis, Mo. Steam-pump regulator	288,436	Nov. 13	820	222	25	658
Hooper, Charles J., Edinburg, Miss. Feed mechanism for cotton-seed mills	288,809	Nov. 20	1283	352	25	746
Hooper, Frank B. (See Ladd, Daniel E., assignor.)						
Hooper, Henry. (See Deegan, Mathew F., assignor.)						
Hooper, Henry O., Fresno, Cal. Hammer	271,709	Feb. 6	146	40	23	465
Hooper, Jethro M., Fort Smith, Ark. Key-board attachment for musical instruments	290,430	Dec. 18	1332	369	25	1136
Hooper, Lorenzo D., Coffeyville, Kans. Rotary steam-engine	287,379	Oct. 23	2022	550	25	386
Hooper, Will P. (See Marquart and Hooper.)						
Hoopes, David R., Oskaloosa, Iowa. Grinding-mill	281,072	July 10	906	253	24	167
Hoopes, William H., and G. Paist, Baltimore, Md. Contractible core or center	278,551	May 29	2533	691	23	2091
Hoosier Drill Company. (See Conner, Albert C., assignor.)						
Hoosier Drill Company. (See Westcott, John M., assignor.)						
Hoover, Abel, *et al.* (See Aldrich, Wales, assignor.)						
Hoover, Cornelius S., Lancaster, Pa. Millstone-dressing machine	271,849	Feb. 6	319	88	23	497
Hoover, Cornelius S., Lancaster, Pa. Millstone-dressing machine	278,335	May 29	2271	621	23	2045
Hoover, Daniel W., Gas Point, Cal. Extension-ladder and truck	280,475	July 3	177	47	24	32
Hoover, John R., Elizabeth, N. J. Feed-regulator for hemp drawing and spinning machines	275,046	Apr. 3	215	58	23	1263
Hoover, Samuel, *et al.* (See Myers, John G. L., assignor.)						
Hoover, William L., and J. Newcomb, Indianapolis, Ind. Fanning-machine	278,795	June 5	161	47	23	2150
Hope, Alexander C., Carterville, Ill. Elevator safety-catch	283,110	Aug. 14	761	214	24	642
Hope, Charles, assignor of one-half to W. Werts, Camden, N. J., and W. H. Mattson, Philadelphia, Pa. Machine for threading sheet-metal screws	270,314	Jan. 9	574	169	23	122
Hope, John, Providence, R. I. Engraving-machine	281,509	July 17	1464	402	24	270
Hope, John, Providence, R. I. Pantograph engraving-machine	281,510	July 17	1465	402 403	24	270
Hopedale Machine Company. (See Getchell, Seth S., assignor.)						
Hopedale Machine Company. (See Tarr, Gardiner L., assignor.)						
Hopf, George, Chicago, Ill. Vent for beer-barrels	281,694	July 24	1707	464	24	315
Hopkins, Alfred N., Birmingham England. Japanning metal sheets or plates	278,707	June 5	40	12	23	2131
Hopkins, Alfred N., Birmingham, and G. Hatton, Hagley, England. Ornamenting surfaces of tin-plate and other sheet metal	286,823	Oct. 16	1313	.....	25	253
Hopkins, Andrew J., Rochester, N. Y. Pump	274,446	Mar. 20	1554	425 426	23	1117
Hopkins, Cabel B., Payne's Depot, Ky. Automatic money-changer	288,942	Nov. 20	1441	397 398	25	775
Hopkins, David A., Park Ridge, N. J. Journal-bearing	286,927	Oct. 16	1443	396	25	275
Hopkins, David A., Park Ridge, N. J. Journal-bearing. (Reissue)	10,426	Dec. 18	1625	447	25	1187
Hopkins & Dickinson Manufacturing Company. (See Lincoln, Thomas, assignor.)						
Hopkins, Ervin, Jr., *et al.* (See Beck, Marshall, assignor.)						
Hopkins, George. (See Foakes, Edward, assignor.)						
Hopkins, George M., Brooklyn, assignor to Economic Motor Company, New York, N. Y. Gas-engine	284,555	Sept. 4	478	134	24	985
Hopkins, George M., Brooklyn, assignor to Economic Motor Company, New York, N. Y. Gas-engine	284,556	Sept. 4	481	135	24	986
Hopkins, George M., Brooklyn, assignor to Economic Motor Company, New York, N. Y. Gas-engine	284,557	Sept. 4	481	135	24	986
Hopkins, George M. and I. N., Brooklyn, assignors to Economic Motor Company, New York, N. Y. Gas-engine	284,851	Sept. 11	851	239	24	1055
Hopkins, Harvey L., Chicago, Ill. Harvester-cutter	273,082	Feb. 27	1889	531	23	792
Hopkins, Harvey L., Chicago, Ill. Harvester-cutter	273,083	Feb. 27	1891	531	23	792
Hopkins, Henry C., Covington, Ky. Clothes-wringer	270,800	Jan. 16	1204	348	23	251

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hopkins, Henry C., Covington, Ky. Clothes-wringer	278,966	June 5	431	118	23	2197
Hopkins, Henry C., Covington, Ky. Mounting wheels on their shafts	282,322	July 31	2520	691	24	459
Hopkins, I. Newton. (See Hopkins, George M. and I. N.)						
Hopkins, Joseph W., New York, assignor to G. W. Garnar, Flushing, N. Y. Printing-press	271,333	Jan. 30	1865	541	23	376
Hopkins, Uri M., Lovett, Ind. Harrow	281,187	July 10	1050	290	24	193
Hopkins, Sylvanus C., Boston, Mass. Folding camp-chair	271,246	Jan. 30	1748	506	23	356
Hopkins, William, and C. Fockler, Dubuque, Iowa. Steam heating-boiler	272,692	Feb. 20	1395	392	23	699
Hopkins, William P., Lawrence, Mass., assignor to G. McKay, Newport, R. I., and J. W. Brooks, Cambridge, Mass., trustees. Nailing-machine	289,103	Nov. 27	1645	455	25	818
Hopkinson, John, Westminster Chambers, county of Middlesex, England. Apparatus for measuring and recording electric currents	277,731	May 15	1488	403, 404	23	1894
Hopkinson, John, and A. Muirhead, Westminster, England. Dynamo-electric machine	280,039	June 26	1767	496, 497	23	2446
Hopmann, Charles, *et al.* (See Ehrhardt, John, assignor.)						
Hopmann, Herman, *et al.* (See Ehrhardt, John, assignor.)						
Hoppe, Henry A., St. Louis, Mo. Fruit-jar cover	275,047	Apr. 3	216	58	23	1263
Hoppe, Louis, Princeton, Minn. Steam-boiler	287,832	Nov. 6	52	16	25	516
Hopper, John F. E. (See Larsen, George, assignor.)						
Hopper, Thomas C. and W. E., Philadelphia, Pa. Gas-governor	283,245	Aug. 14	926	258	24	672
Hopper, Walter E. (See Hopper, Thomas C. and W. E.)						
Hoppes, John J., Springfield, Ohio. Feed-water heater	273,084	Feb. 27	1893	531	23	792
Hoppin, Howard, and A. L. Brown, Providence, R. I. Book, album, &c.	285,897	Oct. 2	151	42, 43	25	30
Hopping, Jacob O., Sagg, N. Y. Thill-coupling	278,138	May 22	1987	546	23	1987
Hopson, John M. (See Beardsley and Hopson.)						
Horack, Charles L., Brooklyn, N. Y. Automatic fire-extinguisher	270,801	Jan. 16	1204	348	23	251
Horack, Charles L., Brooklyn, N. Y. Automatic fire-extinguisher	270,952	Jan. 23	1394	402	23	289
Horack, Charles L., Brooklyn, N. Y. Automatic fire-extinguisher	272,693	Feb. 20	1397	392	23	699
Horack, Charles L., Brooklyn, N. Y. Automatic fire-extinguisher	288,059	Nov. 6	336	94	25	564
Horak, F. J. (See Bilan, Louis, assignor.)						
Hörcher, Johann S. G. F., Altona, Prussia, Germany. Carriage	282,081	July 31	2199	604	24	407
Hore, Charles E., Brooklyn, N. Y. Soap compound	275,212	Apr. 3	427	.....	23	1299
Horlick, William, Racine, Wis. Granulated food for infants and process of preparing the same	278,967	June 5	432	.....	23	2197
Hörmann, Arnold, Hoboken, N. J. Drawing-table	274,605	Mar. 27	1772	491, 492	23	1162
Horn, Charles C., Waterbury, Conn. Machine for scalping ingots	284,302	Sept. 4	180	51	24	934
Horn, William J., Chicago, Ill. Engine-lubricator	290,055	Dec. 11	848	241	25	1043
Hornbeck, Cornelius F., Owego, N. Y. Wheel-harrow	272,254	Feb. 13	828	231	23	596
Hornbeck, Lorenzo D., assignor of one-half to J. S. Graham, Paxton, Ill. Neck-yoke	270,802	Jan. 16	1207	348	23	251
Hornberger, H. O. (See Sims, James C., assignor.)						
Hornberger, Jacob, New York, N. Y. Hand-mirror	286,699	Oct. 16	1162	312	25	926
Hornberger, Louis, assignor to E. Miller & Co., Meriden, Conn. Extension-chandelier	290,883	Dec. 25	1920	530	25	1246
Horne, Edward G., Calloway, Tex., assignor to Carver Gin and Machine Company, Memphis, Tenn. Cotton-gin hopper	272,694	Feb. 20	1399	392, 393	23	700
Horne, George W., New York, N. Y. Safety-switch stand	290,194	Dec. 11	1006	283	25	1072
Horne, George W., assignor to E. Rochat, New York, N. Y. Feed-bag attachment	273,842	Mar. 13	780	211	23	976
Horne, William C., Aldermanbury, London, England. Manufacture of luminous paper, &c.	290,772	Dec. 25	1786	.....	25	1223
Horner, Albert N., Baltimore, Md. Stocking-supporter	272,695	Feb. 20	1400	393	23	700
Horner, Angel. (See Scharnweber, William, assignor.)						
Horner Brothers. (See Bairstow, William H., assignor.)						
Horner, John C., Leon, Iowa. Whiffletree-hook	272,255	Feb. 13	829	232	23	597
Horner, Malachi L., Auburn, N. J. Tooth for thrashing-machines	282,027	July 24	2125	582	24	387
Horner, William H., and F. Hyde, Baltimore, Md. Waterproofing fabrics	273,233	Feb. 27	2089	.....	23	827
Hornung, Anton N., Chicago, Ill. Barber's chair	280,611	Oct. 16	1046	282	25	906
Horrall, William A., assignor of one-half to W. H. Farris, Washington, Ind. Cotton-planter	286,700	Oct. 16	1162	313	25	226
Horrocks, William, Ilion, N. Y. Cabinet for type-writers and sewing-machines	281,765	July 24	1802	492	24	332
Horsford, Eben N., Cambridge, Mass., and C. A. Catlin, Providence, R. I. Preparing alkaline bicarbonates	270,668	Jan. 16	1043	.....	23	290
Horsman, Edward I. (See Crandall, William E., assignor.)						
Horton, Bertrand J., Pawtucket, R. I. Necktie-fastener	283,889	Aug. 28	1714	483	24	834
Horton, David K., Boston, Mass. Game-counter	280,375	July 3	43	12	24	10
Horton, Edward E., Toronto, Ontario, Canada. Type-writer	285,265	Sept. 18	1357	383	24	1153
Horton, Edward E., Toronto, Ontario, Canada. Type-writer	286,824	Oct. 16	1314	358	25	253
Horton, Everett, New Haven, Conn. Machine for ornamenting metal surfaces	278,139	May 22	1987	546	23	1987
Horton, Everett, New Haven, Conn. Ornamenting metal surfaces	278,552	May 29	2534	691	23	2091
Horton, George W., Cincinnati, assignor of one-half to L. Emerson, College Hill, Ohio. Automatic fire-extinguisher	280,376	July 3	44	12	24	10
Horton, James A., Reading, Mass. Friction-movement	277,282	May 8	957	257	23	1797
Horton, Numon N., Kansas City, Mo. Sash-holder	276,409	Apr. 24	1980	548	23	1589
Horton, William J. (See Dempster and Horton.)						
Horton, William J. (See Rissey and Horton.)						
Hosack, John, Raymond's, Ohio. Harness-buckle	277,901	May 22	1698	463	23	1938
Hosch, Ferdinand, Brooklyn, N. Y. Machine for cleaning fur robes	286,928	Oct. 16	1444	397	25	275
Hösch, Friedrich C., Nuremberg, Bavaria, Germany. Photo-mechanical printing in colors	287,938	Nov. 6	187	53, 54, 55	25	540
Hosea, Lewis M. (See Breen, Peter, assignor.)						
Hosea, Lewis M., *et al.* (See Gearing, Charles, assignor.)						
Hosea, Lewis M. (See Kearney, Frank, assignor.)						
Hosea, Robert H., Cincinnati, Ohio. Hand-net frame	273,279	Mar. 6	40	13	23	841
Hosford, Seymour A., assignor to J. C. Rae, Elmira, N. Y. Seal-lock	289,935	Jan. 2	131	39	23	27
Hosie, James P. (See Hosie, John H. and J. P.)						
Hosie, John H. and J. P., Scranton, Pa. Coal-crushing roller	279,761	June 19	1416	396	23	2380
Hoskins, Clanmar P. (See Pearson, Robert P., assignor.)						
Hoskins, Joshua A., Janesville, Wis. Potato-planting attachment for corn-planters	290,233	Dec. 18	1066	298	25	1091
Hoskins, Leander M., Madison, Wis. Windmill	274,329	Mar. 20	1398	383	23	1090
Hosmer, Giles S., Meadville, Pa. Fence	283,486	Aug. 21	1237	347	24	735
Hosner, Riley J., assignor of one-half to E. Mack, Romeo, Mich. Stump-puller	285,898	Oct. 2	152	43	25	30
Hotchkiss, Almerino, St. Louis, Mo. Device for cresting fences	282,895	Aug. 7	504	141	24	589
Hotchkiss, Benjamin B., Paris, France. Wire-wound gun	269,936	Jan. 2	133	40	23	28
Hotchkiss, Benjamin B., Paris, France. Breech-loading cannon	270,589	Jan. 16	938	271, 272	23	201
Hotchkiss, Benjamin B., Paris, France. Torpedo-boat	278,708	June 5	41	12, 13	23	2132

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Hotchkiss, Benjamin B., New York, N. Y. Breech-loading cannon	270,590	Jan. 16	942	272, 273	23	202
Hotchkiss, Benjamin B., New York, N. Y. Breech-loading cannon	270,953	Jan. 23	1397	403	23	290
Hotchkiss, Benjamin B., New York, N. Y. Machine-gun. (Reissue)	10,280	Feb. 6	524	141	23	531
Hotchkiss, Benjamin B., New York, N. Y. Shell	272,052	Feb. 13	583	157	23	553
Hotchkiss, Clark B. (See Ramsay, Charles W., assignor.)						
Hotchkiss, James F., Plainfield, N. J. Boiler-cleaner	276,410	Apr. 24	1981	548	23	1589
Hotchkiss, James F., Plainfield, N. J. Boiler-cleaner	276,411	Apr. 24	1982	549	23	1589
Hotchkiss, Leman, *et al.* (See Robinson, Charles K., assignor.)						
Hotchkiss, Nellie L., *et al.* (See Robinson, Charles K., assignor.)						
Hotchkiss, Timothy D. Higgannm, Conn. Cutting-pliers	280,825	July 10	606	169	24	113
Hotchkiss, Walter R., *et al.* (See Paul, George D., assignor.)						
Hottinger, John, St. Louis, Mo. Machine for describing or cutting ellipses	288,810	Nov. 20	1284	352	25	746
Houchin, Thomas W., New York, N. Y. Gas-lighting torch	273,085	Feb. 27	1894	531, 532	23	793
Houchin, Thomas W., New York, N. Y. Folding pocket cook-stove	274,330	Mar. 20	1309	383, 384	23	1090
Houchin, Thomas W., New York, N. Y. Telescopic safety-torch for lighting gas	282,522	Aug. 7	58	17	24	510
Houck, Austin S. (See Houck, Greenlee, and Houck.)						
Houck, Edwin, A. M. Greenlee, and A. S. Houck, Bedford, Iowa. Check-row planter	273,534	Mar. 6	377	100	23	899
Houck, Martin M. (See Lee, Charles E., assignor.)						
Hough, James M., Toledo, Ohio. Combined window-cornice and curtain-pole	282,323	July 31	2520	691	24	459
Hough, John T. (See Scanlan and Hough.)						
Houghtaling, Charles S., *et al.* (See Thomas, John W., assignor.)						
Houghtaling, Llewellyn A., Elmira, N. Y. Car-coupling	271,850	Feb. 6	321	89	23	497
Houghton, Alfred A., Buffalo, N. Y. Weighing-scale	270,221	Jan. 9	471	138	23	103
Houghton, Alfred A., Buffalo, N. Y. Counter-scale	276,180	Apr. 24	1684	465	23	1539
Houghton, Alfred A., Buffalo, N. Y. Scale	280,377	July 3	46	12	24	10
Houghton, Charles, Boston, Mass. Apparatus for filtering water	272,881	Feb. 27	1665	465	23	753
Houghton, Darius, Skowhegan, Me. Screw-cutting tool	272,139	Feb. 13	694	189	23	572
Houghton, Edward J. (See Stroudley and Houghton.)						
Houghton, George. (See Fuller, Eben E., assignor.)						
Houghton, Henry H. (See True and Houghton.)						
Houghton, Samuel H., Harvard, Mass. Sheave for sliding doors	288,338	Nov. 13	687	189	25	635
Houlehan, James, assignor of one-half to C. W. Higgins, Toledo, Ohio. Wrench	278,553	May 29	2535	691	23	2092
Houlehan, James, assignor to G. G. Hadley and G. P. Merrill, Toledo, Ohio. Wrench	289,347	Nov. 27	1936	537	25	873
Hoult, David H., Lansdale, Pa. Safety railway-switch	280,476	July 3	178	47	24	32
Houman, Marinus, Paterson, N. J. Clothes-line support	286,441	Oct. 9	831	225	25	161
Houpe, Pleasant R., Oak Forest, N. C. Shingle-machine	276,412	Apr. 24	1984	550	23	1589
Houpt, John, Springtown, Pa. Compound feed-pump for steam-boilers	285,622	Sept. 25	1787	508	24	1236
House, Alfred B., assignor of two-thirds to J. B. Callen and H. E. McFarland, Junction City, Kans. Car-coupling	284,205	Sept. 4	62	17	24	915
House, George A. (See Morris, George M., assignor.)						
House, Henry A., Bridgeport, Conn., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine	283,890	Aug. 28	1715	483, 484	24	834
House, James A., Bridgeport, Conn. Corset	273,280	Mar. 6	41	13	23	841
House, James A., Bridgeport, Conn. Apparatus for forming and shaping corsets	288,637	Nov. 20	1068	294	25	709
House, Joseph L., Hutchinson, Minn. Ditching-machine	289,839	Dec. 11	585	163	25	996
Housel, George, *et al.* (See Ainsworth, Robert H., assignor.)						
Housel, Joseph R., Watsontown, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dentist's flask	283,487	Aug. 21	1237	347	24	735
Houser, George H. (See Voorhis and Houser.)						
Houssart, Charles V. (See Cunningham, Houssart, and May.)						
Houston, Adelbert D., *et al.* (See Blair, James C., assignor.)						
Houston, Edwin J., Philadelphia, Pa., assignor to American Electric Company, New Britain, Conn. Dynamo-electric machine	272,256	Feb. 13	829	232	23	597
Houston, Edwin J., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, New Britain, Conn. Dynamo-electric machine	283,343	Aug. 14	1051	295, 296	24	697
Houston, Edwin J., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, New Britain, Conn. Dynamo-electric machine	286,612	Oct. 16	1047	282, 283	25	206
Houston, James A., Boston, Mass. Stove	276,587	May 1	56	16	23	1637
Houston, John, Brooklyn, N. Y. Sand-core for casting	283,344	Aug. 14	1053	296	24	697
Hovey, Charles F., assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Apparatus for reducing the density of illuminating-gases	273,843	Mar. 13	781	212	23	976
Hovey, F. H. (See Blackburn, Frederick, assignor.)						
Hovey, Henry. (See Dow, Christopher C., assignor.)						
How, Edward, Erin, Ontario, Canada. Double-tree	285,206	Sept. 18	1358	383	24	1153
How, Woodbury S., Philadelphia, Pa. Insulation of electrical conductors	285,267	Sept. 18	1359	383	24	1153
How, Woodbury S., Philadelphia, Pa. Artificial tooth-crown	288,177	Nov. 6	476	131	25	590
How, Woodbury S., Philadelphia, Pa. Combined rasp and saw	289,104	Nov. 27	1646	456	25	818
How, Woodbury S., Cincinnati, Ohio. Mechanical movement	275,657	Apr. 10	1035	280	23	1411
How, Woodbury S., Cincinnati, Ohio, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth	275,491	Apr. 10	823	223	23	1375
How, Woodbury S., Cincinnati, Ohio, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth	276,245	Apr. 24	1763	491	23	1553
How, Woodbury S., Cincinnati, Ohio, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown	282,639	Aug. 7	198	57	24	534
Howard, Abel T. (See Sickles, Gerard, Jr., assignor.)						
Howard, Albion P., assignor of one-half to T. D. Murphy, Brooklyn, N. Y. Apparatus for heating the air in heat-flues of buildings	286,134	Oct. 2	434	118	25	80
Howard, Charles. (See Chandler and Williams, assignors.)						
Howard, Charles A., Pontiac, Mich. Bolster-spring for vehicles	282,987	Aug. 14	603	170	24	615
Howard, Charles P. (See Howard, James L. and C. P.)						
Howard & Co., Charles. (See Mallett, Francis W., assignor.)						
Howard & Co., James L. (See Howard, James L. and C. P., assignors.)						
Howard, Davis W., Boston, Mass. Cloak	272,440	Feb. 20	1077	303	23	643
Howard, Edward, Gasport, N. Y. Treating tobacco	273,362	Mar. 6	162	45	23	862
Howard, Frank A. (See Wellman, Willard F., assignor.)						
Howard, Fred. A., South Easton, Mass. Handle for carboys and other vessels	283,785	Aug. 28	1599	452	24	815
Howard, Harlan S., Charles City, Iowa. Harrow	273,535	Mar. 6	378	100	23	899
Howard, Hiram M. (See Potter, Samuel A., assignor.)						
Howard, Horace B., Belvidere, Ill. Spring bed-bottom	274,331	Mar. 20	1400	384	23	1090
Howard, Horatio P. (See O'Brien, Simon, assignor.)						
Howard, James, Philadelphia, Pa. Composition for preserving food	276,246	Apr. 24	1764	.....	23	1553

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Howard, James, and E. T. Bousfield, Bedford, England. Grain-binding machine	274,772	Mar. 27	1967	547, 548	23	1197
Howard, James L. and C. P., Hartford, Conn. Water-closet	284,016	Aug. 28	1896	531	24	866
Howard, James L. and C. P., assignors to J. L. Howard & Co., Hartford, Conn. Lamp for railway-cars and other purposes	271,462	Jan. 30	2040	587	23	408
Howard, Lyman D., and A. Chance, Philadelphia, Pa., assignors to American Lubricating Company of New Jersey. Car-axle lubricator	290,987	Dec. 25	2068	569	25	1270
Howard, Samuel F., trustee. (See Humphrey, Daniel W. G., assignor.)						
Howard, Stephen C., New York, N. Y. Sleeve-button	273,844	Mar. 13	782	212	23	976
Howard, Stephen M., Eatonton, Ga. Animal-poke	285,268	Sept. 18	1360	383	24	1153
Howard, William C. (See Wales, Sigourney, assignor.)						
Howard, William H., *et al.* (See Pattillo, Robert M., assignor.)						
Howarth, Daniel. (See Miller and Howarth.)						
Howden, James, Glasgow, county of Lanark, Scotland. Air-supplying device for steam-boiler furnaces	288,437	Nov. 13	821	223	25	659
Howdon, Robert J., assignor of one-half to Cincinnati Coffin Company, Cincinnati, Ohio. Soft-metal-casting apparatus	286,925	Oct. 16	1316	359	25	254
Howe, Albert D., Coshocton, Ohio, assignor of one-half to J. H. Askrens. Axle-lubricator	280,826	July 10	607	169	24	113
Howe, C. J. (See Shepherd, James R., assignor.)						
Howe & Co., Elbridge. (See Kimball, William B., assignor.)						
Howe, Edwin J., Newark, N. J. Fire-escape	275,658	Apr. 10	1037	280	23	1411
Howe, Edwin J., Newark, N. J. Combined water filter and cooler	289,263	Nov. 27	1830	505	25	853
Howe, Eugene L., assignor to Ewart Manufacturing Company, Chicago, Ill. Drive-chain	273,845	Mar. 13	783	212	23	976
Howe, George A., Boston, Mass. Drawers	277,283	May 8	958	257	23	1798
Howe, George H., Hoosic Falls, N. Y. Apparatus for adjusting harvester-reels	288,811	Nov. 20	1285	332	25	746
Howe, Hezekiah, Wellsville, N. Y. Heating apparatus	285,485	Sept. 25	1620	454, 455	24	1204
Howe, Jesse A., assignor of one-third to J. P. Lawrence, Norwalk, Ohio. Post-office box	273,992	Mar. 13	927	264	23	1006
Howe, John. (See Brissett and Howe.)						
Howe, John P., Cherokee, Iowa. Combined cultivator and harrow	281,221	July 10	1095	303	24	201
Howe Machine Company. (See Leavitt, Rufus, assignor.)						
Howe, Martin V. B., Erving, Mass. Chair-seat	275,383	Apr. 10	682	181	23	1351
Howe, Martin V. B., Erving, Mass. Office-stool	275,384	Apr. 10	683	181	23	1351
Howe, Martin V. B., Erving, Mass. Machine for sandpapering chair-seats	275,385	Apr. 10	684	181	23	1351
Howe, Martin V. B., Erving, Mass. Chair-seat	290,884	Dec. 25	1921	530	25	1246
Howe, Patrick, Boston, Mass. Cloth-cutting machine	280,827	July 10	607	170	24	114
Howe, Peter R., Fortsville, assignor of one-half to C. M. Mott, Glens Falls, N. Y. Auxiliary rifle-barrel and extractor therefor	282,194	July 31	2362	650	24	431
Howe, Solon G., assignor to G. L. Carrington and C. F. Elliot, Detroit, Mich. Mallet	276,247	Apr. 24	1765	491	23	1553
Howe, Thomas B., Scranton, Pa. Car-coupling	273,736	Mar. 13	641	171	23	959
Howe, Thomas B., Scranton, Pa. Car-step	274,197	Mar. 20	1220	336	23	1059
Howe, Warren B., Chicago, Ill. Machine for forming wrappers for packages of small merchandise	270,669	Jan. 16	1044	299	23	220
Howe, William F., assignor to A. J. Reynolds, Chicago, Ill. Apparatus for malting	272,257	Feb. 13	833	232, 233	23	597
Howie, George B., Chicago, Ill. Horseshoe	287,833	Nov. 6	53	16	25	517
Howell, Martin A., Jr., Chicago, Ill. Manufacture of files	273,536	Mar. 6	378		23	899
Howell, Martin A., Jr., Chicago, Ill. File	273,537	Mar. 6	380	101	23	899
Howell, Martin A., Jr., Chicago, Ill. Flask for carbureting files or other cutting-tools	283,396	Aug. 21	1123	317	24	715
Howell, Stoddart, New Orleans, La. Constructing levees and embankments	277,732	May 15	1491	404	23	1894
Howell, William G., Philadelphia, Pa. Nail	271,983	Feb. 6	490	132	23	525
Howell, William G., assignor of one-half to W. Gerhard, Philadelphia, Pa. Pile of iron and steel	271,637	Feb. 6	66	18	23	452
Howell, William G., assignor to W. Gerhard, Philadelphia, Pa. Iron and steel fagot	276,139	Apr. 17	1634	450	23	1522
Howell, William G., assignor of one-half to W. Gerhard, Philadelphia, Pa. Pile of combined iron and steel	281,366	July 17	1285	356	24	239
Howell, William H. (See Hyam, Benjamin D., assignor.)						
Howell, William H., Thorold, Ontario, Canada. Pulp-grinder	272,258	Feb. 13	836	233	23	597
Howells, William C., Jefferson, Ohio. Fruit-gatherer	278,017	May 22	1840	501	23	1961
Howes, Babcock & Ewell. (See Martin, Joseph B., assignor.)						
Howes, John, Worcester, Mass. Filter	276,820	May 1	368	98, 99	23	1691
Howes, John, Worcester, Mass. Filter	280,828	July 10	610	170, 171	24	114
Howes, John, Worcester, Mass. Stop-cock	280,829	July 10	613	171	24	114
Howland & Co. (See Young, Cornelius, assignor.)						
Howland, Edmund S., Batavia, Ill. Metallic grinding-ring	286,613	Oct. 16	1049	283	25	207
Howland, Edward D., Farm Ridge, Ill. Tile and drain cutter	286,826	Oct. 16	1317	359	25	254
Howland, Edwin P., Washington, D. C. Inhaling air-chamber for dental and surgical operations, &c	280,040	June 26	1769	497	23	2447
Howland, Frederick L., *et al.* (See Howland, George H., assignor.)						
Howland, Frederick L., assignor of one-half to J. H. Abbott, Blue Earth City, Minn. Sorghum evaporator and rotary skimmer	270,545	Jan. 9	883	256	23	182
Howland, George H., assignor of two-thirds to F. L. Howland and P. B. Davy, Blue Earth City, Minn. Wheel-mounted manure-fork, &c	285,486	Sept. 25	1622	455	24	1205
Howland, Mark, Waterbury, Conn. Snow-shovel	288,812	Nov. 20	1287	353	25	746
Howland, Ray, Brooklyn, N. Y. Fire-escape	272,259	Feb. 13	837	233	23	598
Howland, Samuel D., *et al.* (See Hayes, William, Jr., assignor.)						
Howland, William H., San Francisco, Cal. Machine for grinding and pulverizing ores	281,511	July 17	1467	403	24	271
Howlett, Frank C., *et al.* (See Fitch, William E., assignor.)						
Howley, Thomas F. (See Phillips, John, assignor.)						
Howling, Richard M., Ballarat, Victoria. Spark-arrester	281,766	July 24	1803	492	24	333
Howse, Henry L., San Francisco, Cal. Cooking apparatus	271,463	Jan. 30	2041	587	23	408
Howser, Jonathan N., Sidney, Ill. Ear-corn cutter	277,284	May 8	959	258	23	1798
Howson, Henry, Philadelphia, Pa. Button-fastener	286,929	Oct. 16	1445	397	25	275
Hoxsie, Ezra. (See Hoxsie, George L. and E.)						
Hoxsie, George L. and E., Holloway, Mich. Valve-gear for steam-engines	273,846	Mar. 13	784	213	23	977
Hoxie, Elias, Red Creek, N. Y. Dash-board	280,378	July 3	46	13	24	10
Hoyda, Anton. (See Ekl, Skala, Hoyda, and Cizek.)						
Hoye, Stevie M., assignor of one-half to J. P. Lein, Birmingham, Conn. Machine for cutting shoe-soles	282,523	Aug. 7	59	17	24	510
Hoyer, Gustav, Schönebeck-on-the-Elbe, Prussia, Germany. Machine for cutting fabrics in measured lengths	280,178	June 26	1914	538	23	2473
Hoyt, Frederick J., New York, N. Y. Ore-furnace	272,979	Feb. 27	1749	489	23	767

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hoyt, Henry I. (See Boynton, Almanzor W., assignor.)						
Hoyt, Isaac N., Augusta, Wis. Car-coupling	281,271	July 17	1165	329	24	219
Hoyt, Lewis S., Stamford, Conn., assignor of one-half to J. M. Culver, North Abington, Mass. Stove-leg	278,433	May 29	2391	652	23	2066
Hoyt, Lewis S., assignor to himself and C. A. Shaw, Boston, Mass. Bottle-stopper	285,132	Sept. 18	1203	338	24	1124
Hoyt, Lucius H., Danbury, Conn. Apparatus for shaping hats	277,035	May 8	658	172	23	1745
Hoyt, Lucius P., Aurora, Ill. Endless-chain bed for wood-working machines	275,213	Apr. 3	427	117	23	1299
Hoyt, William E., Bellaire, Ohio. Warehouse-truck	286,303	Oct. 9	664	177	25	131
Hubbard, Alva. (See Hutchins, William H., assignor.)						
Hubbard, Frederick H., Brooklyn, N. Y. Apparatus for eradicating sewer-gas and destroying germs	274,332	Mar. 20	1402	385	23	1090
Hubbard, Frederick H., assignor to himself and H. F. Beebe, Brooklyn, N. Y. Disinfecting apparatus	282,195	July 31	2363	650	24	431
Hubbard, George K., La Grange, Ind. Bee-hive	270,803	Jan. 16	1208	{348 / 349}	23	252
Hubbard, George M., assignor to O. B. North & Co., New Haven, Conn. Breast-strap hook	271,851	Feb. 6	323	89	23	498
Hubbard, George M., assignor to O. B. North & Co., New Haven, Conn. Gag-runner	278,554	May 29	2535	692	23	2092
Hubbard, George W., Windsor, Vt. Nippers	287,437	Oct. 30	2097	570	25	407
Hubbard, John, Lima, Ohio. Glove-fastener	274,606	Mar. 27	1775	493	23	1162
Hubbard, Moses G., Norristown, Pa. Gleaner and binder	281,367	July 17	1285	356	24	239
Hubbard, Richard W. and W., Ashtabula, Ohio. Vehicle-axle	287,438	Oct. 30	2098	570	25	407
Hubbard, Wales, Wiscasset, Me. Paper-file holder	272,260	Feb. 13	838	234	23	598
Hubbard, Wales, Wiscasset, Me., assignor of one-fourth to J. H. May, Washington, D. C., Railway-car	282,324	July 31	2522	{691 / 692}	24	460
Hubbard, Walter E., New York, N. Y. Shirt	272,696	Feb. 20	1401	393	23	700
Hubbard, William. (See Hubbard, Richard W. and W.)						
Hubbard, William. (See Rosebrugh, Abner M., assignor.)						
Hubbell, Newton S., Mechanicsville, Iowa. Speculum and dilator	281,880	July 24	1948	532	24	358
Hubbell, Saunders, Jr., Mount Vernon, Ohio. Bolt	274,121	Mar. 20	1131	311	23	1043
Hubber, James W., San Francisco, Cal. Feed-water heater and purifier	277,285	May 8	960	258	23	1798
Hubel, Fred. A. (See Taylor, Harrison H., assignor.)						
Hubel, Fred. A., Detroit, Mich. Capsule-machine	290,583	Dec. 18	1534	422	25	1172
Hubel, Frederick A. (See Purdie, Charles F., assignor.)						
Hubel, Frederick A., and H. H. Taylor, Detroit, Mich., assignors to said Hubel. Capsule-machine. (Reissue)	10,316	Apr. 17	1645	453	23	1594
Huber, Berthold, Taunton, Mass. Printing-press	270,670	Jan. 16	1046	299	23	290
Huber, Berthold, Taunton, Mass. Printing-press	285,750	Sept. 25	1953	{552 / 553}	24	1264
Huber, Edward. (See Barnhart and Huber.)						
Huber, Edward, Marion, Ohio. Traction-engine	271,464	Jan. 30	2043	588	23	408
Huber, Edward, Marion, Ohio. Road-scraper	283,607	Aug. 21	1369	383	24	760
Huber, Edward, and F. Strobel, Marion, Ohio. Pitman	286,008	Oct. 2	281	79	25	53
Huber, Edward, and F. Strobel, Marion, Ohio. Straw-carrier for thrashing-machines	286,930	Oct. 16	1446	397	25	275
Huber, Emil. (See Gysin and Huber.)						
Huber, Louis C., Huber, Ky. Car-signal	280,179	June 26	1916	538	23	2474
Huber, Thomas, *et al.* (See Lippy, David, assignor.)						
Huber, William, *et al.* (See Lippy, David, assignor.)						
Hubert, Gustav, Grand Haven, Mich. Whiffletree and holdback attachment	282,395	July 31	2523	692	24	460
Hubert, H. Gengembre. (See Young and Hubert.)						
Hubert, Joseph, San Francisco, Cal. Dry ore concentrator	276,181	Apr. 24	1685	466	23	1539
Hubert, Philip G. (See Hall and Hubert.)						
Hubert, Philipp G., New York, N. Y. Fire-proof building	283,345	Aug. 14	1054	296	24	697
Huck, Charles, New Orleans, La. Telegraph and telephone cable	278,968	June 5	433	118	23	2197
Huck, Charles, New Orleans, La. Telephone and telegraph cable	284,425	Sept. 4	326	91	24	958
Huck, Charles, New Orleans, La. Telephone and telegraph cable	284,426	Sept. 4	327	91	24	958
Huckins, Irving W., assignor to J. Smith Woolen Machinery Company, Philadelphia, Pa. Mechanical movement device	277,733	May 15	1492	405	23	1894
Huddleston, Ivison H., New Berne, N. C. Composition of matter for greasing plug-tobacco molds or shapes	281,997	July 24	2065	.....	24	382
Hudelson, David A., Dunreith, Ind. Cutter and fender attachment for plows	274,333	Mar. 20	1403	385	23	1090
Hudson, Arthur, Newton, Mass. Antimony-furnace	286,200	Oct. 9	515	142	25	105
Hudson, C. Columbus, Bridgeport, Conn. Vialing essential oils	272,960	Feb. 27	1750	489	23	767
Hudson, C. Columbus, Bridgeport, Conn. Trunk	272,961	Feb. 27	1751	489	23	767
Hudson, Harry A., Delawanna, N. J., assignor of one-half to J. H. Thorp, Baltimore, Md. Rein-holder	277,734	May 15	1493	405	23	1895
Hudson, John. (See Klugh and Hudson.)						
Hudson, John, Detroit, Mich. Hame-fastener	271,247	Jan. 30	1749	506	23	356
Hudson, John, Detroit, Mich. Line-loop	289,264	Nov. 27	1831	505	25	853
Hudson, John F., Brooklyn, N. Y. Fruit-cleaner	281,512	July 17	1468	403	24	271
Hudson, John W., assignor of one-half to H. W. Norten, Wellington, Ill. Vise	288,438	Nov. 13	823	223	25	659
Hudson, Robert, Gildersome, county of York, England. Dumping-wagon	288,813	Nov. 20	1288	353	25	746
Hudson, Samuel, Leicester, county of Leicester, England. Machine for blocking the quarters of boots	290,234	Dec. 18	1067	299	25	1091
Hudson, Samuel W., Hudsondale, Pa. Lifting-tongs	270,069	Jan. 2	283	84	23	58
Hudson, Samuel W., Hudsondale, Pa. Instrument for tamping the beds of railway-ties	273,363	Mar. 6	163	46	23	862
Hudson, Samuel W., Hudsondale, Pa. Apparatus for transmitting power	278,018	May 22	1840	502	23	1961
Hudson, Samuel W., Hudsondale, Pa. Water-elevator	278,796	June 5	162	47, 48	23	2150
Huebner, Friedrich, Milwaukee, Wis. Weighing-scale	276,693	May 1	904	52	23	1659
Hufeland, Philip, assignor to P. Wiederer, New York, N. Y. Hand-mirror	270,190	Jan. 2	426	123	23	87
Hufeland, Philip, assignor to P. Wiederer, New York, N. Y. Mirror and picture support	274,773	Mar. 27	1968	548	23	1197
Hufeland, Philip, assignor to P. Wiederer, New York, N. Y. Mirror and picture support	274,774	Mar. 27	1969	548	23	1197
Huff, Orison, Goodwin's Mills, Me. Rug-making machine	272,697	Feb. 20	1402	{393 / 394}	23	700
Huff, Peter, New York, N. Y. Platform-wagon	287,541	Oct. 30	2225	{604 / 605}	25	433
Huff, William A. (See Battin, Joseph M., Jr., assignor.)						
Huffer, John H., Jacksonville, Oreg. Apparatus for removing sand-bars	285,487	Sept. 25	1623	455	24	1205
Huffer, John H., assignor of one-fourth to C. C. Beckman, Jacksonville, Oreg. Operating pumps in deep wells and mines	270,671	Jan. 16	1048	300	23	220
Huffer, John H., assignor of one-fourth to C. C. Beckman, Jacksonville, Oreg. Pumping apparatus for deep wells and mines	278,019	May 22	1841	502	23	1962
Huffman, William, Salt City, Kans. Veterinary medicine	279,166	June 12	703	.....	23	2253
Huffsteter, Christopher, Benton Harbor, Mich. Spring-vehicle	284,206	Sept. 4	63	17	24	915
Hufnagel, Harry, Brooklyn, N. Y. Grape-vine hair	279,389	June 12	984	273	23	2299

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Pags.
Huger, William, Newark, N. J. File	274,775	Mar. 27	1970	548	23	1197
Hüger, William, Newark, N. J. Button	260,623	July 3	344	95	24	61
Hughen, John H., Athens, Ga. Nail	269,859	Jan. 2	47	15	23	12
Hughes, Andrew S., Jackson, Iowa. Combined road-scraper, cart, and dump	279,093	June 5	593	161, 162	23	2224
Hughes, Bennington R., assignor of one-half to T. Bradfield, Philadelphia, Pa. Trace-holder	286,701	Oct. 16	1164	313	25	226
Hughes, Charles T., Menlo Park, N. J. Electrical soldering-iron	287,360	Oct. 23	2023	550	25	386
Hughes, Cornelia B. (See Hughes, William W., assignor.)						
Hughes, Gibbard R., and T. Carwardine, Hampstead, county of Middlesex, assignor to Grapho Pen Manufacturing Company, (limited,) London, England. Apparatus for supply of ink to pens	281,998	July 24	2086	572	24	382
Hughes, Henry A., Camden, N. J., assignor of two-thirds to J. P. Scott and G. C. Potts, Philadelphia, Pa. Defecating and clarifying saccharine liquors	281,188	July 10	1051	.....	24	193
Hughes, Henry A., Camden, N. J., assignor of two-thirds to J. P. Scott and G. C. Potts, Philadelphia, Pa. Apparatus for preparing sulphureted cream of lime	290,642	Dec. 18	1609	442	25	1184
Hughes, Hugh H., Fair Haven, Vt. Commode-stool	284,852	Sept. 11	852	240	24	1056
Hughes, Jacob. (See Lippy and Hughes.)						
Hughes, James A., and R. C. Blackwell, assignors of one-third to W. H. Lewis, Henderson County, Ky. Feeder and band-cutter for thrashing-machines	283,710	Aug. 21	1496	422	24	784
Hughes, John W., *et al.* (See Hutchings, Richard J., assignor.)						
Hughes, Joseph D., assignor to June Manufacturing Company, Chicago, Ill. Clutch for fly-wheels for sewing-machines	270,672	Jan. 16	1049	300	23	221
Hughes, Michael, San Francisco, Cal. Plastic composition for tailors' cutting-boards and for other purposes	286,442	Oct. 9	832	.....	25	162
Hughes, Morris W. (See Elsinger, Daniel, assignor.)						
Hughes, William, *et al.* (See Schilling, William, assignor.)						
Hughes, William D., Washington, D. C. Door-lock	286,614	Oct. 16	1051	283	25	207
Hughes, William W., assignor to C. B. Hughes, Urbana, Ohio. Hand-truck	275,386	Apr. 10	685	182	23	1351
Hugo, Cornelius, Seneca, Kans. Sheet-metal-working tool	271,648	Feb. 6	67	18	23	452
Hugo, Joseph, New York, N. Y. Combined table-fan and caster-supporter	281,513	July 17	1469	403	24	271
Hugunin, Robert B., Hartford, Conn. Roller sash-balance	286,931	Oct. 16	1447	397	25	275
Huke, Charles, Chicago, Ill. Work-holding device for metal-slotting machines	281,272	July 17	1166	322	24	219
Hulbert, Sylvester C. (See Shanahan, Winfield S., assignor.)						
Hulen, Louis F., New York, N. Y. Finger-ring and other jewelry	299,912	Dec. 11	679	188	25	1012
Huling, Charles C., assignor to C. Hassenforder, Philadelphia, Pa. Till-alarm	273,066	Feb. 27	1895	532	23	793
Hull, Aaron J. (See Migbell and Hull.)						
Hull, Albert T., assignor to E. D. Fisher, New York, N. Y. Hod-elevator	286,009	Oct. 2	282	79	25	53
Hull, Albert T., assignor to E. D. Fisher, New York, N. Y. Hod-elevator	290,235	Dec. 18	1068	299	25	1091
Hull, Charles B., Detroit, Mich. Porous cover for tobacco-jars	280,477	July 3	179	47	24	33
Hull, Daniel E., Adrian, Mich. Thill-coupling	279,246	June 12	787	216	23	2268
Hull, Davit F., Hagerstown, Md. Vehicle-axle	274,776	Mar. 27	1971	549	23	1197
Hull, Davit F., Hagerstown, Md. Grain-drill and fertilizer-distributer	282,456	July 31	2691	739	24	490
Hull, Duane, Millerton, N. Y. Lock nut and bolt	271,852	Feb. 6	323	89	23	498
Hull, George M., Denver, Mo. Wagon-body	276,821	May 1	371	99	23	1691
Hull, John S., Baltimore, Md. Vapor-burning heating and cooking apparatus	283,246	Aug. 14	927	258	24	672
Hull, John S., Baltimore, Md. Vapor-burning heating and cooking apparatus	283,247	Aug. 14	929	259	24	672
Hull, Lewis O., Fort Wayne, Ind. Pencil-holder	287,400	Oct. 23	2048	557	25	390
Hull, Richard L., Meriden, Conn. Lantern	289,348	Nov. 27	1936	538	25	873
Hull, Thomas P. (See Nellis, Charles S., assignor.)						
Hull, Wayne J. (See Varney and Hull.)						
Hull, Welcome H., and D. L. Smoke, White Hall, Va. Cider-mill	276,413	Apr. 24	1985	550	23	1590
Hull, Wesley, Fort Wayne, Ind. Dumping-wagon	290,686	Dec. 25	1670	460	25	1201
Hull, Wolcott A., New York, N. Y., and F. S. Truesdell, assignors to said Hull and Ansonia Brass and Copper Company, Ansonia, Conn. Lamp-fixture	283,891	Aug. 28	1719	485	24	835
Hull, Wolcott A., New York, N. Y., and R. Hoadley; said Hoadley assignor to Ansonia Brass and Copper Company, Ansonia, Conn. Ornament for shades	286,135	Oct. 2	435	119	25	81
Hullinger, Andrew. (See Wannamaker, Alfred, assignor.)						
Humans, William, Cambridgeport, assignor, by mesne assignments, of one-half to J. H. Collamore, Boston, Mass. Electric annunciator and communicating apparatus	277,286	May 8	962	258	23	1798
Humber, Moses, Calliope, Iowa. Combined collar and hame	286,010	Oct. 2	284	79	25	53
Hume, Edwin J. (See Sloan, Alexander, assignor.)						
Hume, Frank, *et al.* (See Rogers, James H., assignor.)						
Hume, George H., Osawatomie, Kans. Fire-escape	279,762	June 19	1418	393	23	2380
Humiston, Ransom F., Boston, Mass. Compound for preserving food	270,899	Jan. 23	1329	.....	23	279
Hummel, Ferdinand, Sr., and W., Paducah, Ky. Nozzle for oil-cans	277,287	May 8	965	259	23	1799
Hummel, William. (See Hummel, Ferdinand, Sr., and W.)						
Humphrey, Benjamin F., Boston, Mass. Book-sawing machine	285,133	Sept. 18	1205	338, 339	24	1124
Humphrey, Daniel W. G., Chelsea, assignor to S. F. Howard, trustee, Boston, Mass. Button-hole sewing-machine	273,087	Feb. 27	1896	532, 533	23	793
Humphrey, Daniel W. G., Chelsea, assignor to S. F. Howard, trustee, Boston, Mass. Cutting mechanism for button-hole sewing-machines	273,088	Feb. 27	1902	533, 534	23	794
Humphrey, Dennison, Corydon, assignor of one-half to F. A. Sibley, Newport, N. H. Hoe	275,915	Apr. 17	1363	375	23	1475
Humphrey, H. Hubert, *et al.* (See Wood, Alfred, assignor.)						
Humphrey, James, Brooklyn, N. Y. Bronzing-machine	275,214	Apr. 3	428	117	23	1300
Humphreys, Alexander C., Bayonne, N. J., assignor to Pintsch Lighting Company, of New Jersey. Torch and lamp opener	288,439	Nov. 13	824	223	25	659
Humphreys, Arthur C. (See Humphreys, David, assignor.)						
Humphreys, Charles I., Boston, Mass. Belt-fastener	270,673	Jan. 16	1050	300	23	221
Humphreys, David. (See Humphreys, Edward D., assignor.)						
Humphreys, David, Norfolk, Va. Separable button	274,607	Mar. 27	1775	493	23	1162
Humphreys, David, Norfolk, Va. Self-closing hatchway	274,777	Mar. 27	1971	549	23	1197
Humphreys, David, assignor to A. C. Humphreys, Norfolk, Va. Self-closing hatchway	286,136	Oct. 2	436	119	25	81
Humphreys, Edward D., assignor of one-half to D. Humphreys, Cincinnati, Ohio. Earth-scraper	273,538	Mar. 6	382	101	23	899
Humphreys, Martha A. (See Herschel, William D., assignor.)						
Humphries, George C., New York, N. Y. Crimp-protector	272,698	Feb. 20	1404	394	23	700
Humphries, William S. (See Lyle, Hugh F., assignor.)						
Hunger, Theodore, and F. Bullenkamp, Jr., Brooklyn, N. Y. Wagon end-gate	284,853	Sept. 11	853	240	24	1056
Hungerford, Arthur E., Lowville, assignor of one-half to J. L. Atwood, Clayton, N. Y. Sap-spout	286,443	Oct. 9	833	226	25	162
Hungerford, Elias B., Corning, N. Y. Rail-tie	276,414	Apr. 24	1986	550	23	1590
Hungerford, John B., Hillhouse, Ohio. Fence	284,207	Sept. 4	64	18	24	915

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hunley, Booker T. M., Baltimore, Md. Boot or shoe fastener	281,073	July 10	906	253	24	167
Hunnicutt, William H., West Liberty, assignor to J. M. Patterson, Windfall, Ind. Feed-cutter	270,435	Jan. 9	742	218	23	154
Hunscher, Ernest. (See Bowman and Hunscher.)						
Hunsicker, Henry J., Laurelton, Pa. Shutter-worker	281,630	July 17	1614	442	24	294
Hunsicker, Irwin C. (See Nyce and Hunsicker.)						
Hunt, Augustus. (See Evans, Othniel B., assignor.)						
Hunt Brothers & Company. (See Rollins, Edward K., assignor.)						
Hunt, Charles F (See Jackson and White, assignors.)						
Hunt, Charles W., West New Brighton, N. Y. Carrier or sheave-truck for hoisting machinery	282,640	Aug. 7	900	58	24	534
Hunt, Edwin. (See Hunt, Zebulon and E.)						
Hunt, Frank M., Round Oak, Ga. Fly-fan	278,140	May 22	1988	546	23	1988
Hunt, George G., Bristol, Ill. Harvester	281,368	July 17	1286	356	24	240
Hunt, George G., Bristol, assignor of one-half to Plano Manufacturing Company, Plano, Ill. Reel for harvesters	286,304	Oct. 9	665	177	25	131
Hunt, George G., Bristol Station, assignor of one-half to Plano Manufacturing Company, Plano, Ill. Knotting-hook for grain-binders	290,184	Dec. 11	995	281	25	1071
Hunt, George P., San Francisco, Cal., assignor to himself and J. J. Walton, New York, N. Y. Life-preserver	278,240	May 22	2117	583	23	2010
Hunt, George W. (See De Luze, Louis P., assignor.)						
Hunt, George W., Philadelphia, Pa. Device for lighting the steps of cars, &c	278,141	May 22	1989	547	23	1988
Hunt, George W., Muscatine, Iowa. Wheel-plow	285,412	Sept. 25	1536	433	24	1190
Hunt, Henry C., Newark, N. J. Piston-rod packing	283,711	Aug. 21	1497	422	24	784
Hunt, Henry C., assignor of one-half to A. J. Halsey, Newark, N. J. Crayon or lead holder	286,615	Oct. 16	1053	283	25	207
Hunt, Henry C., assignor to himself, A. J. Halsey, Newark, N. J., and T. G. Budington, Brooklyn, N. Y. Governor for steam-engines	270,546	Jan. 9	884	256	23	182
Hunt, James, and B. C. Wilson, Philadelphia, Pa. Apparatus for bottling liquors	270,434	Jan. 9	741	218	23	154
Hunt, John A., assignor of one-half to J. Steiner, Greenville, Ala. Oil-mill box and fittings	277,840	May 15	1621	441	23	1918
Hunt, Joshua, Providence, R. I. Blind-stop	275,492	Apr. 10	924	223	23	1375
Hunt, Nathan, assignor of one-half to Buckeye Engine Company, Salem, Ohio. Eccentric and strap for steam-engines	275,659	Apr. 10	1038	281	23	1411
Hunt, Reuben R., Lexington, Ky. Car-coupling	282,896	Aug. 7	505	142	24	590
Hunt, Robert H. H., San Francisco, assignor of two-thirds to J. B. McChesney and W. A. Knowles, Oakland, Cal. Fulling-mill	280,929	July 10	735	205	24	135
Hunt, Robert W. (See Williams, Samuel T., assignor.)						
Hunt, Theodore. (See Bishop, Richard T., assignor.)						
Hunt, Theodore, St. Louis, Mo. Hand-brake for cars	279,565	June 19	1196	331	23	2341
Hunt, Theodore, St. Louis, Mo. Composition for waterproofing and preserving walls of buildings	282,082	July 31	2199	.....	24	407
Hunt, William L., Port Hope, Ontario, Canada. Telegraphic apparatus	270,674	Jan. 16	1051	300	23	221
Hunt, Zebulon and E., Hudson, N. Y. Stove attachment	284,017	Aug. 28	1898	{531 532}	24	867
Hunter, Alpheus S., Newburg, N. Y., assignor to E. H. Barney and R. Gibson. Skate. (Reissue)	10,293	Mar. 6	589	157	23	935
Hunter, Andrew, Chicago, Ill. Middlings-purifier	278,142	May 22	1990	547	23	1988
Hunter, Andrew, and E. Kuehne, Chicago, Ill. Flour-dressing machine	278,143	May 22	1991	547	23	1988
Hunter, Charles W., Snowville, Va. Egg-carrier	281,696	July 24	1708	464	24	316
Hunter, Edwin, assignor of one-half to A. Wolf, Allentown, and D. L. Hamaker, East Hempfield, Pa. Window-screen	288,943	Nov. 20	1445	398	25	776
Hunter, George D., Terre Haute, Ind. Spark-arrester	285,899	Oct. 2	153	43	25	30
Hunter, George D., Terre Haute, Ind. Spark-extinguisher	285,900	Oct. 2	156	44	25	31
Hunter, George W., Philadelphia, Pa. Revolving-cylinder engine	280,041	June 26	1770	497	23	2447
Hunter, George W., assignor of two-thirds to A. R. Bockius and A. Rex, Philadelphia, Pa. Rotary pump	273,737	Mar. 13	642	171	23	952
Hunter, Griffith, assignor to S. A. Hunter, Chicago, Ill. Apparatus for hoisting and laying stone	270,675	Jan. 16	1052	301	23	221
Hunter, James B., Ashley, Ill. Motor	286,702	Oct. 16	1164	313	25	226
Hunter, James H., East Corinth, Vt. Fruit-drier	287,542	Oct. 30	2227	605	25	434
Hunter, John E., Mechanicsburg, Ohio. Animal-poke	281,881	July 24	1949	532	24	358
Hunter, John M., Morristown, N. J. Safety-pocket	274,122	Mar. 20	1132	312	23	1043
Hunter, Monroe, Attica, Ind. Car-coupling	290,330	Dec. 18	1193	334	25	1113
Hunter, Rudolph M., Philadelphia, Pa. Printing-press	271,070	Jan. 23	1537	443	23	312
Hunter, Rudolph M., Philadelphia, Pa. Valve-gear	272,053	Feb. 13	585	158	23	553
Hunter, Rudolph M., Philadelphia, Pa. Electric underground conductor	272,441	Feb. 20	1078	304	23	643
Hunter, Rudolph M., Philadelphia, Pa. Grain-binder	273,089	Feb. 27	1906	{534 535}	23	794
Hunter, Rudolph M., Philadelphia, Pa. Underground conductor	275,387	Apr. 10	688	182	23	1352
Hunter, Rudolph M., Philadelphia, Pa. Railway telegraphic signal	277,569	May 15	1307	351	23	1862
Hunter, Rudolph M., and J. T. Stewart, Philadelphia, Pa. Process of and apparatus for packing bran	280,478	July 3	180	48	24	33
Hunter, S. A. (See Hunter, Griffith, assignor.)						
Huntington, Alfred K., Hampstead, and W. E. Koch, Kensington, county of Middlesex, England. Extracting precious metals from ores	281,074	July 10	907	253	24	168
Huntington, Alfred K., Hampstead, and W. E. Koch, Kensington, county of Middlesex, England. Amalgamating apparatus	281,629	July 17	1613	441	24	294
Huntington, Frank A., San Francisco, Cal. Crushing-mill	277,134	May 8	795	{208 209}	23	1768
Huntington, George F., Philadelphia, Pa. Gas-burner	283,608	Aug. 21	1370	383	24	760
Huntington, Joseph D., Chicago, Ill. Tool for facing emery-wheels	288,638	Nov. 20	1069	294	25	709
Huntington, Joseph D., Chicago, Ill. Obtaining rotating centers of emery and polishing wheels	290,056	Dec. 11	848	241	25	1043
Huntington, Lawson G., New York, N. Y. Switch and signal lantern	280,624	July 3	345	96	24	61
Huntington, Lawson G., New York, N. Y., assignor of one-half to T. B. Osborne, Plainfield, N. J. Lantern	276,182	Apr. 24	1687	466	23	1539
Huntington, Lawson G., assignor of one-half to A. M. Eagleson, New York, N. Y. Signal-lantern. (Reissue)	10,408	Nov. 20	1472	406	25	781
Huntington, Thomas S., New York, N. Y., assignor to New Home Sewing Machine Company, Orange, Mass. Sewing-machine	276 537	Apr. 24	2139	595	23	1616
Huntley, Byron E. (See Vunk, George W., assignor.)						
Huntley, Rollin D., assignor of one-half to A. O. Whittemore, Havana, N. Y. Door-knob	273,685	Mar. 6	574	152	23	932
Huntress, John H., assignor of two-thirds to C. Dutton and H. Merrill, Janesville, Wis. Harness-buckle	271,465	Jan. 30	2045	588	23	409

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hunzeker, Rudolph S., assignor of one-half to W. A., R. H. Herron, and W. J. Patterson, Pittsburg, Pa. Spring and brace	284,636	Sept. 11	583	164	24	1009
Hunzeker, Rudolph S., assignor of one-half to W. A. Herron, W. J. Patterson, and R. H. Herron, Pittsburg, Pa. Die for making carriage-springs	285,623	Sept. 25	1788	508	24	1237
Hunzinger, George, New York, N. Y. Applying straw braid to furniture and cabinet-ware	273,847	Mar. 13	785	213	23	977
Hunzinger, Jacob R., Olathe, Kans. Vehicle-spring	275,769	Apr. 10	1180	324	23	1436
Hurd, Alonzo A. (See Bailey and Hurd.)						
Hurd, Edward B., Bridgeport, Conn. Starching-machine	285,901	Oct. 2	158	44	25	31
Hurd, George W., Meadville, Mo. Neck-yoke	287,834	Nov. 6	54	16	25	517
Hurd, Lorenzo D., Candor, assignor of one-third to J. C. Sampson, Elmira, N. Y. Running-gear for wagons	283,712	Aug. 21	1498	422, 423	24	785
Hurd, William F., *et al.* (See Thatcher and Johnson, assignors.)						
Huré, François, Paris, France. Lasting and tacking machine	282,524	Aug. 7	60	18	24	510
Hurel, Armand M., Theillement, France. Bottle for milk and other liquids	288,238	Nov. 13	557	155	25	613
Hurlbut, Daniel N., Chicago, Ill. Underground line	276,415	Apr. 24	1967	550	23	1590
Hurlbut, Ella C., New York, N. Y. Corset	270,222	Jan. 9	472	138	23	103
Hurlbut Manufacturing Company. (See Vanorman, Oliver, assignor.)						
Hurley, Joseph G. (See Adams, Azro H., assignor.)						
Hurley, Michael, Chicago, Ill. Window-cleaner	274,314	Mar. 20	1404	385	23	1091
Hurley, Susan A., Washington, D. C. Pulley and attachment for window-shade rollers	272,882	Feb. 27	1667	465	23	753
Hurly, Michael, Quebec, Quebec, Canada. Heating railway-cars	289,265	Nov. 27	1839	505	25	853
Hurst, Jakob. (See Hurst, William and J.)						
Hurst, John D., Salem, Oreg. Bolting-reel	271,853	Feb. 6	324	89	23	498
Hurst, William and J., Syracuse, N. Y. Churn	273,281	Mar. 6	42	13	23	842
Hurter, Ferdinand. (See Carey, Gaskell, and Hurter.)						
Hurter, Ferdinand. (See Gaskell and Hurter.)						
Hurtubes, Benjamin, Rahway, N. J. Window-sash	276,416	Apr. 24	1969	551	23	1590
Husband, William P., Hartford, Conn. Spinning-ring	273,090	Feb. 27	1913	536	23	796
Huse, Warren D. (See White and Huse.)						
Huse, Warren D., Laconia, assignor to O. Twombley, Lake Village, N. H., and T. S. Nowell, Boston, Mass. Knitting-machine	271,071	Jan. 23	1539	443, 444	23	313
Hussey, Charles A., assignor to Hussey Electric Company, New York, N. Y. Electric lamp	269,937	Jan. 2	136	40	23	98
Hussey, Charles A., assignor to Hussey Electric Company, New York, N. Y. Electric-arc lamp	269,938	Jan. 2	137	41	23	98
Hussey, Charles A., assignor to Hussey Electric Company, New York, N. Y. Electric-arc lamp	269,939	Jan. 2	139	41	23	99
Hussey, Charles A., assignor to Hussey Electric Company, New York, N. Y. Electric-arc lamp	270,676	Jan. 16	1053	301	23	221
Hussey Electric Company. (See Hussey, Charles A., assignor.)						
Hussey, John J., Bordeaux, S. C., assignor to himself and W. W. Tinsley, Huntsville, Tex. Sulky-plow	284,558	Sept. 4	483	136	24	986
Hussey, Levi, New York, N. Y., assignor of one-half to G. W. Donaldson, Cranford, N. J. Apparatus for reheating exhaust-steam and heating air	276,568	May 1	57	16	23	1638
Hussey, Levi, New York, N. Y., assignor of one-half to G. W. Donaldson, Cranford, N. J. Apparatus for reheating exhaust-steam	279,247	June 12	787	217	23	2268
Husted, Jethro B., Vergennes, Vt. Machine for assorting horseshoe-nails	277,488	May 15	1207	334	23	1846
Huston, Harvey E., Monticello, Ill. Mechanical telephone	285,269	Sept. 18	1361	384	24	1154
Huston, William. (See Wickersham and Huston.)						
Huston, William, *et al.* (See Mills, Isaac N., assignor.)						
Huston, William, assignor of one-half to H. N. Wickersham, Wilmington, Del. Ejector	284,962	Sept. 11	983	277	24	1080
Hutchings, Richard J., Swansea, county of Glamorgan, England. Apparatus for pickling and swilling metal plates and other wares	282,083	July 31	2200	604, 605	24	407
Hutchings, Richard J., assignor of two-thirds to W. Trick, Swansea, county of Glamorgan, and J. W. Hughes, London, England. Apparatus for pickling and swilling metal plates and other wares	282,084	July 31	2204	606, 606	24	407
Hutchins, Abner B., Brooklyn, assignor to J. L. Sharp, New York, N. Y. Hydrocarbon-stove. (Reissue)	10,273	Jan. 16	1300	374	23	268
Hutchins, Alphonso E. (See Bassett and Hutchins.)						
Hutchins, Charles W., Springfield, Mass. Lock bottle stand	274,608	Mar. 27	1776	493	23	1162
Hutchins, Henry H., Fennville, Mich. Wire-stretcher	274,198	Mar. 20	1221	336	23	1060
Hutchins, Horace H., Maquoketa, Iowa. Roofing compound	270,436	Jan. 9	743	.....	23	154
Hutchins, William H., assignor of one-half to A. Hubbard, Baltimore, Md. Sectional steam-boiler	288,178	Nov. 6	477	132	25	590
Hutchins, William J., assignor of one-half to I. B. Curtis, Joliet, Ill. Check-rower attachment for corn-planters	269,940	Jan. 2	140	41, 42	23	29
Hutchinson, Charles G., Chicago, Ill. Bottle-stopper	285,488	Sept. 25	1624	456	24	1205
Hutchinson, Elias S., Washington, D. C. Setting for hot-air furnaces	273,993	Mar. 13	958	264	23	1006
Hutchinson, Elias S., Washington, D. C. Water-closet	280,180	June 26	1916	539	23	2474
Hutchinson, Henry E., Brooklyn, N. Y. Match-box	278,555	May 29	2536	692	23	2092
Hutchinson, Joseph. (See Smith and Hutchinson.)						
Hutchinson, Oliver S., New Lenox, Mass. Carriage-feeding device for saw-mills	286,201	Oct. 9	516	142	25	106
Hutchinson, Robert H., New York, N. Y. Shirt	286,011	Oct. 2	284	80	25	54
Hutchinson, Thomas O., Salem, assignor of one-half to A. C. Gibbs, Portland, Oreg. Hydraulic jack	280,315	June 26	2090	588	23	2504
Hutchinson, William F., Lynn, Mass. Shaft-casing	276,589	May 1	59	17	23	1638
Huth, Charles A., Maynard, Ohio. Car-coupling	279,763	June 19	1419	396	23	2380
Hutson, Ezra, and E. Squires, Portland, Oreg. Driving-cart	271,710	Feb. 6	147	41	23	466
Hutson, William L., assignor of two-thirds to N. R. Harris and T. A. Brooks, St. Lawrence, N. C. Wagon-brake	285,624	Sept. 25	1789	508	24	1237
Huttinger, Ambrose, Liverpool, Ohio. Stove-pipe fastener	275,660	Apr. 10	1039	291	23	1412
Hutton, David B., London, England. Instrument for ascertaining the pitch of screw-propellers	284,427	Sept. 4	328	91	24	958
Hutton, George H., Baltimore, Md. Thill-coupling	282,457	July 31	2693	739	24	490
Huyatt, Miles C. (See Smith, Wright D., assignor.)						
Huyck, Francis P., assignor of one-half to J. E. Hall, Swanton, Ohio. Reversible friction-clutch	275,388	Apr. 10	690	183	23	1352
Huyler, John H. (See Gamblee and Haring, assignors.)						
Hyam, Benjamin D., Washington, D. C. Machine for expeditiously tanning hides, skins, &c.	290,885	Dec. 25	1922	531, 533	25	1947
Hyam, Benjamin D., Washington, D. C., assignor of one-half to W. H. Howell, New York, N. Y. Machine for tanning leather	274,336	Mar. 20	1405	385, 386, 387	23	1091
Hyatt, Ely E., Salona, assignor to Enterprise Manufacturing Company, Troy, Pa. Crank-coupling	289,266	Nov. 27	1833	506	25	853

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hyatt, Isaiah S., Morristown, N. J., assignor to Celluloid Manufacturing Company, New York, N. Y. Manufacturing sheets of celluloid and other plastic material	275,215	Apr. 3	429	.....	23	1300
Hyatt, Isaiah S., Morristown, N. J., assignor to Celluloid Manufacturing Company, New York, N. Y. Apparatus for molding celluloid and analogous plastic material	275,216	Apr. 3	430	117, 118	23	1300
Hyatt, Isaiah S., Morristown, N. J., assignor to Celluloid Manufacturing Company, New York, N. Y. Manufacture of celluloid collars, cuffs, &c	276,248	Apr. 24	1766	492	23	1553
Hyatt, John W., Newark, N. J. Filtering agent	272,442	Feb. 20	1079	304	23	644
Hyatt, John W., Newark, N. J. Filter	273,539	Mar. 6	383	102	23	899
Hyatt, John W., Newark, N. J. Filter	273,540	Mar. 6	386	102	23	900
Hyatt, John W., Newark, N. J. Filter	273,541	Mar. 6	387	103	23	900
Hyatt, John W., Newark, N. J. Filter	273,542	Mar. 6	388	103, 104	23	900
Hyatt, John W., Newark, N. J. Filter	273,543	Mar. 6	391	105	23	901
Hyatt, John W., Newark, N. J. Machine for perforating sheet metal	283,488	Aug. 21	1239	348	24	735
Hyatt, John W., Newark, N. J. Filtering agent	283,489	Aug. 21	1240	348	24	735
Hyatt, John W., Newark, N. J. Differential-pressure gage	283,490	Aug. 21	1240	348	24	736
Hyatt, John W., Newark, N. J., assignor to Celluloid Manufacturing Company, New York, N. Y. Press or mold for coating articles with celluloid, &c	280,745	July 3	494	139, 140	24	88
Hyatt, John W., Newark, N. J., and C. S. Lockwood, assignors to Bonsilate Company, (limited,) Albany, N. Y. Securing glass to a backing	286,541	Oct. 9	950	256	25	183
Hyatt, John W., and F. V. Pool, Newark, N. J. Manufacture of pyroxyline	274,335	Mar. 20	1405	.....	23	1091
Hyatt, Thaddeus, New York, N. Y. Illuminating vault-cover or grating-tile and surfaces made of the same	272,383	Feb. 13	998	278, 279, 280	23	624
Hyatt, Thaddeus, New York, N. Y. Illuminating vault-cover or grating-tile and surfaces made of the same	272,551	Feb. 20	1213	339, 340	23	667
Hyatt, Thaddeus, New York, N. Y. Sky or vault light roof and roof-pavement	284,559	Sept. 4	484	136	24	986
Hyatt, Thaddeus, New York, N. Y. Vault or combination skylight reflector-roof	284,963	Sept. 11	984	277	24	1080
Hyatt, Thaddeus, New York, N. Y. Vault-light roof and sidewalk for basements and rear extensions of buildings	285,358	Sept. 18	1464	412	24	1171
Hyatt, Thaddeus, New York, N. Y. Combination daylight-reflector	285,625	Sept. 25	1790	509	24	1237
Hyatt, Thaddeus, New York, N. Y. Illuminating vault-cover or grating-tile, &c	286,012	Oct. 2	285	80	25	54
Hyatt, Thaddeus, New York, N. Y. Vault-light roof and sidewalk for constructing basements, &c., to buildings	286,137	Oct. 2	437	119	25	81
Hyatt, Thaddeus, New York, N. Y. Illuminating vault-cover or grating-tile and surface made of the same	286,542	Oct. 9	951	256	25	183
Hyatt, Thaddeus, New York, N. Y. Vault-cover or illuminating grating-tile and surface made thereof	288,571	Nov. 13	981	270	25	687
Hyatt, Thaddeus, New York, N. Y. Vault-covering or illuminating-grating and surface made therefrom	288,572	Nov. 13	982	270, 271	25	687
Hyatt, Thaddeus, New York, N. Y. Illuminating sidewalk or roof to a continuous vault or gallery, &c	289,537	Dec. 4	208	58	25	922
Hyatt, Thaddeus, New York, N. Y. Illuminating grating-tile and constructions made therefrom	289,538	Dec. 4	208	58	25	923
Hyatt, Thaddeus, New York, N. Y. Concrete floor, roof, &c	290,886	Dec. 25	1927	532	25	1248
Hyde, Andrew, Hatfield, Mass. Fire-arm	273,282	Mar. 6	43	13	23	842
Hyde, Andrew, Hatfield, Mass. Wrench	286,543	Oct. 9	953	256	25	183
Hyde, Charles F. (See Brown and Hyde.)						
Hyde, Charles F., Ottawa, Kans. Fence-wire with spur attachment	277,288	May 8	966	259	23	1790
Hyde & Co. (See Linton, Charles B., assignor.)						
Hyde, David B. (See Tavener, Robert W., assignor.)						
Hyde, David B., Springfield, Mass. Grinding-wheel frame	285,626	Sept. 25	1792	510	24	1237
Hyde, Elwin R., and A. Vallentine, Springfield, Mass.; said Vallentine assignor to said Hyde. Grindstone-hood	279,248	June 12	789	217	23	2268
Hyde, Francis. (See Horner and Hyde.)						
Hyde, J. Burrows. (See Waring and Hyde.) (Reissue.)						
Hyde, J. Burrows, *et al.* (See Cameron, James W., assignor.)						
Hyde, J. Burrows, New York, N. Y. Feeding pulverized fuel	274,778	Mar. 27	1972	549	23	1198
Hyde, J. Burrows, New York, N. Y. Artificial fuel	274,779	Mar. 27	1974	.....	23	1198
Hyde, J. Burrows, New York, N. Y. Underground electric conductor or cable	277,036	May 8	660	172	23	1745
Hyde, J. Burrows, New York, N. Y. Machine for treating peat	279,390	June 12	984	274	23	2299
Hyde, J. Burrows, New York, N. Y. Insulating compound for electrical conductors and apparatus for compounding and applying the same	281,999	July 24	2087	572	24	382
Hyde, J. Burrows, New York, N. Y. Underground electric conductor	284,854	Sept. 11	854	240	24	1056
Hyde, J. Burrows, New York, N. Y. Apparatus for constructing electric conductors	284,855	Sept. 11	856	241	24	1056
Hyde, J. Burrows, New York, N. Y. Rotating furnace	285,627	Sept. 25	1792	510	24	1237
Hyde, J. Burrows, New York, N. Y. Apparatus for preparing and treating peat for fuel and other purposes	287,679	Oct. 30	2417	652	25	470
Hyde, J. Burrows, New York, N. Y. Insulating compound for electrical conductors and apparatus for compounding the same. (Reissue)	10,403	Nov. 6	503	139	25	595
Hyde, J. Burrows, New York, N. Y. Apparatus for applying insulating material to electric wires. (Reissue)	10,404	Nov. 6	504	139	25	595
Hyde, J. Burrows, New York, N. Y. Insulating compound for electric conductors	290,057	Dec. 11	850	.....	25	1043
Hyde, J. Burrows, New York, N. Y. Insulating compound for electric conductors and compounding the same	290,058	Dec. 11	850	.....	25	1043
Hyde, J. Burrows, New York, N. Y. Submarine electric conductor	290,881	Dec. 25	1918	530	25	1246
Hyde, James P., New York, N. Y. Preserving the seal in traps of water-closets, urinals, wash-basins, sinks, &c	288,573	Nov. 13	985	271, 272	25	688
Hyde, Kirkley, *et al.* (See Ladd, Austin S., assignor.)						
Hyde, Klime & Co. (See Carman, Hiram, assignor.)						
Hyde, Philip, *et al.* (See Brunell, Mineheart, assignor.)						
Hyde, Thomas, Albany, N. Y. Water-closet	279,566	June 19	1197	331	23	2341
Hyde, Walter, Oakland, Cal. Swing	277,902	May 22	1698	463	23	1938
Hydraulic Press Brick Company. (See Graves, Willis N., assignor.)						
Hydro-Carbon Burner and Fuel Company. (See Blumenberg and Whiting, assignors.)						
Hydro Pneumatic Pump Company. (See Moore, Charles, assignor.) (Reissue.)						
Hyle, Henry A., Redwood, N. Y. Mower and reaper	273,994	Mar. 13	959	264, 265	23	1006
Hyman, Jesse W., Englewood, N. J. Coloring photographs	273,995	Mar. 13	963	.....	23	1007
Hymers, Christopher, St. Louis, Mo. Self-adjusting fish-shaped fish-hook holder	273,996	Mar. 13	963	265	23	1007
Hyndman, Samuel E., Cincinnati, Ohio. Fence-post	289,349	Nov. 27	1937	538	25	873
Hynes, Michael, Montreal, Quebec, Canada. Counter-machine	285,134	Sept. 18	1207	339	24	1124
Hynson, Augustus R., St. Louis, Mo. Barrel-heater	284,018	Aug. 28	1899	532	24	867
Hyre, Clinton D., assignor of one-half to H. L. Hyre, Lexington, Ill. Eaves-trough hanger	283,892	Aug. 28	1720	485	24	835

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hyre, Harrison L. (See Hyre, Clinton D., assignor.)						
Hyssong, Charles H., Altoona, Pa. Piston-valve	284,964	Sept. 11	985	277	24	1080
Iddings, Frank A., Warren, Ohio. Die for welding links	271,466	Jan. 30	2046	589	23	409
Iddings, Henry A., Warren, Ohio. Die for forming links	286,013	Oct. 2	288	81	25	54
Iddings, Henry A., Warren, Ohio. Machine for forming and cutting links	290,773	Dec. 25	1787	493 494	25	1223
Ide, Albert L., Springfield, Ill. Support for electric lamps	278,797	June 5	164	48	23	2150
Ide, Bruce & Co., Geo. P. (See Ide, James M., assignor.)						
Ide, Bruce & Co., Geo. P. (See Weatherly, William L., assignor.)						
Ide, Ferdinand F., Springfield, Ill. Scale for weighing diamonds, balance-screws of watches, &c	272,699	Feb. 20	1405	394	23	701
Ide, James M., assignor to G. P. Ide, Bruce & Co., Troy, N. Y. Collar	279,567	June 19	1196	331	23	2341
Idell, Frank E. (See Knowles and Idell.)						
Ignatius, Charles, Cincinnati, Ohio. Desk	287,543	Oct. 30	2228	605	25	434
Illig, Frank J. (See Illig, Peter J. and F. J.)						
Illig, Peter J. and F. J., Buffalo, N. Y. Double-seaming machine	282,525	Aug. 7	63	18	24	511
Illingworth, James A., Springfield, Mass. Upholstery-brush	275,827	Apr. 17	1258	346	23	1456
Illinois Iron & Bolt Company. (See Lane, Rufus, assignor.)						
Illinois Iron & Bolt Company. (See Southworth, Albert H., assignor.)						
Imboden, Adam H. (See Cash, Arthur W., assignor.)						
Imler, John, Zionsville, Ind. Combined rotary disk-harrow and seed-sower	282,596	Aug. 7	63	19	24	511
Imperial Electric Light Company. (See Perkins, Charles G., assignor.)						
Indestructible Safe and Fire Proof Company. (See Fowler, Nathaniel C., assignor.)						
Indestructible Water Pipe Company. (See Camp, Mortimer M., assignor.)						
Indianapolis Cabinet Company of Indiana. (See Recker, John P., assignor.)						
Indianapolis Machine and Bolt Works. (See Babcock, Erskine L., assignor.)						
Indianapolis Machine and Bolt Works. (See Fulton and Olsen, assignors.)						
Indianapolis Machine and Bolt Works. (See Olsen, Olaf R., assignor.)						
Indicator Lock Company. (See Yoe, Philip, assignor.)						
Ingalls, Allen, Cooperstown, N. Y. Building block or brick	272,883	Feb. 27	1667	466	23	753
Ingalls, Enoch L. (See Avery, Asher W., assignor.)						
Ingalls, George M. (See Andrews, Edward W., assignor.)						
Ingalls, Joshua K., Glenora, N. Y. Illuminating-roof, &c	271,854	Feb. 6	325	90	23	498
Ingalls, William A., assignor of one-half to G. E. Barstow, A. and D. T. Lyman, Providence, R. I. Safety-guard for elevators	289,350	Nov. 27	1938	538	25	873
Ingersoll, James E. (See Heston, William, assignor.)						
Ingersoll, Monroe, assignor of one-half to F. Robinins, Indianapolis, Ind. Combined swing and chair	289,267	Nov. 27	1834	506	25	854
Ingersoll, Robert H., New York, N. Y. Toy block	272,443	Feb. 20	1079	304	23	644
Ingersoll, William B., Chicago, Ill. Horse-power	279,764	June 19	1490	397	23	2380
Ingham, John F., Allegheny, assignor to himself and J. H. Noble, Verona, Pa. Seal-lock	289,417	Dec. 4	53	15, 16	25	896
Ingling, Samuel, Dowagiac, Mich. Heating-stove	289,840	Dec. 11	588	163	25	996
Inglis, Andrew, A. J., and C., Horicon, Wis. Wind-wheel	270,591	Jan. 16	945	273	23	202
Inglis, Andrew J. (See Inglis, Andrew, A. J., and C.)						
Inglis, Charles. (See Inglis, Andrew, A. J., and C.)						
Inglis, Charles A., assignor of one-fourth to H. Rohrer and J. Fetter, Lancaster, Pa. Road-guide	270,223	Jan. 9	473	139	23	103
Ingraham, Elias. (See Markley and Ingraham.)						
Ingraham, William S., Waukegan, Ill. Sickle-grinder	270,070	Jan. 2	284	84	23	56
Ingram, Edwin. (See Cross, George W., assignor.)						
Ingram, Edwin, Philadelphia, Pa., assignor to National Automatic Car Coupler Company, of New Jersey. Car-coupling	286,444	Oct. 9	833	226	25	162
Ingram, George A., Plymouth, Pa. Artificial limb	288,239	Nov. 13	558	155	25	614
Ingram, Milo E., assignor of two-thirds to J. A. Gilleland and C. Steffen, Jr., Allegheny, Pa. Slate and blackboard eraser	287,381	Oct. 23	2024	550	25	386
Ingram, William B., assignor to himself and W. J. Cox, Lilesville, N. C. Cotton-press	271,467	Jan. 30	2047	589	23	409
Inman, Horace, Amsterdam, N. Y. Paper-box covering and trimming machine. (Reissue)	10,286	Feb. 13	1020	285	23	628
Innes, James M. (See Ufford, Stephen R. S., assignor.)						
Innis, William J., Oil City, Pa. Wheel and pulley	283,397	Aug. 21	1224	318	24	715
Innis, William J., Oil City, Pa. Pulley	285,816	Oct. 2	42	14	25	9
Innis, William J., Oil City, Pa. Pulley	285,817	Oct. 2	43	14	25	10
Insull, Samuel. (See Dyer and Seely, assignors.)						
International Fibre and Juice Extracting Company of New York. (See Sanford, Gelston, assignor.)						
International Fire Escape Company. (See Bixby, Arthur, assignor.)						
International Pavement Company. (See Cutter, William T., assignor.)						
International Transportation Company. (See Eiseman, Solomon M., assignor.)						
International Vapor Fuel and Carbon Iron and Manufacturing Company. (See Hayden, Henry F., assignor.)						
Inward, Charles, Osage, Iowa. Latch	288,639	Nov. 20	1071	294	25	709
Irelan, William, Jr., *et al.* (See Lau, Albert H., assignor.)						
Ireland, George H., Springfield, Mass. Combined toy and game	284,965	Sept. 11	986	277 278	24	1080
Ireland, Howard, Camden, N. J. Food-holder for bird-cages	270,071	Jan. 2	285	84	23	58
Ireland, Joseph, Cleveland, Ohio. Oral annunciator	280,860	Jan. 2	47	15	23	12
Ireland, Joseph, Cleveland, Ohio. Oral annunciator	280,930	July 10	738	205 206	24	136
Ireland, Thomas S. (See Morris, John B., assignor.)						
Ireton, William, assignor of one-half to F. Weckerly and S. E. Whitelock, Camden, N. J. Manufacture of pipe	273,738	Mar. 13	643	171	23	952
Ireton, William, and S. E. Whitelock, Camden, N. J. Molding apparatus for the manufacture of pipe	278,663	May 29	2667	730	23	2114
Irish, C. J., *et al.* (See Irish, Judah W., assignor.)						
Irish, Charles B., Grand Isle, Vt. Fruit-evaporator	273,091	Feb. 27	1913	536	23	796
Irish, Judah W., assignor of one-half to C. J. Irish and H. M. Cox, Kellogg, Iowa. Milk-cooler	276,590	May 1	60	17	23	1638
Iron Clad Manufacturing Company. (See Milligan, Henry C., assignor.)						
Iron Clad Manufacturing Company. (See Reynolds, Henry S., assignor.)						
Iron Clad Manufacturing Company. (See Shepard, Henry W., assignor.)						
Ironmonger, Francis M., Brooklyn, N. Y. Bleaching edible nuts	275,217	Apr. 3	432	.....	23	1300
Irvine, James. (See Kohnle and Hamilton, assignors.)						
Irvine, John J., Chattanooga, Tenn. Pulley	273,544	Mar. 6	393	105	23	901
Irvine, William F., Willis, Tex. Revolving boot and shoe box	270,437	Jan. 9	744	218	23	154

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Irvine, William M., and J. J. Waddill, Montgomery, Ala. Nut-lock	277,735	May 15	1494	405	23	1895
Irving, George, Jr., Bridgeport, Conn. Boot-blacking frame	273,545	Mar. 6	394	105	23	901
Irwin, George L., assignor to himself and R. L. Orr, Allegheny, Pa. Drier for white lead and other materials	288,574	Nov. 13	987	272	25	688
Irwin, Hall M., Tyler, Tex. Sawing-machine	288,440	Nov. 13	846	224	25	659
Irwin, John W., assignor to P. Weyhrich & Co., Pekin, Ill. Harvester	273,686	Mar. 6	575	153	23	932
Irwin, Joseph I., *et al.* (See Reeves, Alfred B., assignor.)						
Irwin, Joseph I., *et al.* (See Reeves, Marshal T. and A. B., assignors.)						
Irwin, William A., Webster Grove, Mo. Combined wrench and stretcher	285,902	Oct. 2	159	44	25	31
Irwin, William J., assignor to himself and J. B. Lisle, Springfield, Ohio. Cotton-chopper	274,780	Mar. 27	1976	550	23	1198
Isaac, Robert R., Trenton, N. Y. Machine for sharpening mowing-machine knives	290,236	Dec. 18	1070	299	25	1092
Isaacs, William D., Newark, N. J. Umbrella or parasol	269,861	Jan. 2	49	15	23	12
Isard, Franklin, and W. S. Leiter, Seward, Nebr.; said Isard assignor to said Leiter. Window-screen	272,884	Feb. 27	1668	466	23	754
Isard, Robert S., Hudson, Ohio. Fire-escape	291,014	Dec. 25	2102	579	25	1275
Isbell, Robert H., New York, N. Y. Button	278,556	May 29	2538	692	23	2092
Isberg, Hans A., Long Island City, N. Y. Chair	283,111	Aug. 14	762	215	24	643
Isenberg, B. F., *et al.* (See Stephens, Abner L., assignor.)						
Isenhart, George. (See Rickel, Tremont W., assignor.)						
Isett, Frederick S. (See Merriam, Charles R., assignor.)						
Isherwood, Thomas, Westerly, R. I. Weft-stop mechanism for looms	288,814	Nov. 20	1290	353	25	747
Iske, Albert. (See Iske, Anthony and A.)						
Iske, Anthony, assignor to A. D. Smith, Lancaster, Pa. Clothes-drier	277,736	May 15	1494	406	23	1895
Iske, Anthony, assignor of one-half to W. L. Nauman, Lancaster, Pa. Stock-releasing device	283,796	Aug. 28	1600	452	24	815
Iske, Anthony and A., Lancaster, Pa. Oscillating motor	271,639	Feb. 6	68	19	23	452
Iske, Anthony and A., assignors of one-third to R. M. Slaymaker, Lancaster, Pa. Fire-ladder	272,054	Feb. 13	586	158	23	553
Iske, Anthony and A., Lancaster, assignors of one-half to M. V. B. Steinmetz, Philadelphia, Pa. Fire-alarm	287,439	Oct. 30	2099	570	25	408
Isley, Henry. (See Hicks and Isley.)						
Isley, William H., Jersey City, N. J. Fire-escape	284,740	Sept. 11	718	201	24	1032
Isley, William H., assignor of one-half to F. A. Hoeland, Jersey City, N. J. Awning	284,741	Sept. 11	721	201	24	1032
Israel, Alexander C. (See Leet and Israel.)						
Israel, M., *et al.* (See Kraker, Michael, assignor.)						
Ithaca Calendar Clock Company. (See Cheesbrough, Frederick, assignor.)						
Itsell, Stephen W., *et al.* (See Weod, Alfred, assignor.)						
Ittner, Anthony, St. Louis, Mo. Lubricator	284,303	Sept. 4	182	51	24	935
Ittner, Anthony, St. Louis, Mo. Mold and die for brick-making machines	288,240	Nov. 13	559	156	25	614
Ivens, Edmund M., New Orleans, La. Cotton-press	284,208	Sept. 4	65	18	24	916
Ivers & Pond Piano Company. (See Ivers, William H., assignor.)						
Ivers, William H., Dedham, assignor to Ivers & Pond Piano Company, Boston, Mass. Safety-gate for elevators	272,552	Feb. 20	1215	340	23	667
Ives, Blakeslee & Co. (See Williams, Edward G., assignor.)						
Ives, Charles, Kirkland, N. Y. Fire-escape	287,764	Oct. 30	2542	684	25	492
Ives, Edward R., Bridgeport, Conn., assignor to himself, C. Blakeslee, and E. G. Williams, Brooklyn, N. Y. Toy	290,185	Dec. 11	997	281	25	1071
Ives, Henry, assignor of one-half to H. Easton, Batavia, N. Y. Cultivator	290,059	Dec. 11	851	242	25	1043
Ives, Joseph S., New York, N. Y. Plate-printing press	276,591	May 1	61	17	23	1638
Ives, Samuel B., *et al.* (See Moulton, Fordyce M., assignor.)						
Ives, William A., New Haven, Conn. Bit-stock	270,072	Jan. 2	286	85	23	58
Ivett, Daniel R., Fort Fred Steele, Wyoming Ter. Sled-propeller	282,897	Aug. 7	506	142	24	590
Ivey, David. (See Bugg and Ivey.)						
Ivey, Edwin, and A. Uren, Seattle, Wash. Ter. Can-holder	283,112	Aug. 14	764	215	24	643
Ivins, Ellwood, and D. Snyder; said Snyder assignor to said Ivins; said Ivins assignor of one-third to O. H. Searle, Philadelphia, Pa. Button-fastening	290,774	Dec. 25	1789	494	25	1224
Iwan, Henry and L., Streator, Ill. Hoe	287,027	Oct. 23	1581	435	25	305
Iwan, Henry and L., Streator, Ill. Blasting-tool	288,706	Nov. 20	1157	318	25	723
Iwan, Louis. (See Iwan, Henry and L.)						
Jablochkoff, Paul, Paris, France. Electric battery	273,739	Mar. 13	644	172	23	953
Jaboeuf, Marion R., New York, N. Y. Window-cleaning guard	290,431	Dec. 18	1333	369	25	1137
Jackman, Lemuel N., Elgin, Ill. Instrument of precision	283,346	Aug. 14	1085	296	24	698
Jacks, Richard, Meadow Valley, Cal. Wagon-reach coupling	288,707	Nov. 20	1158	318	25	723
Jackson, Albert L. (See Burns, Daniel R., assignor.)						
Jackson, Amariah W., Chicago, Ill. Steam-engine	285,271	Sept. 18	1364	384	24	1154
Jackson, Amariah W., and C. S. White; said Jackson assignor to C. F. Hunt, Chicago, Ill. Steam-engine	276,970	May 1	569	148	23	1723
Jackson, Andrew. (See Buckley and Jackson.)						
Jackson, Andrew, San Francisco, Cal. Automatic time-globe	273,092	Feb. 27	1914	536 537	23	796
Jackson, Andrew, San Francisco, Cal., assignor of two-thirds to A. B. Pullman and M. E. Ward, Chicago, Ill. Indicator-padlock	287,028	Oct. 23	1581	436	25	305
Jackson, Andrew, Chester, Pa. Producing patterns upon printing-blocks	274,944	Apr. 3	77	21, 22	23	1238
Jackson, Andrew and W. B. Jefferis, Xenia, Ill. Shank-lasting tool	273,283	Mar. 6	44	14	23	842
Jackson, Byron, San Francisco, and G. W. T. Carter, Byron, Cal.; said Carter assignor to said Jackson. Pulley-block	275,916	Apr. 17	1364	375	23	1475
Jackson, Byron, and G. W. Bonds, San Francisco, Cal.; said Bonds assignor to said Jackson. Hoisting apparatus for wagon-derricks, &c	285,903	Oct. 2	160	45	25	31
Jackson, Calvin, Waukesha, Wis. Show-stand for sample-books	270,592	Jan. 16	947	274	23	203
Jackson, Calvin, Waukesha, Wis. Temporary binder	282,527	Aug. 7	64	19	24	511
Jackson, Charles, California, Ohio. Roasting and baking pan	288,640	Nov. 20	1071	294	25	709
Jackson, Charles A., assignor to D. F. Robinson, Lawrence, Mass. Telephone system	289,539	Dec. 4	209	59	25	923
Jackson, Charles A., assignor of one-half to D. F. Robinson, Lawrence, Mass. Electric motor	289,540	Dec. 4	210	59	25	923
Jackson, Charles A., assignor of one-half to D. F. Robinson, Lawrence, Mass. Electric motor	289,541	Dec. 4	211	59	25	923
Jackson, Charles P., Chicago, Ill. Ice-chest	274,337	Mar. 20	1411	387	23	1092
Jackson, Charles P., Chicago, Ill. Refrigerator-car	281,631	July 17	1615	442	24	294
Jackson, Charles P., Chicago, Ill. Refrigerator-car	282,196	July 31	2365	651	24	432
Jackson, Charles T., New York, N. Y. Electric burglar-alarm	269,862	Jan. 2	49	15	23	12
Jackson, Francis W., East Orange, N. J. Photographic-plate holder	277,737	May 15	1495	406	23	1895
Jackson, Frank, and E. R. Austin, Manchester, county of Lancaster, assignors to W. R. Comings, London, England. Rail-lifter	274,609	Mar. 27	1777	494	23	1163
Jackson, George, Cohoes, N. Y. Machine for napping and brushing knitted goods	277,489	May 15	1209	325	23	1847

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Jackson, George H. (See Luburg, Charles E., assignor.)						
Jackson, George R. (See Moore and Jackson.)						
Jackson, Harry K. (See Whitney and Jackson.)						
Jackson, Jacob A. (See Bales and Jackson.)						
Jackson, Jacob A., Des Moines, Iowa. Check or account book	290,432	Dec. 18	1334	370	25	1137
Jackson, Johiel. (See Bullock and Jackson.)						
Jackson, Johiel, Fort Atkinson, Wis. Buckboard-wagon	284,019	Aug. 28	1900	532	24	867
Jackson, John F., and D. M. Kirkpatrick, Kansas City, Mo. Gas-engine	283,398	Aug. 21	1125	318	24	716
Jackson, John W., Sharpsville, Pa. Oil-can	281,189	July 10	1053	291	24	193
Jackson, Noah, Grelton, Ohio. Traction-engine	282,197	July 31	2366	651	24	432
Jackson, Peter H., San Francisco, Cal. Iron and illuminating stairs	289,863	Jan. 2	51	16	23	12
Jackson, Peter H., San Francisco, Cal. Girder and beam	279,249	June 12	790	217, 218	23	2268
Jackson, Peter H., San Francisco, Cal. Skylight	282,641	Aug. 7	201	58	24	535
Jackson, Peter H., San Francisco, Cal. Building-front	289,105	Nov. 27	1646	456, 457	25	818
Jackson, R. (See Lidren, Christopher, assignor.)						
Jackson, Relief. (See Lidren, Christopher, assignor.)						
Jackson, Samuel, Lawrence, Mass. Spinning-mule	273,997	Mar. 13	964	265	23	1007
Jackson, Stella A., New York, N. Y. Picture-mount	288,060	Nov. 6	338	94	25	565
Jackson, Surn, Stockton, Cal. Pump	270,900	Jan. 23	1329	383, 384	23	279
Jackson, Thomas J., Reynoldsburg, Ohio. Seed-planter	290,887	Dec. 25	1929	533	25	1248
Jackson, Walter M., *et al.* (See Sloper, Byron, assignor.)						
Jackson, Walter M., Providence, R. I. Lubricant for the cocks and valves of gas apparatus	280,625	July 3	346	.....	24	61
Jackson, Walter M., Providence, R. I. Metrical carburetor	280,746	July 3	496	140	24	88
Jackson, Walter M., Providence, R. I. Metrical regulator for distributing hydrocarbon liquid to gas or air	280,747	July 3	499	141	24	88
Jackson, William A., *et al.*, (See Chambers, Josephus C., assignor.)						
Jackson, William H. (See Morrison, Gardner L., assignor.)						
Jackson, William J., Huntsville, Ala. Thrashing-machine	285,036	Sept. 18	1092	304	24	1105
Jackson, William J., McComb, Miss. Folding desk and seat	288,441	Nov. 13	827	224	25	659
Jackson, William J., assignor to Osceola Manufacturing Company, (limited,) Osceola Mills, Pa. Car-axle lubricator	284,209	Sept. 4	66	18	24	916
Jackson, William P., Sedalia, Mo. Car-door fastening	276,592	May 1	63	18	23	1638
Jackson, William W., Chicago, Ill. Bung for casks, barrels, &c.	280,931	July 10	739	206	24	136
Jacob, Frank, Woolwich, county of Kent, assignor to Siemens Brothers & Company, (limited,) Westminster, England. Electric conductor	287,288	Oct. 23	1910	522, 523	25	366
Jacobs, Benjamin F., San Francisco, Cal. Printer's proof-press	271,468	Jan. 30	2048	589	23	409
Jacobs, Charles P. (See Shellenberger, John, assignor.)						
Jacobs, Felix A., Columbus, Ohio. Packing wheelbarrows for transportation	274,781	Mar. 27	1976	550	23	1198
Jacobs, J. Eugene. (See Nash, Caleb P., assignor.)						
Jacobs, Jacob, New York, N. Y. Illuminating-tile	290,584	Dec. 18	1536	423	25	1172
Jacobs, James M., assignor to J. M. Jacobs & Son, Bluff Creek, Ind. Medicine for dyspepsia	282,898	Aug. 7	506	.....	24	590
Jacobs, Joseph, San Francisco, Cal. Wheel-guard for railway-cars	277,490	May 15	1212	325	23	1847
Jacobs, Marion, Sturgis, Mich. Car-coupling	276,183	Apr. 24	1688	466	23	1539
Jacobs & Son, J. M. (See Jacobs, James M., assignor.)						
Jacobs, William B. (See Stevenson and Jacobs.)						
Jacobs, William E., Columbus, Ohio. Wheeled scraper or excavator	289,841	Dec. 11	590	164	25	997
Jacobsen, Emil, Berlin, Germany. Production of yellow coloring-matter	290,585	Dec. 18	1538	.....	25	1172
Jacobsen, James M., Preston, Iowa. Corpse-lifter	286,202	Oct. 9	518	143	25	106
Jacobson, John, Boston, Mass. Manufacture of ornamental plaques	285,038	Sept. 18	1093	305	24	1105
Jacobus, Aaron D., Newark, N. J. Horse-bell	278,709	June 5	43	13	23	2132
Jacobus, Percival G. (See Emerson, George W., assignor.)						
Jacoby, Daniel W., Abilene, Kans. Check-rower	289,913	Dec. 11	680	189	25	1012
Jacoby, Frederick, Fort Wayne, Ind. Ice-box	271,072	Jan. 23	1541	444	23	313
Jacoby, John C., Polk, Ohio. Grain-drier	286,203	Oct. 9	518	143	25	106
Jacot, Georges F., Locle, Switzerland. Watch-escapement	272,553	Feb. 20	1216	340	23	668
Jacotot, Pierre P., Orgeux, France. Moving plow	280,479	July 3	182	48	24	33
Jacques, William W., assignor to American Bell Telephone Company, Boston, Mass. Electric cable	270,438	Jan. 9	744	218	23	154
Jadwin, Orlando H., New York, N. Y. Traction-cable railway	284,020	Aug. 28	1901	533	24	867
Jaeger, Gustav L. (See Endemann, Hermann, assignor.)						
Jaeger, Gustav L., New York, N. Y. Match-box	270,073	Jan. 2	287	85	23	58
Jaeger, Gustav L., New York, N. Y. Lead-pencil	272,700	Feb. 20	1406	394	23	701
Jaeger, Gustav L., New York, N. Y. Lead or crayon holder	273,093	Feb. 27	1917	537	23	797
Jaeger, Gustav L., New York, N. Y. Lead or crayon holder	273,546	Mar. 6	394	106	23	901
Jaeger, Gustav L., New York, N. Y. Match-making machine	273,848	Mar. 13	786	213, 214	23	977
Jaeger, Gustav L., New York, N. Y. Match-making machine	273,849	Mar. 13	789	214	23	978
Jaeger, Gustav L., New York, N. Y. Match and box therefor	280,181	June 26	1918	539	23	2474
Jaeger, Gustav L., New York, N. Y. Match-box	281,075	July 10	908	253	24	168
Jaeger, Gustav L., New York, N. Y. Manufacture of matches	282,326	July 31	2525	692	24	460
Jaeger, Gustav L., New York, N. Y. Cell-case	282,899	Aug. 7	507	142	24	590
Jaeger, Julius, Rutherford Park, N. J. Insect-powder ejector	270,074	Jan. 2	288	85	23	59
Jaeger, Julius, Rutherford Park, N. J. Reflector	285,270	Sept. 18	1363	384	24	1154
Jaeschke, Henry, St. Louis, Mo. Combined musical instrument and stool	270,075	Jan. 2	289	85, 86	23	59
Jahnke, Charles. (See Warnick, Charles P., assignor.)						
James, Benjamin L., Denver, Colo. Calcimino compound	278,969	June 5	434	.....	23	2197
James, Charles B., St. Louis, Mo. Vehicle	270,076	Jan. 2	290	86	23	59
James, Charles H., Cincinnati, Ohio. Combined hose-reel and ladder-truck	275,493	Apr. 10	825	223	23	1375
James, Enoch, *et al.* (See Taylor, Charles, assignor.)						
James, Henry, Memphis, Tenn. Bolster-plate for vehicles	281,076	July 10	909	254	24	168
James, Joseph, *et al.* (See Taylor, Charles, assignor.)						
James, Joshua L., Forsyth, Ill. Gate	285,751	Sept. 25	1955	553	24	1265
James, Lycurgus L., Medora, Ind. Wagon-brake	271,855	Feb. 6	328	90	23	498
James, Morton F., Big Rapids, Mich. Barrel-cover	276,045	Apr. 17	1515	417	23	1502
James, Rees, Houghton, Mich. Soldering-copper	284,856	Sept. 11	857	241	24	1056
James, Samuel, Lebanon, Mo. Filter	284,428	Sept. 4	329	92	24	959
James, Thomas E., Rochester, N. Y. Ringing burglar-alarm	277,738	May 15	1496	406	23	1895
James, Thomas H., Republic, Mich. Car-coupling	287,130	Oct. 23	1708	468	25	330
Jameson, Alexander C., Indianapolis, Ind. Bung for beer-barrels	280,830	July 10	614	171, 172	24	114

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Jameson, William W. (See Delany and Jameson.)						
Jamieson, James, assignor of one-half to J. G. Bowes, Hamilton, Ontario, Canada. Parlor-stove	282,085	July 31	2206	606, 607	24	407
Jamieson, John, Rockaway Beach, N. Y. Steam ice-cutting machine	273,998	Mar. 13	966	266	23	1007
Jamison, John P., Cambridgeport, Mass., assignor to New England Decorating Machine Company, Portsmouth, N. H. Ornamenting wood	271,469	Jan. 30	2049	590	23	409
Janes & Kirtland. (See Russell, Samuel, assignor.)						
Janggen, John. (See Oberle and Janggen.)						
Jansson, Olof, West Sweden, Wis. Pocket-inkstand	286,703	Oct. 16	1165	314	25	227
Jantzen, John H. (See Rhule, Jacob, assignor.)						
January & Wood. (See Jaquith, Gilman, assignor.)						
Jaquith, Gilman, assignor to himself and January & Wood, Maysville, Ky. Spinning-ring	280,626	July 3	346	96	24	61
Jaquith, Gilman, assignor to himself and January & Wood, Maysville, Ky. Whirl for bobbin-spindles	284,429	Sept. 4	330	92	24	959
Jarecki, Albert H. (See Jarecki, Charles and A. H.)						
Jarecki, Albert H., Erie, Pa. Safety-valve	287,131	Oct. 23	1709	468	25	330
Jarecki, Charles and A. H., Erie, Pa. Pop safety-valve	281,369	July 17	1287	357	24	240
Jarecki, Friderich, Erie, Pa. Lubricator	283,399	Aug. 21	1127	319	24	716
Jarecki, Friderich, Erie, Pa. Lubricator	283,400	Aug. 21	1128	319	24	716
Jarecki, Friderich, Erie, Pa. Lubricating apparatus	283,401	Aug. 21	1129	319	24	716
Jarratt, Jesse A., Concord, Ala. Fence	285,272	Sept. 18	1364	385	24	1154
Jarre, Etienne A. (See Jarre, Pierre J. and E. A.)						
Jarre, Pierre J. and E. A., Paris, France. Apparatus for filling target-balls	279,391	June 12	986	274	23	2299
Jarvis, Oscar F., Kansas City, Mo. Combined corn, cotton, and seed planter	283,347	Aug. 14	1056	297	24	698
Jarvis, Samuel E., Lansing, Mich. Engine-valve governor	273,999	Mar. 13	969	266	23	1008
Jarvis, Samuel E., Lansing, Mich. Steam-engine	275,369	Apr. 10	692	184	23	1353
Jarvis, Samuel E., Lansing, Mich. Balanced slide-valve	278,020	May 22	1843	503	23	1962
Jarvis, Samuel E., Lansing, Mich. Steam-engine governor	280,042	June 26	1771	497	23	2447
Jarvis, Solomon R., Philippi, W. Va. Harness-hook	274,782	Mar. 27	1977	550	23	1198
Jarvis, Thomas, Chicago, Ill. Combined window-platform and fire-escape	279,167	June 12	703	191	23	2253
Jarvis, Thomas, Chicago, Ill. Separable button	279,568	June 19	1199	332	23	2341
Jasmagy, Joseph O., Brooklyn, and D. H. Frost, New York, N. Y. Case for toilet-sets	274,610	Mar. 27	1778	494	23	1163
Jasnowski, Philip, Detroit, Mich. Whip-socket	274,199	Mar. 20	1222	336	23	1060
Jasper, William, Santa Cruz, Cal. Hydrocarbon-burner and apparatus for burning hydrocarbons	275,390	Apr. 10	693	184, 185	23	1353
Jay, Isaac. (See Jay and Chambers.)						
Jay, James C. and I., and B. L. Chambers, Arapahoe, Nebr. Cultivator	282,198	July 31	2366	651	24	432
Jaynes, Alphonso L., Buffalo, N. Y. Spring bed-bottom	275,661	Apr. 10	1040	281	23	1412
Jeanjaquet, F. Eugene, Detroit, Mich. Machine for cutting watch-wheels	275,494	Apr. 10	826	224	23	1375
Jeanjaquet, F. Eugène, assignor of one-half to J. F. Guilloz, Detroit, Mich. Colter-cleaner	288,442	Nov. 13	828	224	25	660
Jebb, Thomas A. (See Norton, Thomas, assignor.)						
Jebb, Thomas A., Buffalo, N. Y. Process of and apparatus for recovering starch and other valuable substances from waste water in the manufacture of starch, &c.	270,439	Jan. 9	746	219	23	154
Jebb, Thomas A. and W. T., Buffalo, N. Y. Method of and apparatus for manufacturing distilled spirits from grain	276,046	Apr. 17	1516	417	23	1502
Jebb, William T. (See Jebb, Thomas A. and W. T.)						
Jebb, William T., Buffalo, N. Y. Process of and apparatus for manufacturing distilled spirits from grain	274,783	Mar. 27	1978	551	23	1198
Jefferis, William B. (See Jackson and Jefferis.)						
Jeffers, Joseph W., Baltimore, Md. Letter-box	284,857	Sept. 11	858	241	24	1056
Jeffers, L. G., Jr., *et al.* (See Cole, Thomas Z., assignor.)						
Jeffers, Loren G., *et al.* (See Cole, Thomas Z., assignor.)						
Jefferson, Cornelius. (See Jefferson, Joseph, C., L., and M.)						
Jefferson, Joseph, C., L., and M., Bradford, county of York, England. Machine for washing fibers	286,305	Oct. 9	666	177, 178	25	131
Jefferson, Lazarus. (See Jefferson, Joseph, C., L., and M.)						
Jefferson, Mordecai. (See Jefferson, Joseph, C., L., and M.)						
Jefferson, Thomas, New York, N. Y. Surfacing and ornamenting wall-paper	273,364	Mar. 6	164	.....	23	862
Jeffery, Edwin A., *et al.* (See Martin, Morris, assignor.)						
Jeffery, Frederick O., *et al.* (See Martin, Morris, assignor.)						
Jeffery, Thomas B., Chicago, Ill. Velocipede	275,917	Apr. 17	1364	376	23	1475
Jeffery, Thomas B., Chicago, Ill. Velocipede	282,528	Aug. 7	65	19	24	511
Jeffords, John E., Philadelphia, Pa. Beer-mug	272,261	Feb. 13	840	234	23	598
Jeffrey, Joseph A. (See Legg, Benjamin A., assignor.)						
Jeffries, Van Oram, Coshocton, Ohio. Fifth-wheel	275,495	Apr. 10	828	224	23	1376
Jegler, Theodor. (See Offermann and Jegler.)						
Jelinek, Anton, assignor of one-half to J. A. Craig, Chicago, Ill. Bread or cheese cutter	280,480	July 3	183	48	24	34
Jencks, John H., Waterbury, Conn. Cutting-pliers	276,417	Apr. 24	1989	551	23	1590
Jenifer, Gustave, *et al.* (See Pullen, Joseph, assignor.)						
Jenkins, Adaline M., administratrix. (See Jenkins, Harry M.)						
Jenkins, Alfred B., New York, N. Y. Steam-valve	273,284	Mar. 6	45	14	23	842
Jenkins, Charles, Boston, Mass. Valve	271,073	Jan. 23	1542	444	23	314
Jenkins, Edward W., Norristown, Pa. Grain-binder	280,481	July 3	184	49	24	34
Jenkins, Edward W., Norristown, Pa. Harvesting-machine	283,248	Aug. 14	930	259	24	673
Jenkins, Edward W., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Grain-binder	271,074	Jan. 23	1543	445	23	314
Jenkins, Edwin, A. Law, Melbourne, and W. Price, Carlton, Victoria. Annealing chilled and other iron castings	282,728	Aug. 7	313	.....	24	555
Jenkins, Frank W., Brooklyn, N. Y. Direct-acting compound engine	287,289	Oct. 23	1911	523	25	366
Jenkins, Frank W., Brooklyn, N. Y. Apparatus for cutting packings	288,339	Nov. 13	687	189, 190	25	635
Jenkins, Harry M., deceased; A. M. Jenkins, San Francisco, Cal., administratrix. Sewing-machine needle	286,014	Oct. 2	289	81	25	24
Jenkins, Jabez, Philadelphia, Pa. Insole	280,627	July 3	347	96	24	61
Jenkins, Jabez, Philadelphia, Pa. Boot and shoe	283,249	Aug. 14	932	259	24	673
Jenkins, Joel, *et al.* (See Smith, Luella E., assignor.)						
Jenkins, Joel, Montclair, N. J. Safety-pin	276,971	May 1	570	149	23	1724
Jenkins, Joel, Montclair, N. J., assignor of one-half to G. P. Farmer, New York, N. Y. Safety-pin	281,190	July 10	1054	291	24	193
Jenkins, Morgan M. (See Adams and Jenkins.)						
Jenkins, Sylvester, Norristown, Pa. Key-board attachment for musical instruments	280,043	June 26	1772	498	23	2447
Jenkins, Thomas, Jr. (See Drummond and Jenkins.)						
Jenkins, William R., Jr., Bellefonte, Pa. Rake for ore-washers	271,856	Feb. 6	329	91	23	498
Jenkins, William R., Jr., Bellefonte, Pa. Car-wheel	276,047	Apr. 17	1518	418	23	1502

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Jenkinson, Richard C. (See Reichenbach, Oscar, assignor.) (Reissue.)						
Jenks, Charles W., Philadelphia, Pa. Bag or satchel	287,680	Oct. 30	2419	652	25	470
Jenks, Lemuel P., Boston, assignor of one-half to L. R. Binney, Shirley, Mass. Carpet-lining, &c.	271,075	Jan. 23	1546	445	23	314
Jenks, M. Woodburn, Decatur, Ill. Plaiting-machine	270,568	Jan. 9	911	263	23	187
Jenks, Scott, Cheshire, Mass., and H. W. Millar, assignors to said Jenks and C. and H. W. Millar, Utica, N. Y. Cheese-making apparatus	283,250	Aug. 14	933	260	24	673
Jenks, Scott, Cheshire, Mass., and H. W. Millar, assignors to said Jenks and C. and H. W. Millar, Utica, N. Y. Cheese-making apparatus	283,251	Aug. 14	935	260, 261	24	673
Jenks, Stephen A. (See Booth, John, assignor.)						
Jenne, Charles H., Indianapolis, Ind. Spring-motor for road-wagons	287,939	Nov. 6	189	55, 56	25	540
Jenne, Homer E., Ben Lomond, Cal. Interest-indicator	287,290	Oct. 23	1914	524	25	366
Jenney, Edwin S., Syracuse, N. Y. Head-light	270,804	Jan. 16	1209	349	23	252
Jennings, Abraham G. (See Urbahn, Alwill, assignor.)						
Jennings, Abraham G. (See Ward, Anthony, assignor.)						
Jennings, Arthur O. (See Kuhn, Edmond, assignor.)						
Jennings, Arthur O., Southport, assignor to Jerome & Co., New Haven, Conn. Clock-case	278,144	May 22	1993	548	23	1988
Jennings, Orlando B., Honey Creek, Wis. Manufacture of sugar from sugar-cane, sorghum, maize, and other plants	287,544	Oct. 30	2229	605, 606	25	434
Jennings, Orlando B., Honey Creek, Wis. Evaporator for making sugar from saccharine juices, &c.	287,545	Oct. 30	2232	606	25	435
Jennings, Ralph S., Baltimore, Md. Preserving fish	273,094	Feb. 27	1918	.....	23	797
Jennings, Wayland H., Rochester N. Y. Process of and apparatus for separating seeds from cucumbers, &c	283,787	Aug. 28	1602	452	24	815
Jensen, Carl L., Philadelphia, Pa. Manufacture of pepsin	286,138	Oct. 2	439	.....	25	88
Jensen, Carl L., Philadelphia, Pa. Vaginal syringe	287,681	Oct. 30	2419	652	25	470
Jensen, Jens, Racine, Wis. Facing-iron for wagon-bodies	280,182	June 26	1919	539	23	2474
Jensen, Jens, Racine, Wis. Neck-yoke	280,183	June 26	1920	540	23	2474
Jensen, Johanes M. (See Fallesen and Jensen.)						
Jensen, Mathias, assignor of seventeen twenty-sixths to A. T. Brakke, M. J. Kinney, Astoria, and S. Farrell, Portland, Oreg. Can-filling machine	281,767	July 24	1804	492, 493	24	333
Jensen, Ole A., Chicago, Ill. Drawer	290,237	Dec. 18	1071	300	25	1092
Jenssen, Fred., San Francisco, Cal. Separation of nitric acid from a mixture of nitric and sulphuric acids	284,742	Sept. 11	722	201	24	1033
Jerauld, Ensign L. (See Kendrick and Jerauld.)						
Jerome & Co. (See Jennings, Arthur O., assignor.)						
Jerzmanowski, Erazm. J., New York, N. Y. Generating gas	278,145	May 22	1993	548	23	1988
Jerzmanowski, Erazm. J., New York, N. Y. Process of and apparatus for manufacturing gas	278,146	May 22	1994	548	23	1989
Jerzmanowski, Erazm. J., New York, N. Y. Apparatus for producing gas	289,842	Dec. 11	593	164, 165	25	997
Jerzmanowski, Erazm. J., New York, N. Y. Producing combustible gas	289,914	Dec. 11	681	189	25	1012
Jessup, John C., New York, N. Y. Color-can	286,015	Oct. 2	290	81	25	54
Jett, John, San Francisco, Cal. Combined stock and case for fire-arms	276,593	May 1	65	18	23	1639
Jettinger, Oscar. (See Unckrich, Ferdinand F. P., assignor.)						
Jewell, Delbert W., Alexander, N. Y. Piston-packing	271,076	Jan. 23	1547	446	23	315
Jewell, Omar H., Chicago, Ill. Lubricator	270,805	Jan. 16	1210	349	23	252
Jewell, Omar H., Chicago, Ill. Oil or water injector	271,077	Jan. 23	1548	446	23	315
Jewell, William M., Denver, Colo. Feed-mechanism for roller-mills	280,184	June 26	1920	540	23	2475
Jewett, Dewitt C., Sand Spring, Iowa. Hay-loader	271,470	Jan. 30	2050	500	23	410
Jewett, Edward M. (See Burk, John J., assignor.)						
Jewett, Frank F., Oberlin, Ohio. Bottle-stopper	276,822	May 1	372	99	23	1691
Jewett, Luther K., Fitchburg, Mass. Construction-car	279,950	June 26	1654	464	23	2427
Jewett, Luther K., Fitchburg, Mass. Car-truck	279,951	June 26	1655	464	23	2427
Jewett, Nathan, Toledo, Ohio, assignor of one-half to Plano Manufacturing Company, Plano, Ill. Cord-tyer for grain-binding machines	277,739	May 15	1497	406	23	1895
Jewett, Nathan, Toledo, Ohio, assignor to himself and Plano Manufacturing Company, Plano, Ill. Knot-tying device for grain-binders	284,430	Sept. 4	331	92	24	959
Jewett, Nathan, assignor of one-half to W. H. Cray and A. E. Rood, Toledo, Ohio. Harvester-reel	284,304	Sept. 4	183	51	24	935
Jewett, Thomas B., Steubenville, Ohio. Cultivator	274,784	Mar. 27	1980	551	23	1199
Jiencke, George, Philadelphia, Pa., assignor to American Spring Car Motor Company, Camden, N. J. Spring-motor	273,365	Mar. 6	165	46	23	862
Jillson, Alonzo, Racine, Wis. Hub for traction-wheels	278,021	May 22	1844	503	23	1962
Joadwine, John, Chicago, Ill. Detachable calk for horseshoes	276,694	May 1	205	53	23	1659
Jobbins, W. F. (See Freeman, Walter K., assignor.)						
Jobbins, William F. (See Beardslee, George W., assignor.)						
Jobbins, William F. (See Freeman, Warren P., assignor.)						
Jobbins, William F., East Orange, N. J. Electric lamp	270,806	Jan. 16	1211	349	23	252
Jocelyn, Albert H. (See Holden and Griswold, assignors.)						
Jocelyn, Albert H. (See Thomas, Eddy T., assignor.)						
Jochum, John, Brooklyn, N. Y. Operating cars on cable railways	288,815	Nov. 20	1291	354	25	747
Jocken, Sophia. (See Lauckner, Richard, assignor.)						
Joel, Samuel, New York, N. Y. Holder for the settings of stones	289,106	Nov. 27	1648	457	25	818
Johannes, Gerhard, and P. Cyphers, Hiawatha, Kans. Self-setting animal-trap	273,547	Mar. 6	395	106	23	901
Johannsen, Nicholas A. L. J., Brooklyn, N. Y. Duplex spring-balance	269,941	Jan. 2	143	42	23	30
Johansen, Johan C. (See Woodman and Johansen.)						
John, Harry. (See Allison, John, and Evans.)						
John, Lewis A., Dunlap, Kans. Combined barrow and cultivator	289,659	Dec. 4	357	101	25	950
Johns, Charles T., assignor of one-half to C. D. Everett, Cleveland, Ohio. Railway safety-switch	274,200	Mar. 20	1223	336	23	1060
Johns, Henry W., Stamford, Conn. Fire-proof cloth	290,238	Dec. 18	1072	300	25	1092
Johns, Henry W., Stamford, Conn. Asbestus cloth	290,239	Dec. 18	1073	300	25	1092
Johns, Will R., Rockford, Ill. Carpet-fastener	284,637	Sept. 11	583	164	24	1009
Johns, Will R., Rockford, Ill. Combined hay tedder and rake	290,775	Dec. 25	1789	494	25	1224
Johnsen, Carl, Christiania, Norway. Dividers	280,831	July 10	615	172, 173	24	115
Johnsen, Nels E. (See Johnson and Johnsen.)						
Johnson, Abijah, Denver, Colo. Fire-escape	287,940	Nov. 6	191	56	25	540
Johnson, Adelbert L., Atchison, assignor of one-half to H. R. Tomlinson, Lawrence, Kans. Washing-machine	281,882	July 24	1950	533	24	359
bert F. and F. B., assignors to Johnson Manufacturing Company, Brooklyn, omatic printing-telegraph	275,339	Apr. 3	597	160, 161, 162	23	1327

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Johnson, Albert M., New Haven, Conn. Watchman's time-recorder	287,291	Oct. 23	1915	524	25	366
Johnson, Albert W., New Haven, Conn. Presser-foot for sewing-machines	282,642	Aug. 7.	202	59	24	535
Johnson, Alfred. (See Costolo and Johnson.)						
Johnson, Allen P., *et al.* (See Sawtell, La Fayette, assignor.)						
Johnson, Andrew F., Stillwater, and J. P. Turner, St. Peter, Minn. Combined bag filling and weighing machine	290,240	Dec. 18	1074	300	25	1092
Johnson, Andrew J., Cuyahoga Falls, Ohio. Fire-escape	286,306	Oct. 9	667	178	25	131
Johnson, Arthur H., Woodland, Cal. Shoe for grain-separators	289,915	Dec. 11	682	189	25	1012
Johnson, Calvin P., and S. T. Walkley, Springfield, Mo. Car-coupling	275,662	Apr. 10	1041	281	23	1412
Johnson, Calvin P., and S. T. Walkley, Springfield, Mo. Car-coupling	275,663	Apr. 10	1042	282	23	1412
Johnson, Charles, Union City, Mich. Eccentric	282,327	July 31	2526	692	24	460
Johnson, Charles, Union City, Mich. Eccentric	287,440	Oct. 30	2100	571	25	408
Johnson, Charles, St. George, New Brunswick, Canada. Fire-escape	284,431	Sept. 4	332	92	24	959
Johnson, Charles C., assignor to J. Messinger, Springfield, Vt. Device for suspending lamps	271,579	Jan. 30	2177	627	23	431
Johnson, Charles F., Owego, N. Y. Force-feed fertilizer-distributer	285,413	Sept. 25	1537	434	24	1190
Johnson, Charles M. (See Allaire and Johnson.)						
Johnson, Charles M. (See McCarty and Johnson.)						
Johnson, Claude M. (See McMurtry and Johnson.)						
Johnson, Daniel A. (See Merrill, Rufus S., assignor.)						
Johnson, Daniel A., Boston, Mass. Thill-coupling	282,086	July 31	2207	607	24	408
Johnson, Daniel A., assignor of one-fourth to R. S. Merrill, Boston, Mass. Flying target	282,000	July 24	2089	573	24	382
Johnson, Edward H. (See Bergmann, Sigmund, assignor.)						
Johnson, Edward J., *et al.* (See Stoddard, Oscar, assignor.)						
Johnson, Edwin L., Shutesbury, Mass. Yoke for draft-animals	287,682	Oct. 30	2420	653	25	472
Johnson, Elmore, and J. Barnes, Burlington, Vt. Cooler for liquids and solids	290,687	Dec. 25	1671	460	25	1201
Johnson, Ephraim S., Jersey City, N. J. Chain-bar, &c	272,444	Feb. 20	1080	304	23	644
Johnson, Ephraim S., Jersey City, N. J. Pencil or crayon holder	290,988	Dec. 25	2069	569	25	1270
Johnson, Ernest V., assignor to Ottawa Tile Company, Chicago, Ill. Fire-proof ceiling	270,677	Jan. 16	1055	302	23	292
Johnson, Frank, Afton, N. Y. Horse-collar fastener	278,970	June 5	435	119	23	2197
Johnson, Frank B. (See Johnson, Albert F. and F. B.)						
Johnson, Frank C., Kishwaukee, Ill. Neck-yoke	282,529	Aug. 7	66	20	24	512
Johnson, Frank G., Brooklyn, N. Y. Pocket cigar-clipper	274,201	Mar. 20	1224	337	23	1060
Johnson, Frank G., Brooklyn, N. Y. Ballasting	284,210	Sept. 4	68	19	24	916
Johnson, Frank G., Brooklyn, and J. H. Hayward, Northfield, N. Y. Canopy for folding steamer-chairs	270,224	Jan. 9	474	139	23	103
Johnson, Frank G., Brooklyn, and J. H. Hayward, Northfield, N. Y. Arm for folding steamer-chairs	271,248	Jan. 30	1750	506	23	357
Johnson, Frank G., Brooklyn, and J. H. Hayward, Northfield, N. Y. Adjustable steamer-chair	271,857	Feb. 6	330	91	23	499
Johnson, Frank H., Biggsville, Ill. Cultivator	272,701	Feb. 20	1407	395	23	701
Johnson, Frederick H., Elizabeth, N. J., assignor to Van Campen, Johnson & Hance, New York, N. Y. Match-receptacle	282,731	Aug. 7	316	90	24	555
Johnson, Frederick M., Gardiner, Oreg. Ore concentrator and amalgamator	287,546	Oct. 30	2233	606	25	435
Johnson, George J. and E. H. Thomas, La Crosse, Wis. Draw-gear for railway-cars	290,241	Dec. 18	1076	301	25	1093
Johnson, Gurdon B. (See Murphy, Daniel R., assignor.)						
Johnson, Hastings H. (See White, Clarence O., assignor.)						
Johnson, Henry, Washington, D. C. Folding commercial packing-box	284,211	Sept. 4	69	19	24	916
Johnson, Henry, assignor to M. N. Johnson, New York, N. Y. Paper-cutting machine	273,285	Mar. 6	46	14	23	842
Johnson, Henry C., Meadville, Pa. Fire-proof safe	281,514	July 17	1470	404	24	271
Johnson, Henry H. (See Van Benschoten and Johnson.)						
Johnson, Isaac W., New Richmond, Wis. Mortising-machine	286,016	Oct. 2	290	81	25	54
Johnson, Ithuel M., Corning, N. Y. Wagon-jack	276,594	May 1	66	18	23	1639
Johnson, Jacob, Newburyport, assignor of one-fourth to M. Scrannage, Medford, Mass. Time-signal	286,616	Oct. 16	1054	284	25	208
Johnson, Jacob K., Union Point, Ga. Mop-holder	285,039	Sept. 18	1094	305	24	1106
Johnson, James A., Charlestown, Ind. Land-roller	288,061	Nov. 6	339	95	25	565
Johnson, James M., Northumberland, N. H. Cooking-steamer	287,292	Oct. 23	1918	524	25	367
Johnson, Jeremiah, St. Joseph, Mo. Combined dirt-scraper, leveler, and ditching-machine	283,113	Aug. 14	765	215	24	643
Johnson, Jeremiah P., assignor to Johnson, Rose & Co., Detroit, Mich. Platform-spring	280,832	July 10	616	173	24	115
Johnson, Jerome F., *et al.* (See Bond, Nathan O., assignor.)						
Johnson, John, Brooklyn, N. Y. High-pressure filter-press	270,807	Jan. 16	1212	350	23	252
Johnson, John, Atkinson, Ill. Fence-post	286,017	Oct. 2	291	82	25	55
Johnson, John, and L. Wagner, assignors of one-third to G. Allen, Chicago, Ill. Valve	283,788	Aug. 28	1603	453	24	815
Johnson, John A. (See Conradson, Conrad M., assignor.)						
Johnson, John N. (See Stoddard and Johnson.)						
Johnson, Jonathan, Lowell, Mass. Heater	274,785	Mar. 27	1981	551	23	1199
Johnson, Joseph S., and M. Osborn, Dos Cabezos, Ariz. Ter. Shoe and die for amalgamating-pans	276,418	Apr. 24	1990	551	23	1591
Johnson, Joseph W. (See Thatcher and Johnson.)						
Johnson, Joshua, Briscoe Run, W. Va. Portable fence	283,114	Aug. 14	767	216	24	643
Johnson, Larence A., and N. E. Johnsen, Portland, Oreg. Dredging-machine	281,883	July 24	1952	533	24	359
Johnson, Lenson, Vincennes, Ind. Compound electrical conductor	288,443	Nov. 13	829	225	25	660
Johnson, Lewis C., Auburn, Ky. Conveyer for smoke and cinders	290,586	Dec. 18	1538	423	25	1172
Johnson, Louis K., Brooklyn, N. Y. Type holder and separator	277,740	May 15	1499	407	23	1896
Johnson, Louis K., Brooklyn, N. Y. Type and space holder	279,168	June 12	704	191	23	2253
Johnson, Louis K., and A. A. Low, Brooklyn, N. Y. Type-setting apparatus	271,711	Feb. 6	148	41	23	466
Johnson, Louis K., and A. A. Low, Brooklyn, N. Y. Type setting and distributing machine	275,664	Apr. 10	1043	282 283	23	1412
Johnson, Louis K., and A. A. Low, Brooklyn, N. Y. Type-distributing apparatus	282,988	Aug. 14	603	170 171	24	615
Johnson, Lyman P., Seneca Castle, N. Y. Reel for wire	280,628	July 3	348	96	24	61
Johnson, M. Nichols. (See Johnson, Henry, assignor.)						
Johnson, Madison L., Galena, Ill. Basket for burial-caskets	275,665	Apr. 10	1046	283	23	1413
Johnson Manufacturing Company. (See Johnson, Albert F. and F. B., assignors.)						
Johnson, Mathew, Ellenville, N. Y. Apparatus for making glass insulators	282,929	Aug. 14	605	171	24	615
Johnson, Mathew, Chicago, Ill. Tuning device for stringed instruments	288,062	Nov. 6	339	95	25	565
Johnson, Miles E., Palmer, Ill. Check-row planter	288,444	Nov. 13	830	225	25	660
Johnson, Moses C., assignor to himself and W. N. Woodruff, Hartford, Conn. Wheel-hub	273,548	Mar. 6	397	106	23	902
Johnson, Moses C., assignor of one-half to W. N. Woodruff, Hartford, Conn. Pivoted hand-tool	273,548	Mar. 6	398	106	23	902
Johnson, Moses C., assignor to himself and W. N. Woodruff, Hartford, Conn. Vehicle-wheel	273,850	Mar. 13	790	214	23	978
Johnson, Percy H., Marlborough, Mass. Game	282,990	Aug. 14	607	172	24	615
Johnson, Peter. (See Hamilton, Jonathan R., assignor.)						
Johnson, Peter L., Springfield, Mass. Window-mirror	285,037	Sept. 18	1092	305	24	1105

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Johnson Railway Heater Company. (See Johnson and Buerkel, assignors.)						
Johnson, Reberto H., Palestine, Tex. Hand-car	270,678	Jan. 16	1056	302	23	222
Johnson, Richard, Belleville, Ill. Coal-mining machine	284,560	Sept. 4	485	136 137	24	986
Johnson, Richard A., Newnan, Ga. Hand seed-planter and fertilizer-distributer	287,132	Oct. 23	1710	468	25	330
Johnson, Richard J. (See Smith and Johnson.)						
Johnson, Richard W., *et al.* (See King, Josias R., assignor.)						
Johnson, Robert, and J. F. Buerkel, Boston, Mass. Heater	288,708	Nov. 20	1159	318	25	723
Johnson, Robert, and J. F. Buerkel, assignors to Johnson Railway Heater Company, Boston, Mass. Heater	279,486	June 12	1096	303	23	2317
Johnson, Robert M., Hainesport, N. J. Core-box	273,095	Feb. 27	1919	537	23	797
Johnson, Rose & Co. (See Johnson, Jeremiah P., assignor.)						
Johnson, Samuel, San Francisco, Cal. Sewer-gate	289,107	Nov. 27	1648	457	25	818
Johnson, Samuel, San Francisco, Cal. Sewer-gate	289,108	Nov. 27	1649	458	25	819
Johnson, Samuel W., Medford, Mass. Marine refrigerator	276,824	May 1	374	100	23	1691
Johnson, Samuel W., Belmont, Mass. Ice-machine	288,063	Nov. 6	340	95	25	565
Johnson Steel Street Rail Company. (See Moxham, Arthur J., assignor.)						
Johnson, Tom L., Indianapolis, Ind. Street-railway rail	272,554	Feb. 20	1217	340 341	23	668
Johnson, Tom L., Indianapolis, Ind. Curve, frog, &c., for street-railways	276,419	Apr. 24	1991	551	23	1591
Johnson, Walter, Jackson, Mich. Tool for compressing seals	278,434	May 29	2392	652 653	23	2067
Johnson, Warren S., Whitewater, assignor of one-half to W. Plankinton, Milwaukee, Wis. Electric tele-thermoscope	281,884	July 24	1953	534	24	359
Johnson, Warren S., Whitewater, assignor of one-half to W. Plankinton, Milwaukee, Wis. Electric meter	286,445	Oct. 9	835	226	25	162
Johnson, Wiley T. (See Tate and Johnson.)						
Johnson, William, Lambertville, N. J. Vise	277,570	May 15	1308	351	23	1862
Johnson, William E. (See Lange, Edward, assignor.)						
Johnson, William H., Manchester, county of Lancaster, England. Wire-netting	278,147	May 22	1996	549	23	1989
Johnson, William H., assignor to T. A. Galt and G. S. Tracy, Sterling, Ill. Automatic check-row planter	272,702	Feb. 20	1408	395	23	701
Johnson, William H., assignor to T. A. Galt and G. S. Tracy, Sterling, Ill. Corn-planter	284,858	Sept. 11	859	241	24	1056
Johnson, William J., Boston, Mass. Press for drying matrices	271,858	Feb. 6	332	91	23	499
Johnson, William J., Columbus, Miss. Ornamental chain	290,688	Dec. 25	1673	461	25	1202
Johnson, William M., *et al.* (See Hartman, Henry, assignor.)						
Johnson, William O., Kaufman, Tex. Treadle	289,418	Dec. 4	55	16	25	896
Johnson, William S., Washington, D. C. Electrical signaling device	283,736	Aug. 21	1526	431	24	790
Johnston, Abner, Cornwall, N. Y. Fruit-gathering vessel	280,185	June 26	1921	540	23	2475
Johnston, Abner, Cornwall, assignor of two-thirds to N. Secor, New York, N. Y. Belt-coupling	280,186	June 26	1923	541	23	2475
Johnston, Abner, Cornwall, assignor of one-half to N. Secor, New York, N. Y. Car-coupling	288,816	Nov. 20	1292	354	25	747
Johnston, Alexander H., Detroit, Mich. Load-binder	289,109	Nov. 27	1650	458	25	819
Johnston, Algernon K. (See Nugent, Edward, assignor.)						
Johnston, Allen, Ottumwa, Iowa. Machine for barbing wire	273,286	Mar. 6	48	15	23	843
Johnston, Andrew M. (See Allen, William, assignor.)						
Johnston, Andrew M. (See Kimball, Frank H., assignor.)						
Johnston, Edward H., assignor to Wharton Railroad Switch Company, Philadelphia, Pa. Machine for beveling the edges of metal plates	275,666	Apr. 10	1046	283	23	1413
Johnston, George, Detroit, Mich. Eyeglasses	271,712	Feb. 6	150	41	23	466
Johnston Harvester Company. (See Cooley, Orville, assignor.)						
Johnston, Hector M., Eau Claire, Wis. Pump	276,048	Apr. 17	1519	418	23	1502
Johnston, James J., assignor to United States Improvement Company, (limited,) Columbiana, Ohio. Hard soap	273,235	Feb. 27	2092	.....	23	827
Johnston, James J., assignor to United States Improvement Company, (limited,) Columbiana, Ohio. Healing-soap	273,236	Feb. 27	2093	.....	23	827
Johnston, James J., assignor to United States Improvement Company, (limited,) Columbiana, Ohio. Fodder-cutter	273,237	Feb. 27	2093	567	23	827
Johnston, James J., assignor to United States Improvement Company, (limited,) Columbiana, Ohio. Sash-weight	273,238	Feb. 27	2095	567	23	828
Johnston, James J., assignor to United States Improvement Company, (limited,) Columbiana, Ohio. Toilet-soap	273,239	Feb. 27	2096	.....	23	828
Johnston, James P., Melville, Ga. Fertilizer-distributer	280,932	July 10	741	206 207	24	136
Johnston, John F., Brooksby Chemical Works, Bow Common Lane, county of Middlesex, England. Offal-drier	285,135	Sept. 18	1210	339 340	24	1125
Johnston, John J., San Francisco, Cal. Machine for soldering tin cans	276,823	May 1	373	99	23	1691
Johnston, John T. (See Murphy and Johnston.)						
Johnston, Robert E., Middletown, Ohio. Cord-coating machinery	289,773	Dec. 4	495	137 138	25	972
Johnston Ruffler Company. (See Thomas and Brevoort, assignors.)						
Johnston, Samuel L., assignor to J. B. Rooney, Walpole, Mass. Machine for making loom-harness straps	272,055	Feb. 13	567	158	23	554
Johnston & Son, J. R. (See Birch, John, assignor.)						
Johnston, T. S., *et al.* (See Stephens, Abner L., assignor.)						
Johnston, Thomas, assignor to Chadborn & Coldwell Manufacturing Company, Newburg, N. Y. Lawn-mower handle	271,471	Jan. 30	2051	591	23	410
Johnston, W. H. (See Wunderlich, Jacob H., assignor.)						
Johnston, William, Philadelphia, Pa. Variable coupling-joint for shafting	276,420	Apr. 24	1992	552	23	1591
Johnston, William, Essex, Iowa. Force-pump	284,859	Sept. 11	860	242	24	1057
Johnston, William A., Clifton, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental-engine suspension-bracket	286,704	Oct. 16	1166	314	25	227
Johnston, William A., Clifton, A. W. Browne, Westfield, N. Y., E. T. Starr and J. W. Gilbert, assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental-engine hand-piece	287,683	Oct. 30	2421	653	25	471
Johnston, William M. (See Jope and Johnston.)						
Johnston, William P. (See McDonald, Alexander E., assignor.)						
Johnstone, Henry L., Palmetto, Ga. Car-coupling	286,307	Oct. 9	668	178	25	131
Johnstone, John, Detroit, Mich. Oil-stove	281,515	July 17	1471	404	24	272
Johnstone, William H., Philadelphia, Pa. Stretcher	273,287	Mar. 6	52	16	23	843
Johnstone, William H., Philadelphia, Pa. Conduit for electric wires	274,611	Mar. 27	1779	494	23	1163
Johnstone, William H., Philadelphia, Pa. Underground conduit for electric wires	279,392	June 12	987	275	23	2299
Johum, Joseph A., New York, N. Y. Shuttle-movement for sewing-machines	282,729	Aug. 7	314	89	24	555
Joiner, Brantley P., Florence, Ala. Stock-car	276,595	May 1	66	18	23	1639

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Jolley, William F., Middlesex, N. Y. Fire-escape	274,338	Mar. 20	1412	387	23	1092
Jolly, George W., Paraiso Springs, assignor of one-half to I. J. Hattabaugh, San José, Cal. Animal-trap	289,268	Nov. 27	1835	506	25	854
Joly, Charles C. (See Lloyd, Edwin L., assignor.)						
Jonas, Bernhard W., *et al.* (See Lederer, Charles, assignor.)						
Jonas, Frank B. (See Christmas and Jonas.)						
Jones, A. Sheridan, Olivet, Dak. Ter. Magazine fire-arm	270,808	Jan. 16	1214	350	23	253
Jones, Addison, Omaha, Nebr. Seal-holding attachment for hasp-locks	288,641	Nov. 20	1072	295	25	709
Jones, Albert L., Brooklyn, N. Y. Fabric for window-shades, &c	283,893	Aug. 28	1721	485	24	835
Jones, Alexander, *et al.* (See Barnard, Charles S., assignor.)						
Jones, Andros B., Southborough, Mass. Boot or shoe holding jack	279,169	June 12	705	192	23	2253
Jones, Augustus H. (See Miller and Jones.)						
Jones, Augustus H., assignor to C. Parker Company, Meriden, Conn. Extension lamp-fixture	271,334	Jan. 30	1866	541	23	376
Jones, Augustus H., assignor to Foster Hardware Company, Meriden, Conn. Call-bell	277,741	May 15	1500	407	23	1896
Jones, Augustus H., assignor to Foster Hardware Company, Meriden, Conn. Call-bell	280,748	July 3	500	142	24	89
Jones & Brother, C. E. (See Jones and Billings, assignors.)						
Jones, C. D. (See Pond, Orlando M., assignor.)						
Jones, Charles A., Hatherley Court, Gloucester, county of Gloucester, England. Step-ladder	286,617	Oct. 16	1055	284	25	908
Jones, Charles E., and C. H. Billings, assignors to C. E. Jones & Brother, Cincinnati, Ohio. Hub-band	270,547	Jan. 9	886	257	23	183
Jones, Charles H., Chicago, Ill. Type-planer	284,638	Sept. 11	584	164	24	1009
Jones, Charles T., Utica, N. Y. Sewing-machine	285,136	Sept. 18	1211	341	24	1125
Jones, Christopher C., Savannah, Ga. Rotary engine	275,667	Apr. 10	1047	284	23	1413
Jones Combination Shingle and Sheathing Company. (See Jones, Henry A., assignor.)						
Jones, Daniel, Boston, Mass. Sucker-rod	273,234	Feb. 27	2091	586	23	827
Jones, Edgar A., Three Rivers, Mich. Bench clothes-wringer	272,885	Feb. 27	1069	466	23	754
Jones, Edgar A., Three Rivers, Mich. Bed-spring	276,421	Apr. 24	1993	559	23	1591
Jones, Edwin R., Martin's Ferry, Ohio. Clover thrasher and huller	278,336	May 29	2274	691	23	2045
Jones, Erwin, Brooklyn, N. Y. Combined show-case and separator	272,703	Feb. 20	1411	395	23	702
Jones, Evan, Pittsburg, Pa. Glass-furnace	281,697	July 24	1709	465	24	316
Jones, Florentine A., New York, N. Y. Recording pressure-gage	287,685	Oct. 30	2428	653, 654	25	472
Jones, Florentine A., New York, N. Y. Recording pressure-gage	287,686	Oct. 30	2428	654	25	472
Jones, Florentine A., New York, N. Y., and S. Glines, Boston, Mass. Recording pressure-gage	287,684	Oct. 30	2426	653	25	472
Jones, Frank, assignor of two-thirds to S. S. Martin and O. J. Pierson, Middlebury, Ind. Paint for roofing and other purposes	278,664	May 29	2669	.....	23	2115
Jones, Frederick L., Fentonville, Mich. Overcheck-terret for bridles	288,709	Nov. 20	1160	318	25	723
Jones, George M. (See Kelly, John T., assignor.)						
Jones, Harry, Richmond, assignor of one-half to R. R. Rouse, Indianapolis, Ind. Chain-pump	282,900	Aug. 7	508	142	24	590
Jones, Harry A. (See Jones, Lewellyn D., assignor.)						
Jones, Henry A., Brooklyn, assignor to Jones Combination Shingle and Sheathing Company, New York, N. Y. Roofing-shingle	279,487	June 12	1097	303	23	2317
Jones, Henry B., Philadelphia, Pa. Inkstand	283,348	Aug. 14	1058	297	24	698
Jones, Henry C., Wilmington, Del. Dishing metal plates	270,077	Jan. 2	291	86	23	59
Jones, Henry G., Darby, Pa. Automatic railway signal and alarm	282,730	Aug. 7	314	90	24	555
Jones, Henry L., Buffalo, N. Y. Iron fence	281,077	July 10	910	254	24	168
Jones, Henry M., Meriden, Conn. Corner-plate for frames	287,441	Oct. 30	2101	571	25	408
Jones, Hezekiah D., assignor of one-fourth to H. E. Bibbens, Onarga, Ill. Check-row attachment for corn-planters	274,612	Mar. 27	1780	494, 495	23	1163
Jones, Hilliard M., Stockton, Cal. Coupling-link	271,713	Feb. 6	151	42	23	466
Jones, Horace E., Caribou, Me. Mouth-piece for cornets	275,918	Apr. 17	1366	376	23	1476
Jones, Idwal M., assignor of one-half to I. Winsor, Providence, R. I. Pipe-nipple holder	289,419	Dec. 4	56	16	25	896
Jones, J. Thomas, Utica, N. Y. Friction-clamp for fire-escapes	284,305	Sept. 4	184	52	24	935
Jones, Jacob G., Baltimore, Md., assignor of one-half to H. K. Thurber, New York, N. Y. Machine for putting tops and bottoms on cans	271,860	Feb. 6	333	92	23	499
Jones, Jacob G., Baltimore, Md., assignor of one-half to H. K. Thurber, New York, N. Y. Can-soldering machine	283,713	Aug. 21	1500	423	24	785
Jones, James. (See Pearce and Jones.)						
Jones, John, Oregon City, Oreg. Miner's combination-tool	270,315	Jan. 9	576	169	23	123
Jones, John, Oregon City, Oreg. Miner's candlestick	270,316	Jan. 9	577	170	23	123
Jones, John B., Brooklyn, N. Y., assignor, by mesne assignments, to Kalamein Alloy Company, (limited,) Pittsburg, Pa. Alloy for coating metals. (Reissue)	10,415	Dec. 4	521	.....	25	977
Jones, John W., *et al.* (See New, Albert L., assignor.)						
Jones, John W., Centropolis, Kans. Cultivator-shovel	273,550	Mar. 6	399	107	23	902
Jones, John W., Greenfield, Ind. Combined seed-planter and fertilizer-distributer	275,919	Apr. 17	1366	376	23	1476
Jones, Joseph D., Brooklyn, N. Y. Extracting oleaginous matter from animal and vegetable substances	287,382	Oct. 23	2025	550	25	386
Jones, Joseph D., Brooklyn, assignor to W. T. Lawton, New York, N. Y. Extracting oleaginous matter from animal and vegetable substances	271,859	Feb. 6	332	91	23	499
Jones, Joseph T., and J. H. Wild, Leeds, county of York, England. Apparatus for boring rocks under water	285,628	Sept. 25	1793	510, 511	24	1238
Jones, L. J., *et al.* (See Atkinson, Henry C., assignor.)						
Jones, Lewellyn D., assignor of one-half to H. A. Jones, Olney, Md. Lifting-jack	276,140	Apr. 17	1635	450	23	1522
Jones, Llewellyn E., Syracuse, N. Y. Hame	273,096	Feb. 27	1920	537	23	797
Jones, Marcus R., assignor to T. J. Welby, Baltimore, Md. Letter-box	271,861	Feb. 6	335	92	23	499
Jones, Mathew T. (See Logue, Jones, and Morrill.)						
Jones, Melville D., Somerville, Mass. Sign	283,115	Aug. 14	767	216	24	644
Jones, N. A. T., Plymouth, Mass. Apparatus for filtering and purifying water in steam-boilers	286,705	Oct. 16	1168	314	25	227
Jones, Nicholas A., Leavenworth, Kans. Automatic weighing-scale	270,078	Jan. 2	292	87	23	59
Jones, Noel C., Auburn, N. Y. Ice-creeper	278,337	May 29	2275	622	23	2045
Jones, Norman K., Youngstown, Ohio. Cutter-head for carving scrolls	275,391	Apr. 10	696	185	23	1354
Jones, Oscar T., deceased, P. Fox, administrator, assignor to T. Jones, New Orleans, La. Horse-detacher	281,860	July 24	1924	526	24	354
Jones, Owen H., Hartford, Conn. Car-ventilator	277,903	May 22	1699	464	23	1938
Jones, Priscilla A., Madison, Wis. Sewing-machine attachment	275,048	Apr. 3	217	59	23	1263
Jones, Richard B., assignor of two-thirds to R. Richards and G. F. Wetherell, Chicago, Ill. Planing-machine	278,338	May 29	2276	622	23	2045
Jones, Richard B., and G. F. Wetherell, assignors of one-third to R. Richards, Chicago, Ill. Resawing-machine	272,445	Feb. 20	1061	305	23	644

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Jones, Richard F., assignor of three-fourths to Famous Shoe and Clothing Company and J. Kerr, St. Louis, Mo. Combined cash and bundle conveyer	274,000	Mar. 13	970	266	23	1008
Jones, Robert K., Liverpool, county of Lancaster, England. Ratchet-drill	285,629	Sept. 25	1796	511	24	1238
Jones, Robert M., Santa Fé, N. Mex. Ter. Solar attachment for transit instruments	270,679	Jan. 16	1057	302	23	222
Jones, Robert V., Cleveland, Ohio. Match-holder	271,580	Jan. 30	2178	627	23	432
Jones, Samuel A., Chicago, Ill. Grain-binder	280,379	July 3	47	13	24	11
Jones, Samuel N. (See Shaffer, Charles H., assignor.)						
Jones, Squire R., Lacon, Ill. Car-coupling	282,732	Aug. 7	316	90	24	555
Jones, Stephen H., Lowell, Mass. Let-off mechanism for looms	289,420	Dec. 4	57	16	25	896
Jones, T. B. (See Riggin, William M. assignor.)						
Jones, Theodore. (See Jones, Oscar T., assignor.)						
Jones, Thomas B., Madisonville, Ky. Running-gear for vehicles	282,733	Aug. 7	317	90, 91	24	555
Jones, Thomas F., *et al.* (See Robbins, Fabius, assignor.)						
Jones, Walter, New York, N. Y. Saw-frame	284,432	Sept. 4	334	93	24	960
Jones, Walter, Niagara Falls, N. Y. Machine for preparing wood for pulping in the manufacture of paper	284,433	Sept. 4	334	93	24	960
Jones, Washington, Philadelphia, Pa. Variable cam	284,960	Sept. 11	861	242	24	1057
Jones, Whitfield E., Brooklyn, N. Y. Sheet-metal machine	288,575	Nov. 13	989	272	25	689
Jones, William, San Francisco, Cal. Hydraulic Portland cement	287,941	Nov. 6	191	.....	25	541
Jones, William C., Philadelphia, Pa., assignor to W. M. Clayton, Denver, Colo. Kerfing-gage for saws	286,018	Oct. 2	292	82	25	55
Jones, William F., Baltimore, Md. Sectional inking-roller	276,925	May 1	377	100	23	1692
Jones, William H. D., Brixton, county of Surrey, England. Knife-cleaning machine	281,885	July 24	1955	534	24	360
Jones, William L., Holly Springs, Miss. Cotton-bale tie	285,499	Sept. 25	1625	456	24	1205
Jones, William R., Braddock, Pa. Manufacture of Bessemer metal	287,687	Oct. 30	2429	.....	25	472
Jones, Willis, Brooklyn, N. Y. Carriage-axle	286,139	Oct. 2	440	120	25	82
Jones, Wright, Manchester, county of Lancaster, England. Balanced slide-valve	270,809	Jan. 16	1216	351	23	253
Jonis, John B., Olympia, Wash. Ter. Toggle for boom-chains	286,544	Oct. 9	954	257	25	184
Jonson, Josiah, Toledo, Ohio. Anti-friction bearing for wringing-machines	286,618	Oct. 16	1057	284	25	208
Jonson, Julius, assignor to Jonson Power Embroidery Machine Company, New York, N. Y. Embroidering-machine	277,289	May 8	967	259, 260, 261	23	1799
Jonson Power Embroidery Machine Company. (See Jonson, Julius, assignor.)						
Jonte, Pierre F., Cincinnati, Ohio. Mechanical movement	281,078	July 10	911	254	24	168
Jope, William P. T., and W. M. Johnston, Pittsburg, Pa. Machine for punching shovel-straps	276,249	Apr. 24	1766	492	23	1553
Jopling, Jesse, Longwood, Mo. Submarine boat	273,851	Mar. 13	792	215	23	978
Jopson, George W., Meriden, Conn. Key-ring	276,826	May 1	378	101	23	1692
Jordan, Ambrose L., assignor of one-half to R. C. Jordan, Ottawa, Ill. Hay and grain unloader	271,862	Feb. 6	336	92	23	500
Jordan, Edmund, Brooklyn, assignor to E. W. Bliss, New Utrecht, N. Y. Punching-press	290,433	Dec. 18	1335	370	25	1137
Jordan, Michael, Scranton, Pa. Car wheel and axle	269,942	Jan. 2	146	42	23	30
Jordan, Michael W., Bellaire, Ohio. Combined table and carriage for potters	274,001	Mar. 13	972	267	23	1008
Jordan, Richard C. (See Jordan, Ambrose L., assignor.)						
Jordan, Robert G., *et al.* (See Pederson, Ole, assignor.) (Reissue.)						
Jordan, Scott D., Cape Elizabeth, Me. Extension clothes-pole	275,770	Apr. 10	1180	324	23	1436
Jordan, William F., Brooklyn, N. Y. Wrought-iron	270,901	Jan. 23	1331	.....	23	279
Jordon, Charles G., Catlin, Colo. Canteen	273,097	Feb. 27	1921	538	23	797
Jorgensen, Axel, Des Moines, Iowa. Machine for barbing fence-wire	280,029	July 3	348	97	24	61
Jory, William E., San Francisco, Cal. Wave-power	281,370	July 17	1289	357	24	240
Josef, Edward E., Buffalo, N. Y. Wheel	277,904	May 22	1700	464	23	1938
Josel, Francis E., Freeport, Ill. Fire-escape ladder	285,273	Sept. 18	1365	385	24	1154
Joseph, Hiram W. (See Henninger, Julius, assignor.)						
Josephs, Nathan, *et al.* (See Anderson, Charles G., assignor.)						
Joslin, Charles S., Attleborough, Mass. Holder for acid-carboys	273,098	Feb. 27	1922	538	23	797
Joss, George N., New Philadelphia, Ohio. Screen-frame	277,135	May 8	796	209	23	1768
Jotten, John, Chicago, Ill. Skittle-square or game-board	284,306	Sept. 4	185	52	24	935
Jowett, Thomas L., assignor of one-half to J. Anderson, Boston, Mass. Adjustable desk attachment for drawers	282,087	July 31	2209	607	24	408
Jowitt, Josiah, Summit, N. J. Apparatus for treating or saturating paper, felt, &c	285,490	Sept. 25	1625	456, 457	24	1205
Joy, Edwin W., Iowa City, Iowa, assignor, by mesne assignments, to Pattee Plow Company, Monmouth, Ill. Cultivator. (Reissue)	10,297	Mar. 20	1565	428	23	1119
Joy, Thaddeus C., Titusville, Pa. Grate	279,250	June 12	791	218, 219	23	2268
Joyce, Jacob O., Dayton, Ohio. Lifting-jack	271,863	Feb. 6	337	93	23	500
Joyce, Jacob O., Dayton, Ohio. Lever-jack	271,864	Feb. 6	338	93	23	500
Joyce, Jacob O., Dayton, Ohio. Lifting-jack	276,827	May 1	378	101	23	1692
Joyce, John T., Plainville, Mass. Ornamental chain	290,643	Dec. 18	1610	443	25	1184
Joyce, Joseph L., New Haven, Conn. Shoe	282,901	Aug. 7	509	143	24	590
Joyce, Joseph L., New Haven, Conn. Box-toe for boots and shoes	288,944	Nov. 20	1446	398	25	776
Joyce, Thomas, Buckland, Mass. Heel-stiffener for boots or shoes	277,571	May 15	1309	351	23	1862
Joyce, Thomas H., Carbondale, Pa. Breeching-loop and holdback-ring	285,414	Sept. 25	1539	434	24	1190
Joyner, Fletcher, Glens Falls, N. Y. Center-board for sailing-vessels	284,130	Aug. 28	2037	566	24	890
Judd, Charles B. (See Gates, George W., assignor.)						
Judd & Co., H. L. (See Campbell, James W., assignor.)						
Judd, Cyrenius W. (See Judd, Orrin H. and C. W.)						
Judd, Garritt P., assignor to H. Phillips, San Francisco, Cal. Gas-machine	273,852	Mar. 13	794	215	23	978
Judd, Morton, Wallingford, Conn. Sash-fastener	281,768	July 24	1807	494	24	333
Judd, Oliver S., *et al.* (See Frost, Howard B., assignor.)						
Judd, Orrin H., and C. T. Rawalt, Fairfield, Nebr. Corn and cane harvester	276,422	Apr. 24	1995	552, 553	23	1592
Judd, Orrin H., Fairfield, Nebr., and C. W. Judd, Meadville, Pa. Weed and grass turning attachment for plows	283,116	Aug. 14	768	216	24	644
Judkins, Henry E. (See Shaw and Judkins.)						
Judson, Lyman P., deceased, assignor, by mesne assignments, to Washburn & Moen Manufacturing Company, Worcester, Mass. Fence. (Reissue)	10,313	Apr. 10	1221	334	23	1442
Judson, William B., Kansas City, Mo. Box-fastener	274,497	Mar. 27	1637	455	23	1138
Jumbo Patent Glove Company. (See Schoonmaker, Elon, assignor.)						
Juncker, Charles, Paris, France. Ornamentation of walls, paper, textile fabrics, glassware, &c	277,572	May 15	1310	.....	23	1862
June, John, and L. Falk, Manson, Iowa. Feed-cooker	284,861	Sept. 11	862	242	24	1057
June Manufacturing Company. (See Hughes, Joseph D., assignor.)						
Junkin, Lawrence M., Leet, Pa. Seal-lock	275,496	Apr. 10	828	225	23	1376

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Jürgensen. Christopher P., Copenhagen, Denmark. Electric-arc lamp	270,954	Jan. 23	1400	404	23	290
Jürt, Joseph, Cullman, Ala. Decorticating-machine for grain	274,002	Mar. 13	972	267	23	1008
Justi, Henry D. (See Schmitz, Theodore H., assignor.)						
Justin, Myron L., *et al.* (See Dow and Chandler, assignors.)						
Kabus, Friedrich and R., New York, N. Y. Optometer	271,472	Jan. 30	2052	591	23	410
Kabus, Robert. (See Kabus, Friedrich and R.)						
Kacer, Martin V., and W. J. Kriz, St. Louis, Mo. Fire-arm	273,288	Mar. 6	53	16	23	844
Kacer, Martin V., and W. J. Kriz, St. Louis, Mo. Magazine fire-arm	282,328	July 31	2527	693	24	460
Kadish, Leopold J. (See Pusch, Johann, assignor.)						
Kaeppel, Charles, New York, N. Y. Dumping-wagon	272,555	Feb. 20	1220	341	23	668
Kaeppel, Charles, New York, N. Y. Dumping-wagon	287,547	Oct. 30	2235	607	25	435
Kaestner, August, New York, N. Y. Lamp	288,340	Nov. 13	689	190	25	635
Kaffenberger, Gustav, assignor to Black & Clawson Company, Hamilton, Ohio. Screening-machine	276,596	May 1	67	19	23	1639
Kahl, Dorsey P., Lineville, Pa. Car-coupling	290,060	Dec. 11	853	242	25	1044
Kahler, Conrad, Chicago, Ill. Printing-press folder	276,972	May 1	571	149, 150	23	1724
Kahler, Frank C. C., Chicago, Ill. Necktie-fastener	287,442	Oct. 30	2102	571	25	408
Kahlmus, John, *et al.* (See Keller and Myers, assignors.)						
Kahn, Joseph, Detroit, Mich. Safety-pocket for garments	283,609	Aug. 21	1371	383	24	760
Kai, Quan, San Francisco, Cal. Seam for uniting pieces of leather	283,252	Aug. 14	936	261	24	674
Kail, John L., Boone, Iowa. Bran-compressor	287,133	Oct. 23	1711	468, 469	25	331
Kaiser, Jacob, Brookline, Mass. Steam-engine	285,904	Oct. 2	161	45, 46	25	32
Kaiser, Nicolaus, Grellingen, Switzerland. Machinery for assorting wood pulp and similar material	276,250	Apr. 24	1768	492	23	1553
Kaiser, William, Wilkes-Barré, Pa. Hydrant	278,435	May 29	2395	653	23	2067
Kaiser, William, Wilkes-Barré, Pa. Hydrant-valve	284,021	Aug. 28	1902	533	24	867
Kalamein Alloy Company. (See Jones, John B., assignor.) (Reissue.)						
Kaldenberg, Frederick J., New York, N. Y. Lead or crayon holder	282,530	Aug. 7	67	20	24	512
Kaldenberg, Frederick J., New York, N. Y. Manufacture of articles from waste amber	290,888	Dec. 25	1930	.....	25	1248
Kalfus, Suthern, Louisville, Ky. Combined cooler and filter	274,339	Mar. 20	1413	387	23	1093
Kallista, Joseph, assignor of one-half to W. C. Hanna, Peoria, Ill. Horse-collar pad	283,610	Aug. 21	1372	383	24	760
Kals, Emil J. C., Yolo, Cal. Washing-machine	275,049	Apr. 3	218	59	23	1263
Kaltenbacher, Dominick, Shelbyville, Ky. Trace-eye guard	281,079	July 10	912	255	24	168
Kaltenbacher, Dominick, Shelbyville, Ky. Blinder for bridles	281,080	July 10	913	255	24	168
Kaltwasser, Frederick, Belleville, Ill. Stove-pipe fitting and fastening	278,798	June 5	166	49	23	2151
Kampfe, Frederick and O., Brooklyn, N. Y. Die and stamping press	272,056	Feb. 13	588	159	23	554
Kampfe, Otto. (See Kampfe, Frederick and O.)						
Kampfe, Richard, Brooklyn, N. Y. Electro-magnetic car-brake	290,689	Dec. 25	1673	461	25	1202
Kanaley, David F., Pittsburg, Pa. Roll for rolling steel springs	272,556	Feb. 20	1221	341	23	668
Kandeler, C. F. Theodor, Chicago, Ill. Burning brick	283,402	Aug. 21	1130	319	24	717
Kane, Charles I., *et al.* (See Tillou and Clapp, assignors.)						
Kane, Daniel P. (See Goodman, Henry, assignor.)						
Kane, Dennis J. and J. E., New Bedford, Mass. Machine for molding book-backs	280,380	July 3	51	14	24	11
Kane, Frank H., Riverside, assignor of one-half to W. Kruse, Sedamsville, Ohio. Steam-boiler furnace	273,099	Feb. 27	1923	538	23	797
Kane, James E. (See Kane, Dennis J. and J. E.)						
Kane, Thomas. (See Durant, Edward G., assignor.)						
Kane, Thomas. (See Durant and Kane.)						
Kanne, Frederick F., Waterville, Minn. Harvester-reel. (Reissue)	10,266	Jan. 2	434	126, 127	23	90
Kanne, Frederick F., Waterville, Minn. Harvester-reel	272,057	Feb. 13	589	159	23	554
Kanouse, John G. (See Miller, Richard, assignor.)						
Kapp, Cornelius H., New York, N. Y. Button	275,218	Apr. 3	433	118	23	1300
Karchner, Edward, *et al.* (See Harris, Charles A., assignor.)						
Karleskind, Frank J., St. Louis, Mo. Stove-pipe thimble and fine-stopper	276,597	May 1	69	19	23	1639
Karns, James E., Apollo, Pa. Gas-burner for heating and metallurgical purposes	288,445	Nov. 13	830	225	25	660
Karns, William E., Parker's Landing, Pa. Packing-ring for pumps	278,557	May 29	2539	692	23	2092
Karns, William E., Parker's Landing, Pa. Apparatus for cleaning oil-wells	282,531	Aug. 7	68	20	24	512
Karns, William E., Parker's Landing, Pa. Apparatus for regulating the flow and pressure of gas in gas-wells	288,446	Nov. 13	831	225	25	660
Karr, Jacob, Washington, D. C. Quarter-second timing-clock	271,078	Jan. 23	1549	446, 447	23	315
Karr, Jacob, Washington, D. C. Quarter-second time mechanism	273,100	Feb. 27	1924	538, 539	23	797
Karshner, William W., Washington, D. C. Galvanic battery	280,933	July 10	742	207	24	136
Karstens, Carsten N., Nebraska City, Nebr. Extension-table	286,827	Oct. 16	1318	359	25	254
Kasehagen, Leo, and H. Wietheger, Chicago, Ill. Device for cutting yeast	282,088	July 31	2209	607	24	408
Kasey, Thomas A., Salem, Va. Soap	283,403	Aug. 21	1131	.....	24	717
Kasschau, Henry C. A., New York, N. Y. Fishing-reel	285,630	Sept. 25	1797	512	24	1238
Kassen, Henry and J., Cincinnati, Ohio. Coffee-boiler	279,649	June 19	1294	359	23	2358
Kassen, John. (See Kassen, Henry and J.)						
Kasson, Amasa C., assignor to Chicago Stamping Company, Chicago, Ill. Bake-pan and steamer	285,905	Oct. 2	162	46	25	32
Katz, Leopold A. (See Marcus, Morris H., assignor.)						
Katzenberg, Jacob, New York, N. Y. Suspender-end	290,061	Dec. 11	855	242	25	1044
Katzenmayer, Ernest, Chillicothe, Ohio, assignor to Mallinckrodt Brake Company, East St. Louis, Ill. Car-brake	287,293	Oct. 23	1919	524	25	367
Katzenmayer, Ernest, Chillicothe, Ohio, assignor to Mallinckrodt Brake Company, East St. Louis, Ill. Car-brake	287,294	Oct. 23	1920	525	25	367
Katzenmayer, Ernest, Chillicothe, Ohio, assignor to Mallinckrodt Brake Company, East St. Louis, Ill. Car-brake	287,295	Oct. 23	1922	525	25	368
Kauffer, Theodore L., and J. Serson, assignors of one-third to C. H. Dennie, Boston, Mass. Galvanic battery	272,058	Feb. 13	590	159	23	554
Kauffer, Theodore L., and J. Serson; said Kauffer assignor of part to W. B. S. Gay, Boston, Mass. Galvanic battery	279,872	June 19	1552	434	23	2403
Kauffman, John. (See Breyer, Joseph, assignor.)						
Kauffman, John. (See Roth, Frank J., assignor.)						
Kauffmann, John. (See Metz, Benjamin F., assignor.)						
Kaufholz, John N., assignor to himself and S. M. Carpenter, Cleveland, Ohio. Machine for centering shafts, axles, &c	272,704	Feb. 20	1412	396	23	702
Kaufmann, Isaac, *et al.* (See Zander, Franz, assignor.)						
Kaufmann, Joseph, New York, N. Y. Faucet	279,952	June 26	1656	464	23	2427

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kaufmann, Sigmund, *et al.* (See Zander, Franz, assignor.)						
Kaufmann & Strauss. (See Hagelberg, Wolff, assignor.)						
Kautz, Joseph, New York, N. Y. Barrel	273,853	Mar. 13	795	216	23	979
Kay, F. G. (See Reese, Abram, assignor.)						
Kay, Joshua A., Melbourne, Victoria. Cultivating-machine	273,101	Feb. 27	1926	539, 540	23	798
Kay, Joshua A., assignor of one-half to D. Beath, Melbourne, Victoria. Endless band-knife	286,706	Oct. 16	1169	314	25	227
Kay, William V., Waukegan, assignor to E. M. Crandal, Chicago, Ill. Barbed fence-wire	286,967	Oct. 16	1522	419	25	288
Kaye, John, assignor of one-half to Wolfenden, Shore & Co., Cardington, Pa. Spout for oil-cans	270,810	Jan. 16	1219	351	23	253
Kaylor, John, Decatur, Ill. Check-row attachment for corn-planters	274,123	Mar. 20	1134	312	23	1043
Kaylor, John, and J. Fisher, Decatur, Ill. Check-row attachment for corn-planters	282,532	Aug. 7	68	20	24	512
Keach, Abram. (See Towan, James H., assignor.)						
Kealy, Stephen A. (See Phillips and Kealy.)						
Kean, Henry, Kinnickinnick, Wis. Churn	276,508	May 1	70	19	23	1640
Kearney, Frank, assignor of one-tenth to L. M. Hosea, Cincinnati, Ohio. Manufacture of shoes	286,204	Oct. 9	519	143	25	106
Kearney, William, Belleville, N. J. Furnace-grate	285,040	Sept. 18	1094	305	24	1106
Kearns, Isaac F., Chicago, Ill. Flat-iron attachment for oil-stoves	272,059	Feb. 13	592	160	23	554
Kearns, Isaac F., Chicago, Ill. Oil-stove	284,639	Sept. 11	585	164, 165	24	1009
Kearns, John C., Maitland, Pa. Chain-pump	283,894	Aug. 28	1722	486	24	835
Kearwille, John, Jr., Centreville, Iowa. Harness-loop	289,269	Nov. 27	1836	507	25	854
Keating, Joshua, *et al.* (See Collings, William, assignor.)						
Keating, Michael, Boston, Mass. Folding crib	273,102	Feb. 27	1928	540	23	798
Keck, James, Portland, Oregon. Nasal inhaler and irrigator	285,753	Sept. 25	1956	554	24	1065
Keckeler, T. T., *et al.* (See Bowen, William J., assignor.)						
Keebler, Godfrey, *et al.* (See Keller and Myers, assignors.)						
Keech, Daniel A., assignor of one-half to H. Keech, Cannonsburg, Mich. Fire-escape	284,434	Sept. 4	335	93	24	960
Keech, Hannah. (See Keech, Daniel A., assignor.)						
Keefe, John. Oswego, N. Y. Steam-radiator tube	273,740	Mar. 13	645	172	23	953
Keefe, John C., assignor of one-half to J. W. Bennett, Lowell, Mass. Barrel-head-strengthening device	284,022	Aug. 28	1903	533	24	867
Keefer, Calvin M., New Castle, Pa. Railway-rail joint	287,296	Oct. 23	1924	526	25	368
Keefer, Israel, assignor of two-thirds to O. D. Levis, Pittsburg, Pa. Rudder for vessels	282,643	Aug. 7	203	59	24	535
Keegan, Vincent E., Boston, Mass. Dynamo-electric machine	275,392	Apr. 10	697	186	23	1354
Keele, Peyton S., Summersville, Mo. Agricultural implement	282,644	Aug. 7	204	59	24	535
Keeler, George W., Telford, Pa. Mowing-machine	284,435	Sept. 4	336	93	24	960
Keelor, J. Reinhart Z. (See Quinque, August, assignor.)						
Keely, Isaac I., Anderson, Ind. Car-coupling	276,141	Apr. 17	1636	451	23	1523
Keely, Thomas, Memphis, Tenn. Refrigerator	278,148	May 22	1997	549	23	1989
Keely, Thomas, Memphis, Tenn. Privy-sink	278,558	May 29	2539	693	23	2092
Keen, Charles C. and F. G., North McGregor, Iowa. Rub-iron for vehicles	278,149	May 22	1999	549	23	1989
Keen, Frank G. (See Keen, Charles C. and F. G.)						
Keene, Jacob, Middletown, N. Y. Wire-puller	288,241	Nov. 13	561	156	25	614
Keenan, William, assignor to B. F. Piel, Brooklyn, N. Y. Felting-machine	279,393	June 12	989	275	23	2300
Keenan, William T., *et al.* (See Shiver, Elisha, assignor.)						
Keene, George A., Lynn, Mass. Feathering-paddle	274,945	Apr. 3	80	22	23	1239
Keeney, Calvin N., Le Roy, N. Y. Bean-assorting machine	279,953	June 26	1657	465	23	2427
Keenholts, Addison. (See Keenholts, George and A.)						
Keenholts, George and A., Buffalo, N. Y. Spring bed-bottom	270,811	Jan. 16	1219	351	23	253
Keep, James M., assignor to J. N. Keep, Montclair, N. J. Bill or letter file	279,170	June 12	706	192	23	2253
Keep, Joanna N. (See Keep, James M., assignor.)						
Keffer, Peter, assignor of one-half to E. M. Reazor, Reading, Pa. Shutter-fastener	286,828	Oct. 16	1319	360	25	254
Kefuss, John D., *et al.* (See Gunckel, Winfield O., assignor.)						
Kegreisz, Emile, Wood Haven, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Manufacture of enameled iron-ware	279,094	June 5	595	162	23	2225
Kehler, Amos, assignor of one-half to G. B. Lesh, Warsaw, Ind. Machine for bending plow-handles	288,576	Nov. 13	991	273	25	689
Keibel, Carl, Folsong, near Tauer, Germany. Candle-holder	273,103	Feb. 27	1928	540	23	798
Keil, Adam, Monongahela City, Pa. Car-wheel	290,434	Dec. 18	1338	370	25	1137
Keil, Adam, Monongahela City, Pa. Car wheel and axle	290,435	Dec. 18	1339	371	25	1138
Keilt, Patrick, Brooklyn, N. Y. Water-service plug	288,642	Nov. 20	1073	295	25	709
Keim, Adolph, Munich, Bavaria, Germany. Mineral painting	287,942	Nov. 6	192	56	25	541
Keiser, Bernhard, Ferndale, Pa. Turbine water-wheel	272,705	Feb. 20	1413	390	23	702
Keith Electric Company. (See Keith, Nathaniel S., assignor.)						
Keith, George, Jr., Freedom, Ill. Grain weigher and tally	271,079	Jan. 23	1552	447	23	315
Keith, Henry M., Erving, Mass. Car-coupling	284,436	Sept. 4	337	94	24	960
Keith, Horace M., Commerce, assignor of one-half to J. P. Harger, Pontiac, Mich. Combined corn-planter and marker	283,253	Aug. 14	937	261, 262	24	674
Keith, Jeremiah, Florence, Mass. Sewing-machine	273,854	Mar. 13	796	216, 217	23	979
Keith, Jesse M., Maiden Rock, Wis. Spring bed-bottom	275,668	Apr. 10	1049	284	23	1413
Keith, Jesse M., Maiden Rock, and S. R. Bolton, Trim Belle, Wis.; said Bolton assignor to said Keith. Weather-board gage	283,404	Aug. 21	1132	320	24	717
Keith, Nathaniel S., New York, N. Y. Electric-arc lamp	281,698	July 24	1710	465	24	316
Keith, Nathaniel S., assignor to Keith Electric Company, New York, N. Y. Electric-arc lamp	272,262	Feb. 13	840	234, 235	23	598
Keith, Nathaniel S., New York, N. Y., assignor to American Electric Storage Company, Newark, N. J. Secondary battery	273,855	Mar. 13	802	217	23	979
Keith, Robert L., Brazil, Ind. Carriage-top	283,895	Aug. 28	1723	486	24	835
Keith, Thomas K. (See Whitney and Keith.)						
Keith, Thomas K., assignor to himself and R. Carleton, Haverhill, Mass. Mechanism for sewing on beads	271,473	Jan. 30	2053	591	23	410
Keith, Thomas K., assignor to himself, L. Whitney, and R. Carleton, Haverhill, Mass. Toy hoop	275,771	Apr. 10	1181	324	23	1436
Keith, Thomas K., and R. Carleton, Haverhill, Mass. Fire-escape	288,447	Nov. 13	833	226	25	660
Keizer, Lewis R. (See Painter, Murrill, and Keizer.)						
Keleher, John O., Gold Dirt, Colo. Feed-water heater	288,064	Nov. 6	342	95	25	565
Kellam, Daniel C., Detroit, Mich. Steam damper-regulator	284,023	Aug. 28	1904	533	24	868
Kellar, William C., and R. R. Ditzel, Cincinnati, Ohio. Harness-buckle	270,680	Jan. 16	1059	302	23	922
Keller, Adam, New York, N. Y., assignor of one-half to J. C. Downing, Newark, N. J. Bracelet	281,371	July 17	1290	357	24	241
Keller, Bernard M. (See Forrester, Isaac N., assignor.)						
Keller, Frank. (See Keller, John A., assignor.)						
Keller, Henry, Sauk Centre, Minn. Sled	281,372	July 17	1291	357	24	241

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Keller, Henry, assignor of one-half to G. K. Page, Corpus Christi, Tex. Car-coupling	273,104	Feb. 27	1930	541	23	799
Keller, John. (See McKenzie and Keller.)						
Keller, John, St. Louis, Mo. Feed-water heater	282,902	Aug. 7	510	143	24	590
Keller, John A., assignor one-third to F. Keller, Hamilton, Ohio. Caster	285,491	Sept. 25	1628	457	24	1206
Keller, John F., Martinsburg, W. Va. Flexible drill-hoe	269,943	Jan. 2	147	43	23	30
Keller, John F., Martinsburg, W. Va. Boot and adjustable point for seeding-machines	269,944	Jan. 2	147	43	23	30
Keller, John G., Monticello, Ill. Chimney-protector	276,423	Apr. 24	1098	553	23	1592
Keller, Louis, New York, N. Y. Cartridge-loading machine	272,060	Feb. 13	503	160	23	555
Keller, Louis, New York, N. Y. Decoy	274,124	Mar. 20	1136	312	23	1044
Keller, Louis, New York, N. Y. Jointed gun-rod	275,050	Apr. 3	218	59	23	1263
Keller, Martin S. (See Keller and Myers.)						
Keller, Peter, New York, N. Y. Gas-burner	280,482	July 3	186	49	24	34
Keller, Peter, assignor to P. H. Hargrave, New York, N. Y. Gas-regulator	270,079	Jan. 2	293	87	23	60
Keller, Thomas H. and M. S., and C. W. Myers, assignors of part to M. V. B. Steinmetz, Lincoln, G. Keebles, Philadelphia, Pa., J. W. Ruger, and J. W. Ruger & Co., Buffalo, N. Y., C. Müller and J. Kahlmus, Philadelphia, Pa. Bretzel-machine	277,573	May 15	1311	351, 352	23	1863
Keller, William, Hoboken, N. J., assignor to himself, J. Lefevre, New York, and F. P. Mundschenk, Brooklyn, N. Y. Fur garment	281,886	July 24	1956	534	24	360
Kelley, Austin, Brooklyn, N. Y. Corset-stay	283,611	Aug. 21	1372	384	24	760
Kelley, Austin, assignor to J. Stuart, Brooklyn, N. Y. Bustle	287,029	Oct. 23	1583	436	25	305
Kelley, Charles B. (See Mahan, Frank M., assignor.)						
Kelley, David J., assignor to M. L. Kelley, Boston, Mass. Button-stay	277,574	May 15	1314	353	23	1863
Kelley, Edward W., Lowell, Mass. Fire-escape	270,902	Jan. 23	1331	384	23	279
Kelley, Edward W., Lowell, Mass. Flier for roving-machines	282,329	July 31	2529	693	24	461
Kelley, Frederick H. (See Waterman and Kelley.)						
Kelley, James H., New York, N. Y. Roof-coating	289,003	Nov. 27	1519	.....	25	796
Kelley, John, assignor of two-thirds to H. H. Hill and S. T. Walker, Moline, Ill. Chain-conveyer	273,741	Mar. 13	646	172	23	953
Kelley, John W., Manchester, Vt. Thill-coupling	278,339	May 29	2278	622	23	2046
Kelley, Margaret L. (See Kelley, David J., assignor.)						
Kelley, Patrick J., assignor to Whitman Agricultural Company, St. Louis, Mo. Continuous baling-press	282,089	July 31	2210	608	24	408
Kelley, Thomas W. (See Butler and Kelley.)						
Kelley, William J. (See Taylor, Francis C., assignor.)						
Kellogg, Charles, Buffalo, N. Y. Machine for rolling tubes, columns, &c	278,340	May 29	2279	623	23	2046
Kellogg, Chester, *et al.* (See Wolfe, Horace S., assignor.)						
Kellogg, Clement A., Columbus Grove, Ohio. Sulky-plow	288,341	Nov. 13	690	190	25	635
Kellogg, Eugene P., New York, N. Y. Sleeping-car	279,954	June 26	1658	465, 466	23	2427
Kellogg, Frank, Brooklyn, N. Y. Wagon-jack	274,498	Mar. 27	1638	455	23	1138
Kellogg, Frank J., Battle Creek, Mich. Rule or measure	290,889	Dec. 25	1930	533	25	1248
Kellogg, Henry, New Haven, Conn. Bicycle	283,612	Aug. 21	1374	384	24	761
Kellogg, Henry W., Ripon, Wis. Raising cream from milk	269,864	Jan. 2	51	16	23	13
Kellogg, Joseph A., Nashville, Tenn. Mail-bag catcher	286,932	Oct. 16	1448	398	25	275
Kellogg, L. S. (See Crane, Thomas, assignor.)						
Kellogg Newspaper Company, A. N. (See Pratt, Edwin E., assignor.)						
Kellogg, Warren T., Cohoes, N. Y. Gallows-frame for portable driving mechanisms	279,650	June 19	1294	359	23	2358
Kellogg, Warren T., Cohoes, N. Y. Device for converting motion	279,651	June 19	1295	360	23	2358
Kellogg, William E., Independence, Iowa. Timber-truck	285,818	Oct. 2	44	14	25	10
Kells, Edward, Cleveland, Ohio. Cooling lard and like materials	284,212	Sept. 4	72	20	24	917
Kells, Edward, assignor of one-half to D. A. Dangler, Cleveland, Ohio. Method of and apparatus for freezing paraffine, &c	271,080	Jan. 23	1554	447	23	315
Kells, Edward, and A. J. Adams, assignors of one-third to D. A. Dangler, Cleveland, Ohio. Extracting and mixing linseed-oil	280,483	July 3	186	.....	24	34
Kelly, Albert C., and G. W. Wimmer, San Francisco, Cal. Lemon-squeezer	276,424	Apr. 24	1098	553	23	1592
Kelly, Bartholomew J., Troy, N. Y. Straight-way valve	281,061	July 10	913	255	24	168
Kelly, Daniel, assignor of one-half to W. B. Kelly, Muskegon, Mich. Table	274,614	Mar. 27	1782	495	23	1163
Kelly, Dennis, assignor of one-half to J. W. Brewster, Cincinnati, Ohio. Coat and cloak hook	271,640	Feb. 6	70	19	23	452
Kelly, Edmund F. (See Tucker and Kelly.)						
Kelly, Edward J., Monongahela City, Pa. Car-wheel	288,817	Nov. 20	1294	354	25	747
Kelly, Edward M., Parker's Landing, Pa. Show-box for boots and shoes	271,081	Jan. 23	1555	448	23	316
Kelly, Francis W., Minneapolis, Minn. Valve for water-cocks	279,569	June 19	1200	332	23	2341
Kelly, Frank M., Watertown, assignor of one-half to C. W. Bassett, Newton, Mass. Curtain-fixture	280,833	July 10	617	173	24	115
Kelly, George, Chicago, Ill. Non-conducting covering	273,687	Mar. 6	576	153	23	932
Kelly, George, Chicago, Ill. Lining for non-conducting coverings	273,688	Mar. 6	577	153	23	933
Kelly, George, Chicago, Ill. Fire-proof material for filling safes, doors, &c	283,789	Aug. 28	1604	.....	24	815
Kelly, George, Chicago, Ill. Running-gear for vehicles	284,640	Sept. 11	586	165	24	1010
Kelly, George, assignor to Kelly Scroll Section Manufacturing Company, Chicago, Ill. Covering for steam-boilers, &c	273,689	Mar. 6	578	153	23	933
Kelly, George, assignor of one-half to S. Clark, Chicago, Ill. Fire-escape	276,973	May 1	573	150	23	1724
Kelly, George, Chicago, Ill., assignor to Kelly Scroll Section Manufacturing Company. Non-conducting covering	278,559	May 29	2540	693	23	2092
Kelly, Henry and J., Goshen, Ind. Well-drilling machine	285,274	Sept. 18	1366	385	24	1155
Kelly, Henry and J., Goshen, Ind. Wood-turning lathe	287,688	Oct. 30	2431	654	25	472
Kelly, Henry and J., Goshen, Ind. Pump	289,270	Nov. 27	1836	507	25	854
Kelly, J. Miller, Rochester, N. Y. Railway time-indicator	281,516	July 17	1473	404	24	272
Kelly, J. Miller, Rochester, N. Y. Locomotive head-light	283,254	Aug. 14	941	262	24	675
Kelly, J. Miller, Rochester, N. Y. Signal for locomotive head-lights	288,242	Nov. 13	561	156	25	614
Kelly, James, *et al.* (See Kelly, John, assignor.)						
Kelly, John. (See Beckett, Albert A., assignor.)						
Kelly, John, Luling, La. Vacuum-pan	278,150	May 22	1999	550	23	1990
Kelly, John, Peoria, Ill. Lubricator	281,699	July 24	1714	466	24	317
Kelly, John, Baltimore, Md. Propulsion of ships, &c	286,205	Oct. 9	520	143	25	106
Kelly, John, assignor of two-thirds to T. and J. Kelly, Chicago, Ill. Water-closet	270,080	Jan. 2	293	87	23	60
Kelly, John, assignor of two-thirds to T. and J. Kelly, Chicago, Ill. Stop and waste cock	283,613	Aug. 21	1376	384, 385	24	761
Kelly, John C., St. Louis, Mo. Gas-burner	271,641	Feb. 6	70	19	23	452
Kelly, John J., Newark, N. J. Harness or hame link	277,290	May 8	974	261	23	1800
Kelly, John T., assignor to himself and G. M. Jones, Brooklyn, N. Y. Air and steam trap	286,446	Oct. 9	836	226	25	162
Kelly, Joseph. (See Kelly, Henry and J.)						
Kelly, Michael, New York, assignor of one-half to W. F. Lett, Brooklyn, N. Y. Barbed-wire fence	283,614	Aug. 21	1377	385	24	761

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Kelly, Oliver S., *et al.* (See Green, George F., assignor.)						
Kelly, Patrick, Poughkeepsie, N. Y. Derrick	271,474	Jan. 30	2055	592	23	410
Kelly, Robert M., West Liberty, assignor of two-thirds to I. Brown, Zanesville, and E. C. Williams, Bellefontaine, Ohio. End-gate for wagons	280,187	June 26	1923	541	23	2475
Kelly Scroll Section Manufacturing Company. (See Kelly, George, assignor.)						
Kelly, Simon E., assignor of one-half to J. Pelletier, New Orleans, La. Folding kite	274,340	Mar. 20	1415	388	23	1093
Kelly, Thomas, *et al.* (See Kelly, John, assignor.)						
Kelly, William. (See Heffner and Kelly.)						
Kelly, William, Scottdale, Pa. Cinder-car	274,786	Mar. 27	1982	551	23	1199
Kelly, William, Sarinac, assignor to J. L. Pitts, Grand Rapids, Mich. Saw-swage	279,251	June 12	792	219	23	2269
Kelly, William B. (See Kelly, Daniel, assignor.)						
Kelly, William E., Rockville, Pa. Gymnastic chair	284,024	Aug. 28	1905	534	24	868
Kelly, William H., *et al.* (See Ryan, Patrick, assignor.)						
Kelly, William H., New York, N. Y. Lawn-pool apparatus	278,341	May 29	2280	623	23	2046
Kelsall, William G. (See Mountford and Kelsall.)						
Kelsey, Edward J., *et al.* (See Pfaudler, John M., assignor.) (Reissue.)						
Kelsey, Frederick E., Cleveland, Ohio. Cigar-bunching machine	281,517	July 17	1474	405	24	272
Kelsey, Loren G., Marilla, N. Y. Potato-digger	275,669	Apr. 10	1049	285	23	1414
Kelsey, Rollin E., Corunna, Mich. Necktie-fastener	278,342	May 29	2281	623	23	2047
Kelsey, Rollin E., and C. H. Shuttleworth, Corunna, Mich. Separable button	270,593	Jan. 16	948	274	23	203
Kelso, John S., Jr. (See Benson, George T., assignor.)						
Kelso, John S., Jr., Stamford, Conn. Incandescing electric lamp	273,366	Mar. 6	170	46	23	863
Kelton, John C., San Francisco, Cal. Gun-sight	280,484	July 3	187	49	24	35
Kemery, George W., Angola, Ind. Cloth reeling and measuring machine	273,690	Mar. 6	578	154	23	933
Kemmerling, Charles, Scranton, Pa. Revolving stove-grate	283,790	Aug. 28	1604	453	24	815
Kemp, Francis E., and E. A. Mock, Jessup, Ga. Cotton-chopper	276,599	May 1	71	19	23	1640
Kemper, George W., and J. B. Cartwright, Goodlettsville, Tenn. Grain-cradle	271,335	Jan. 30	1867	541	23	376
Kempner, Simon, Buffalo, N. Y. Stock indicator for manufacturers	271,865	Feb. 6	339	93, 94	23	500
Kempshall, Eleazer, New Britain, Conn. Button-fastener	282,903	Aug. 7	510	143	24	591
Kempshall, Eleazer, New Britain, Conn. Sash-fastener	283,896	Aug. 28	1724	486	24	835
Kempshall Manufacturing Company. (See Sparks, William E., assignor.)						
Kempson, Frank K., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Traveling crane	279,765	June 19	1420	397	23	2380
Kempster, Daniel E., Boston, Mass. Spring shade-roller	286,308	Oct. 9	669	179	25	131
Kempster, Daniel E., assignor to G. W. Smith, Boston, and B. F. Smith, Somerville, Mass. Hand drilling-machine	289,110	Nov. 27	1650	458	25	819
Kendall, Edward, Cambridgeport, Mass. Apparatus for heating air or condensing steam	272,886	Feb. 27	1670	467	23	754
Kendall, Edward D., Brooklyn, N. Y. Process of and apparatus for preparing petroleum jelly	284,437	Sept. 4	338	94	24	960
Kendall, Edward D., Jersey City, N. J., assignor to American Coal Tar Color Company of New York. Writing-ink	273,240	Feb. 27	2096	.....	23	828
Kendall, Francis B., assignor of one-fourth to J. B. Clark, Monmouth, Ill. Corn-planter check-rower	279,766	June 19	1422	397	23	2381
Kendall, Frank H., and F. W. Ladd, Windsor, Vt. Wick-tube for oil-burners	283,255	Aug. 14	942	263	24	675
Kendall, Franklin B., Tumwater, Wash. Ter. Privy	290,776	Dec. 25	1791	494	25	1224
Kendall, George W., and C. Kruse, New York, N. Y. Check registering and printing apparatus	286,019	Oct. 2	293	82	25	55
Kendall, George W., and C. Kruse, New York, N. Y.; said Kendall assignor to said Kruse. Printing-machine	287,383	Oct. 23	2026	551	25	386
Kendall, John L., Brooklyn, assignor of one-half to Heimann & Wall, New York, N. Y. Head-covering	275,670	Apr. 10	1051	286	23	1414
Kendall, Oscar W., Olmsted, Ohio. Process of and device for stowing and curing grain, hay, &c	288,243	Nov. 13	563	156	25	614
Kendall, William, Logansport, Ind. Portable bath	283,117	Aug. 14	769	216	24	644
Kendrick, Alonzo, and E. L. Jerauld, Harwich, Mass. Apparatus for extracting oil from cods' livers	275,828	Apr. 17	1258	346	23	1456
Kenfield, William, and H. M. Stilwell, assignors to I. Stilwell, Rochester, N. Y. Bicycle-lock	276,600	May 1	71	20	23	1640
Kengel, Joseph, Detroit, Mich. Side-spring vehicle	273,289	Mar. 6	54	16	23	844
Kengel, Joseph, Detroit, Mich. Vehicle-spring	278,971	June 5	436	119	23	2197
Kenison, Orrin W., Lawrence, Mass. Cloth-holding roller for looms	277,742	May 15	1501	407	23	1896
Kenna, Charles P. (See Kenna, Joseph W., assignor.)						
Kenna, Joseph W., assignor to C. P. Kenna, Chicago, Ill. Nursery-chair	283,405	Aug. 21	1133	320	24	717
Kennan, Sidney T., assignor to Webster Manufacturing Company, Menasha, Wis. Sanding or polishing machine for carriage-spokes	286,707	Oct. 16	1170	315	25	227
Kennedy, Albert H., Rockport, Ind. Geometrical block	270,225	Jan. 9	475	139 140	23	103
Kennedy, Albert H., Rockport, Ind. Belt-gearing	287,297	Oct. 23	1924	526	25	368
Kennedy, Albert J., Athens, Pa. Carpet-stretcher	286,708	Oct. 16	1173	315	25	228
Kennedy, Charles, Philadelphia, Pa. Belt-tie	283,491	Aug. 21	1241	348	24	736
Kennedy, David P. (See Farley, Michael, assignor.)						
Kennedy, De Lancy, New York, N. Y. Bicycle	287,943	Nov. 6	194	56, 57	25	541
Kennedy, Emmett L. (See Smelser and Kennedy.)						
Kennedy, Frank, Grand Blanc, Mich. Automatic tilting gate	271,336	Jan. 30	1868	542	23	377
Kennedy, George F., Houston, Tex. Plow	279,252	June 12	793	219	23	2269
Kennedy, James, Kingston, Jamaica. Machine for obtaining fiber and for other purposes	275,920	Apr. 17	1368	377	23	1476
Kennedy, James, Strabane, county of Tyrone, Ireland. Fire-escape	288,448	Nov. 13	834	226	25	660
Kennedy, James H., Iona Station, and T. P. Hall, Toronto, Ontario, Canada. Switch-operator	288,577	Nov. 13	992	273	25	689
Kennedy, John, Montreal, Quebec, Canada. Elevator dredging-machine	279,570	June 19	1201	332	23	2342
Kennedy, John J., West Hoboken, N. J. Glove	279,955	June 26	1661	467	23	2428
Kennedy, Jophanus H., New Vineyard, Me. Bolt-cutter	274,499	Mar. 27	1639	456	23	1138
Kennedy, Joseph B., assignor of one-half to J. M. Almon, Princeton, Ind. Fire-escape	275,772	Apr. 10	1182	324 325	23	1436
Kennedy, Kenneth, Kenyon, Ontario, Canada. Dumping-wagon	289,660	Dec. 4	358	101	25	950
Kennedy, Lewis B., Keokuk, Iowa. Brick-machine	280,316	June 26	2091	588	23	2505
Kennedy, Michael, Troy, N. Y. Automatic car-coupling	285,906	Oct. 2	163	46, 47	25	32
Kennedy, Samuel A., assignor of four-fifths to C. T. and H. M. Evans, Xenia, Ill. Weather-boarding gage and clamp	285,137	Sept. 18	1213	341	24	1125
Kennedy, Thomas H., assignor of three-fourths to J. A. Ankrom and W. C. Barton, New Plymouth, Ohio. Saw-mill dog	277,841	May 15	1621	442	23	1918
Kennelly, Patrick, Bridgeport, Conn. Protractor	285,907	Oct. 2	165	47	25	32
Kenner, Charles, St. Mary's, Mo. Double-shovel plow	270,812	Jan. 16	1220	352	23	254

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Kennett, John R., Geddes, N. Y. Tool-holder for grinding tools	271,249	Jan. 30	1751	506	23	357
Kenney, Daniel T. (See Bauer and Kenney.)						
Kennish, William, New York, N. Y. Atomizer	282,090	July 31	2212	608	24	408
Kenniah, William, New York, assignor to C. B. Dickinson, Brooklyn, N. Y. Tube-valve	274,447	Mar. 20	1555	426	23	1117
Kent, Alexander W., assignor to A. Robinson, Bloomingdale, N. J. Separating foreign substances from india-rubber waste	281,769	July 24	1808	494	24	334
Kent, Artemas A., Denver, Colo. Ore-concentrator	280,934	July 10	743	207	24	137
Kent, Nelson N. (See Morgan and French, assignors.)						
Kent, William, Allegheny, Pa., assignor of one-half to J. Scott, Jersey City, N. J. Blast-furnace	273,742	Mar. 13	647	172	23	953
Kenton, James, Urbana, Ohio. Harrow	273,105	Feb. 27	1931	541	23	799
Kenyon, Charles H., South Glen's Falls, N. Y. Band-shaper for shirts	290,062	Dec. 11	855	243	25	1044
Kenyon, George H., Homer, N. Y. Hop-pole	286,309	Oct. 9	670	179	25	132
Kenyon, James. (See Garland and Kenyon.)						
Kenyon, Orrin P., Wakefield, R. I. Paper-bag holder	272,263	Feb. 13	844	235	23	599
Kepler, Martin, Deedsville, Ind. Device for upsetting and restoring screw-threads	289,271	Nov. 27	1837	507	25	854
Kerby, George M., Bolivar, Tex. Draft-equalizer	272,706	Feb. 20	1414	396	23	702
Kern, Alfred. (See Caro and Kern.)						
Kern, Alfred, Basle, Switzerland, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of dye-stuff or coloring-matter	290,891	Dec. 25	1932	.....	25	1249
Kern, Alfred, Basle, Switzerland, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of purple dye-stuff	290,892	Dec. 25	1933	.....	25	1249
Kern, Alfred, Basle, Switzerland, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Manufacture of dye-stuff or coloring-matter	290,893	Dec. 25	1935	.....	25	1249
Kern, Xavier, Jr., and J. Hammer, West Brookfield, Ohio. Mining-machine	291,012	Dec. 25	2099	578, 579	25	1275
Kerner, Marion H., New York, N. Y. Stylographic fountain-pen	280,630	July 3	349	97	24	62
Kerner, Marion H., New York, N. Y., and C. L. Downes, Jersey City, N. J.; said Downes assignor to said Kerner. Stylographic fountain-pen	276,425	Apr. 24	1999	554	23	1592
Kerns, Charles H., Port Byron, N. Y. Whiffletree-plate	283,615	Aug. 21	1378	385	24	762
Kerr, James, and J. Haworth, Church, county of Lancaster, England. Machine for printing fabrics	276,426	Apr. 24	2000	554	23	1592
Kerr, Joseph, *et al.* (See Jones, Richard F., assignor.)						
Kerr, Thomas B. (See Barr, Charles H., assignor.)						
Kerr, Thomas B. (See Finney, Joseph R., assignor.)						
Kerr, Thomas B. (See Ford, John C., assignor.)						
Kerr, Thomas B. (See Oliver, James B., assignor.)						
Kerr, Thomas B. (See Stubbe, John, assignor.)						
Kershaw, Arnold W., Lancaster, county of Lancaster, England. Apparatus for ventilating buildings and chimney-stacks	281,082	July 10	914	255	24	169
Kershner, Rebecca, Ansonia, Ohio. Spring-pillow	283,616	Aug. 21	1379	385	24	762
Kersten, Henry C. (See Schüssler and Kersten.)						
Keseberg, Peter H., Hamburg, Germany. Spring bed-bottom	275,497	Apr. 10	830	225	23	1376
Kessler, Henry, San Francisco, Cal. Steam-actuated valve	290,063	Dec. 11	856	243	25	1044
Kessler, Johann K., assignor of one-half to F. Sillor, Milwaukee, Wis. Production of glycerine from the mother-liquor of soap-factories	277,575	May 15	1315	.....	23	1863
Kessler, Louis, Ludington, Mich. Fishing apparatus	281,083	July 10	915	256	24	169
Kessler, Paul O., Darien, Ga. Cartridge-shell	283,118	Aug. 14	770	217	24	644
Kessler, Paul O., Darien, Ga. Powder-flask	288,066	Nov. 6	343	96	25	566
Kester, John, Clay City, Ind. Cultivating-plow	272,962	Feb. 27	1752	489	23	767
Ketcham, Charles A., Cold Spring, Ind. Animal-trap	285,754	Sept. 25	1957	554	24	1265
Ketcham, John G., Coldwater, Mich. Paving composition	277,743	May 15	1502	.....	23	1896
Ketcham, John G., Coldwater, Mich. Paving composition. (Reissue)	10,414	Nov. 27	1974	.....	25	880
Ketchledge, James T., and R. J. Pepper, Sidney, Ohio; said Ketchledge assignor to said Pepper. Level	277,842	May 15	1622	442	23	1918
Ketchum, Everett H., Riceville, Pa. Saw-setting device	287,835	Nov. 6	55	16, 17	25	517
Ketchum, Joseph, Jr. (See Dunlap and Ketchum.)						
Kettell, James F., Worcester, Mass. Electric clock-setting mechanism	290,894	Dec. 25	1936	533, 534	25	1249
Kettering, Edward, Jefferson City, Mo. Harness-pad	277,291	May 8	974	262	23	1800
Keuffel & Esser. (See Weidenmann, Jacob, assignor.)						
Key, Erasmus H., Mayfield, Ky. Bee-hive	273,691	Mar. 6	580	154	23	933
Key Inclined Plane Fire Escape Company. (See Key, Minter P., assignor.)						
Key, Minter P., Memphis, Tenn., assignor to Key Inclined Plane Fire Escape Company, Washington, D. C. Fire-escape	279,955	Jan. 23	1402	404	23	290
Keys, Erasmus L., assignor to Muncie Washing Machine Company, Muncie, Ind. Washing-machine	274,946	Apr. 3	81	22	23	1239
Keys, Thomas, Chicago, Ill. Coffee-pot	281,373	July 17	1292	358	24	241
Keys, William A. (See Lockwood and Keys.)						
Keys, William A., and J. Lockwood, New York, N. Y. Necktie-holder	277,905	May 22	1701	464	23	1939
Keyser, John H., New York, N. Y. Gas heating and cooking stove	276,049	Apr. 17	1520	418	23	1502
Kibbe, Herbert W., Utica, N. Y. Calendar	285,138	Sept. 18	1214	341	24	1126
Kibbe, Isaac P. (See Rutherford, Robert W., assignor.)						
Kibbe, William A., Leavenworth, Kans. Striping device for painters	279,767	June 19	1422	398	23	2381
Kichline, William E., assignor of one-half to A. Stout, Bethlehem, Pa. Machine for curving railway-rails	279,394	June 12	990	275	23	2300
Kidd, James E., Stockton, assignor of one-half to J. Duffy, San Francisco, Cal. Sample-exhibitor for wall-papers	285,755	Sept. 25	1958	554	24	1265
Kidd, Michael F., Baltimore, Md. Automatic door for elevator-hatchways	281,632	July 17	1616	442	24	294
Kidder, Charles E., Aurora, Ill. Whisk-broom holder	272,446	Feb. 20	1082	305	23	644
Kidder, Jephther P., Philmont, assignor of one-half to G. W. Mosely, Hudson, N. Y. Knitting-machine	274,947	Apr. 3	82	22, 23	23	1239
Kidder, Wellington P., Malden, Mass. Combination of drawing-tablet and instrument-case	284,131	Aug. 28	2038	566	24	891
Kiefer, Charles C., Urbana, Ohio. Street-lamp	275,219	Apr. 3	433	119	23	1300
Kiefer, Martin W., Helfenstein, Pa. Harvester cutter-bar	288,342	Nov. 13	692	191	25	636
Kieffer, John C. (See Harry and Kieffer.)						
Kiekenapp, Friedrich. (See Peavey and Kiekenapp.)						
Kiekenapp, Frederick, Faribault, Minn. Supplemental pocket for pool and billiard tables	281,518	July 17	1477	405	24	272
Kiel, Adolphus E., Montrose, Iowa. Washing-machine	290,064	Dec. 11	857	243	25	1044
Kieley, Timothy J., New York, N. Y. Apparatus for returning and feeding water to boilers	273,367	Mar. 6	171	47	23	863
Kienardt, John A., assignor of two-thirds to F. Wogaman and W. F. Patterson, Dayton, Ohio. Bed-spring	277,136	May 8	797	209	23	1768
Kientoff, August W., Dallas, Oreg. Chronometer-escapement	283,349	Aug. 14	1059	297	24	698
Kientoff, William F., Englewood, Ill. Tucking attachment for sewing-machines	290,065	Dec. 11	857	244	25	1045

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Kienzle, John G., assignor to G. F. Hensel, Philadelphia, Pa. Corset fabric	281,519	July 17	1477	405	24	273
Kierstein, Hermann. (See Gunther, George A., assignor.)						
Kiggins and Tooker Company. (See Hemphill, Edward A., assignor.)						
Kihneman, Theodor, New Orleans, La. Brush for cotton-gins	273,692	Mar. 6	581	154	23	933
Kilborn, Alden D., Tucson, Ariz. Ter. Safety-valve	274,787	Mar. 27	1984	552	23	1199
Kilborn, Alden D., and W. F. Smith, Tucson, Ariz. Ter. Car-brake	270,440	Jan. 9	747	219	23	155
Kilbourn, Edward, Jamestown, Wis. Treadle	275,829	Apr. 17	1260	346	23	1456
Kilburn, Benjamin W., Littleton, N. H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Photographic camera	286,447	Oct. 9	837	227	25	163
Kilburn, Cheney. (See Kimball and Kilburn.)						
Kilcullen, Patrick P., St. Louis, Mo. Device for turning fly-wheels of engines, &c	279,652	June 19	1296	360	23	2358
Killgore, Charles, assignor to I. W. Killgore, Utica, N. Y. Machine for compressing dry and plastic materials	276,828	May 1	379	101	23	1692
Killgore, Ida W. (See Killgore, Charles, assignor.)						
Killingworth, Wesley T., Augusta, Ga. Ague remedy	282,091	July 31	2212	.....	24	408
Killion, Michael J. (See Milligan and Killion.)						
Killion, William. (See Milligan and Killion, assignors.)						
Killip, John, Allegheny, assignor to Bair & Gazzam, Pittsburg, Pa. Coupling for shafting	280,188	June 26	1924	541	23	2475
Kilmer, Irving A., Schnectady, N. Y. Bale-tie	282,991	Aug. 14	608	172	24	616
Kilner, George T., Providence, R. I. Combined clasp and button	276,427	Apr. 24	2002	555	23	1593
Kilroy, John O., Albany, N. Y. Tobacco-pipe	286,020	Oct. 2	296	82	25	55
Kilshaw, John, St. Paul, Minn. Heating-stove	273,106	Feb. 27	1932	541	23	799
Kilts, Christopher C., Hannibal, Mo. Car-door	273,290	Mar. 6	55	16	23	844
Kimball, Alonzo S., Worcester, Mass. Dynamo-electric machine	288,818	Nov. 20	1295	354 355	25	747
Kimball, Benjamin B. (See Lindsey, William M., assignor.)						
Kimball, Benjamin P., Elmore, Ohio. Fastening for overshoes	272,887	Feb. 27	1672	467	23	755
Kimball, Charles E., Leadville, Colo. Cut-off-valve gear	279,253	June 12	794	220	23	2269
Kimball, Charles M., assignor to himself and J. M. Wheeler, Toledo, Ohio. Top	272,707	Feb. 20	1414	397	23	702
Kimball, Frank H., assignor of one-half to A. M. Johnston, Rockford, Ill. Starch-separator	275,340	Apr. 3	602	162	23	1328
Kimball, George A., and L. H., Davis City, Pa. Deep-well pump	271,062	Jan. 23	1556	448	23	316
Kimball, George P., San Francisco, Cal. Two-wheeled vehicle	272,557	Feb. 20	1221	341	23	668
Kimball, Handley B., and C. S. Barrett, assignors of one-third to J. Morey, Charlotte, Mich. Fire-escape	283,617	Aug. 21	1380	386	24	702
Kimball, Henry H. (See Perry and Kimball.)						
Kimball, Henry H., and C. E. Perry, Bloomington, Ill. Wrist-pin lubricator	273,856	Mar. 13	804	217	23	980
Kimball, Hiram, Cleveland, Ohio. Die for the manufacture of turn-buckles	285,275	Sept. 18	1368	386	24	1155
Kimball, Hiram, Cleveland, Ohio. Die for the manufacture of turn-buckles	285,276	Sept. 18	1370	386	24	1155
Kimball, Hiram A., Philadelphia, Pa. Machine for coupling butt-joints of splints	276,142	Apr. 17	1637	451	23	1523
Kimball, Hiram A., Philadelphia, Pa. Tool for dressing stone	279,488	June 12	1098	303	23	2317
Kimball, Hiram A., and C. Kilburn, Philadelphia, Pa.; said Kimball assignor to said Kilburn. Tilting and revolving chair	270,081	Jan. 2	295	88	23	60
Kimball, Lauron H. (See Kimball, George A. and L. H.)						
Kimball, Peter, Cleveland, Ohio. Producing fruit on barren fruit-trees and changing their bearing-years	270,226	Jan. 9	476	140	23	103
Kimball, Samuel H. (See Somes and Kimball.)						
Kimball, Samuel P., Woodstock, Ohio. Combined roller and harrow	287,836	Nov. 6	56	17	25	517
Kimball, Stephen H., Everett, Mass. Velocipede	278,972	June 5	437	119	23	2198
Kimball, Thomas, Chicago, Ill. Shirt	277,744	May 15	1503	407	23	1896
Kimball, William B., assignor to E. Howe & Co., Peterborough, N. H. Truss	288,945	Nov. 20	1447	399	25	776
Kimball, William H., Boston, Mass. Self-extinguishing lamp	289,843	Dec. 11	594	165	25	998
Kimbark, Seneca D. (See Curtis, George S., assignor.)						
Kimble, Andrew, Moundsville, W. Va. Wagon-axle	274,341	Mar. 20	1416	398	23	1093
Kimble, James E., Vicksburg, Mich. Grain weigher and measure	290,066	Dec. 11	859	244	25	1045
Kimmel, William, Milton, Ind. Gang-plow	279,768	June 19	1423	398	23	2381
Kimplen, Cornelius, assignor to himself and Northwestern Fertilizing Company, Chicago, Ill. Crushing and grinding machine	281,887	July 24	1956	534 535 536	24	360
Kimplen, Cornelius, assignor to himself and Northwestern Fertilizing Company, Chicago, Ill. Desiccating-machine	281,888	July 24	1960	536	24	360
Kindermann, August, Cleveland, Ohio. Vapor-burner	288,343	Nov. 13	693	191	25	636
Kindle, John. (See Gump, Alexander, assignor.)						
King, Alfred. (See Abel, William G., assignor.)						
King, Alfred, *et al.* (See Locke, Stephen F., assignor.)						
King, Alfred T., Nottingham, England. Bottle-stopper	284,561	Sept. 4	486	137	24	987
King, Amos B., Lake View, Ill. Car-door	271,337	Jan. 30	1869	542	23	377
King, Charles A., Meriden, Conn. Machine for turning gun-barrels	287,548	Oct. 30	2236	607	25	435
King, Charles C., Shelby, Ohio. Vehicle-spring	282,904	Aug. 7	512	143	24	591
King, Edwin A. (See Randel and Sims, assignors.)						
King, Francis M., Wilmington, N. C. Combined fertilizer-distributer and seeder	284,562	Sept. 4	487	137	24	987
King, Frank. (See Beeman, Taylor, and King.)						
King, Frank. (See Taylor and King.)						
King, George W., New York, N. Y. Harvester-knife grinder	285,492	Sept. 25	1629	457	24	1206
King, George W., assignor to W. W. King and C. E. Coburn, Chicago, Ill. Harvester-knife grinder	270,548	Jan. 9	887	257	23	183
King, Gideon, Eminence, Ky. Swinging gate	272,061	Feb. 13	595	161	23	555
King, Henry T., Falkland, N. C. Manure-drill	281,191	July 10	1055	291	24	193
King, Herbert, Des Moines, Iowa. Tile-laying plow	288,344	Nov. 13	695	191	25	636
King, Hezekiah O., Greenville, S. C., assignor to G. T. Raoul, New Orleans, La. Ice-cream freezer	273,107	Feb. 27	1932	541	23	799
King, Hiram T., Rochester, N. Y. Sash-fastener	276,050	Apr. 17	1522	418	23	1503
King, Hiram T., Rochester, N. Y. Sash-fastener	280,935	July 10	746	208	24	137
King, Israel C., *et al.* (See Corbin, Elijah H., assignor.)						
King, Jabez W., and S. W. Goodwin, Toledo, Ohio. Portfolio	287,030	Oct. 23	1584	436	25	306
King, Jacob, Indianapolis, Ind. Gearing for grain-drills	270,317	Jan. 9	578	170	23	123
King, James A., and J. Little, Dublin, Ireland. Furnace for the manufacture of glass	279,254	June 12	795	220	23	2269
King, Jeremiah J., New York, N. Y. Mat-lock	274,788	Mar. 27	1985	552	23	1200
King, Jesse H., Shane's Crossing, Ohio. Extension-table	277,576	May 15	1316	353	23	1863
King, John W., Lambertville, N. J. Safety-elevator	287,549	Oct. 30	2238	608	25	436
King, Josias R., assignor of one-half to R. W. Johnson and N. Myrick, St. Paul, Minn. Combined paper-weight, calendar, and pen-rack	288,065	Nov. 6	343	96	25	566
King, Morris, Gloversville, N. Y. Glove	272,384	Feb. 13	1002	280	23	625
King, Oliver C. (See Flynn, William V., assignor.)						
King, Peter, Springfield, Ohio. Pulley-block	286,021	Oct. 2	297	83	25	55

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
King, Robert L., Flint, Mich. Packing-ring for piston-rods	285,139	Sept. 18	1215	341	24	1126
King, Robert T., Columbus, Ohio. Brake-shoe	275,830	Apr. 17	1260	346	23	1457
King, Robert T., Columbus, Ohio. Machine for making split keys	277,577	May 15	1317	353	23	1864
King, Samuel M., Lancaster, Pa. Rotary shingle-planing mill	281,520	July 17	1478	406	24	273
King, Sidney D., Pittston, Pa. Dumping-car	278,343	May 29	2282	624	23	2047
King, Sidney D., assignor of five-eighths to G. B. Thompson, Pittston, and C. D. Simpson, Scranton, Pa. Side bearing for railway-cars	273,693	Mar. 6	582	155	23	933
King, Thomas, Providence, R. I. Bracelet	285,041	Sept. 18	1096	306	24	1106
King, Thomas D., Montreal, Quebec, Canada. Balances	274,202	Mar. 20	1225	337	23	1060
King, Wendell R. (See Bogle, Walter S., assignor.)						
King, William A., Cleveland, Ohio. Fire-escape	285,756	Sept. 25	1959	554	24	1265
King, William T., Cambridgeport, Mass. Automatically releasing safety-valve weights	288,710	Nov. 20	1161	319	25	724
King, William W., *et al.* (See King, George W., assignor.)						
Kingman, Henry, *et al.* (See Odell, Levi J., assignor.)						
Kingsford, Thomas P., Oswego, N. Y. Manufacture of starch from wheat, corn, &c.	280,044	June 26	1774	.....	23	2448
Kingsford, Thomas P., Oswego, N. Y. Manufacture of dextrine, glucose, maltose, and grape-sugar	280,045	June 26	1775	.....	23	2448
Kingsland, Jacob D. (See Wills and Kingsland.)						
Kingsland, Philip S., Chicago, Ill. Steam pumping-engine	272,264	Feb. 13	845	235	23	599
Kingsland, Samuel, Omaha, Nebr. Milk-pan	286,310	Oct. 9	671	179	25	132
Kingsley, George, Leavenworth, Kans. Steam-boiler	282,330	July 31	2531	693	24	461
Kingsley, Horace L., Racine, Wis. Road-cart	284,132	Aug. 28	2038	567	24	891
Kingsley, Willey J. P., Rome, N. Y. Steam-boiler	289,661	Dec. 4	359	101	25	950
Kingston, Edward S., Little Falls, N. Y. Last for boots and shoes	273,108	Feb. 27	1933	542	23	799
Kingston, Frank, Deptford, county of Kent, England. Stair-rod securer	271,083	Jan. 23	1558	448	23	316
Kingwill, John F., Chicago, Ill. Spring-scale	282,645	Aug. 7	205	59	24	535
Kingzett, Charles T., 17 Landsdowne Road, Tottenham, and M. Zingler, 19 Buckland Crescent, Belsize Park, county of Middlesex, England. Production of disinfectants	274,789	Mar. 27	1986	.....	23	1200
Kingzett, Charles T., 17 Lansdowne Road, Tottenham, and M. Zingler, 19 Buckland Crescent, Belsize Park, county of Middlesex, England. Disinfectant	281,521	July 17	1479	.....	24	273
Kinkead, James H., assignor of one-half to P. Evans, Reno, Nev. Ore crusher and pulverizer	277,578	May 15	1319	354	23	1864
Kinn, Friedrich, New York, assignor, by mesne assignments, to E. Sanders, Brooklyn, N. Y. Fan	278,799	June 5	167	49	23	2151
Kinne, Erastus M., Auburn, N. Y. Buckle	270,227	Jan. 9	476	140	23	104
Kinnear, Peter, *et al.* (See Strong, Levi C., assignor.)						
Kinney, Cyrus, Windsor, Ontario, Canada, assignor to himself and J. M. Welch, Detroit, Mich. Knife-scourer	273,368	Mar. 6	172	47	23	863
Kinney, Israel, Windsor, Ontario, Canada. Pipe-cutter	271,250	Jan. 30	1752	507	23	357
Kinney, Marshal J., *et al.* (See Jensen, Mathias, assignor.)						
Kinney, Simon, Port Townsend, Wash. Ter. Saw-swage	279,769	June 19	1425	398	23	2381
Kinnier, Adelia. (See Kinnier, George, Jr., assignor.)						
Kinnier, George, Jr., assignor to A. Kinnier, Baltimore, Md. Controlling-strap for harness	284,563	Sept. 4	488	137	24	987
Kinsey, William E. (See Sonier, Frank, assignor.)						
Kinsley, Edwin. (See Bushorr, Dorrick J., assignor.)						
Kinsman, Frank E., New York, N. Y. Electric time-register for telephone and telegraph switches	276,184	Apr. 24	1688	466	23	1540
Kinsman, Frank E., New York, N. Y. Apparatus for protecting telephonic and telegraphic instruments	283,492	Aug. 21	1242	349	24	736
Kinsman, John H., Rye, N. Y. Telephonic apparatus	288,449	Nov. 13	835	{226 / 227}	25	661
Kinyon, D. Randolph, assignor of one-half to J. C. Kinyon, Raritan, N. J. Friction-clutch	281,700	July 24	1715	466	24	317
Kinyon, Job C. (See Kinyon, D. Randolph, assignor.)						
Kinzel, Lafayette, Cincinnati, Ohio. Ladder attachment	274,448	Mar. 20	1555	426	23	1117
Kinzel, Lafayette, Cincinnati, Ohio. Combined clamp-handle and wrench for hose	283,714	Aug. 21	1501	423	24	785
Kipling, Richard A., Roselle, N. J. Charm-compass frame	272,265	Feb. 13	846	235	23	599
Kipling, Ste. E. E. (See Lançon, Gédéon, assignor.)						
Kipp, August E., assignor to Holden Manufacturing Company, Dayton, Ohio. Blank book	276,601	May 1	72	20	23	1640
Kipp, H. A. (See Wells, Philip F., assignor.)						
Kipp, Mary H. (See Rix, Benjamin F., assignor.)						
Kirby, James J., Clinton, Iowa. Automatic friction feeding device for drilling and boring machines	290,242	Dec. 18	1077	301	25	1093
Kirby, John, Jr. (See Yoe and Kirby.)						
Kirby, John, Jr., Ludlow, Ky., assignor to Post & Co., Cincinnati, Ohio. Coupling-ring for lamps	271,866	Feb. 6	340	94	23	500
Kirby, John, Jr., Ludlow, Ky., assignor to Post & Co., Cincinnati, Ohio. Berth-lock for sleeping-cars	271,867	Feb. 6	341	94	23	500
Kirby, John, Jr., Ludlow, Ky., assignor to Post & Co., Cincinnati, Ohio. Lamp	274,003	Mar. 13	975	267	23	1009
Kirby, John, Jr., Ludlow, Ky., assignor to Post & Co., Cincinnati, Ohio. Signal for locomotive head-lights	276,428	Apr. 24	2002	555	23	1593
Kirby, John, Jr., Ludlow, Ky., assignor to Post & Co., Cincinnati, Ohio. Sleeping-car pump-joint	281,192	July 10	1056	291	24	194
Kirby, John, Jr., Ludlow, Ky., assignor to Post & Co., Cincinnati, Ohio. Lamp	281,633	July 17	1618	442	24	295
Kirby, John, Jr., Ludlow, Ky., assignor to Post & Co. Knob attachment	281,701	July 24	1716	466	24	317
Kircben, William, Chicago, Ill. Horseshoe	272,963	Feb. 27	1753	490	23	767
Kirk, David, assignor of one-half to H. C. Kirk, Phelps, N. Y. Pole-ring for harness	274,615	Mar. 27	1783	495	23	1164
Kirk, Edward, Oswego, N. Y. Treatment of caustic soda	275,498	Apr. 10	831	.....	23	1377
Kirk, Eli, Clarksville, Ohio. Car-coupling	282,734	Aug. 7	318	91	24	556
Kirk, George H., Philadelphia, Pa. Candle	276,602	May 1	72	20	23	1640
Kirk, George W., Washington, D. C. Gold washer and amalgamator	270,813	Jan. 16	1222	352	23	254
Kirk, Hyland C. (See Kirk, David, assignor.)						
Kirk, Joseph L., Pittsburg, Pa. Ticket-case	272,708	Feb. 20	1415	397	23	702
Kirk, Peter, Workington, county of Cumberland, England. Rolling-mill	270,441	Jan. 9	748	219	23	155
Kirk, W. Ranson, assignor of one-half to W. J. Moore, Fort Scott, Kans. Steam-boiler	279,395	June 12	993	276	23	2300
Kirk, W. Ranson, assignor of one-half to W. J. Moore, Fort Scott, Kans. Steam-boiler	279,396	June 12	994	276	23	2301
Kirk, W. Ranson, assignor of one-half to W. J. Moore, Fort Scott, Kans. Apparatus for the construction of tunnels	290,989	Dec. 25	2070	570	25	1270
Kirk, William, Bridgeport, Conn. Lamp holder and bracket	273,857	Mar. 13	805	218	23	980
Kirkbride, Frederick L., Wyandotte, Kans., assignor of two-thirds to R. H. Drennon and W. C. Duvall, Kansas City, Mo. Grain-car door	279,255	June 12	796	220	23	2269
Kirkham, James, Milwaukee, Wis. Window-cleaner	275,921	Apr. 17	1370	377	23	1476
Kirkland, William P., San Francisco, Cal. Harrow attachment	284,307	Sept. 4	186	52	24	936
Kirkland, William P., assignor of six-tenths to D. Buck and A. B. Smith, San Francisco, Cal. Solar fruit-drier	281,084	July 10	916	256	24	169
Kirkland, William P., assignor to G. B. Davis, San Francisco, Cal. Slate-pencil sharpener	285,757	Sept. 25	1959	555	24	1265

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kirkpatrick, David M. (See Jackson and Kirkpatrick.)						
Kirkpatrick, David M., Kansas City, Mo. Safety-truck for railway-cars	272,267	Feb. 13	848	236	23	599
Kirkpatrick, Elijah, and S. Copron, Gilbert's Mills, Ohio. Ditching-spade	272,266	Feb. 13	847	236	23	599
Kirkpatrick, Thomas J., Springfield, Ohio. Bicycle-saddle	278,560	May 29	2541	693	23	2092
Kirkpatrick Thomas J., Springfield, Ohio. Bicycle-saddle	289,272	Nov. 27	1838	507	25	854
Kirksey, John R., Dysartville, N. C. Car-coupling	290,243	Dec. 18	1077	301	25	1093
Kirkwood, David, Boston, Mass. Breech-loading fire-arm	289,273	Nov. 27	1839	508	25	855
Kirkwood, Joseph S., McKeesport, Pa. Lifting-jack	272,837	Feb. 20	1588	446	23	733
Kirkwood, Robert G., Ellicott City, Md. Wind-wheel	278,561	May 29	2542	693	23	2093
Kirkwood, Thomas, Chicago, Ill. Grate for furnaces	277,491	May 15	1214	325	23	1847
Kirkwood, Thomas B. (See Crawford and Kirkwood.)						
Kirlin, Linden, White Cloud, Kans. Combined lister and drill	274,004	Mar. 13	976	268	23	1009
Kise, Samuel D. B., Kingwood, N. J. Cultivator	274,616	Mar. 27	1783	496	23	1164
Kiss, Emerick, New York, N. Y. Elevator-hatchway guard	282,905	Aug. 7	513	144	24	591
Kissam, Astor, Pimlico, county of Middlesex, England. Rotary motor	282,001	July 24	2089	573	24	383
Kistner, Harry U., Bordentown, N. J. Combination-tool	271,868	Feb. 6	342	94	23	501
Kitchen, William W., West Union, Iowa. Churn	283,199	July 31	2367	651	24	432
Kitselman, Alva L., assignor of one-half to D. M. Kitselman, Ridgeville, Ind. Roller-skate	279,489	June 12	1098	303	23	2317
Kitselman, Davis M. (See Kitselman, Alva L., assignor.)						
Kitson, George L. (See Philips and Kitson.)						
Kitson Machine Company. (See Kitson, Richard, assignor.)						
Kitson, Richard, assignor to Kitson Machine Company, Lowell, Mass. Cotton opener and lapper	272,709	Feb. 20	1416	397	23	703
Kitson, Richard, assignor to Kitson Machine Company, Lowell, Mass. Cotton-opener	289,004	Nov. 27	1519	420	25	796
Kitt, Nickolaus, and J. Schmadel, Cincinnati, Ohio. Caster for trunks	279,397	June 12	995	276	23	2301
Kittell, Ferdinand A., Pittsburg, Pa. Candelabrum	282,458	July 31	2694	740	24	490
Kittleson, Ole O., Lee, Ill., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass., and I. L. Ellwood, De Kalb, Ill. Barbed-wire machine	280,189	June 26	1925	541, 542	23	2476
Kittoe, George D., Kensington, county of Middlesex, England. Instrument for counting and registering the number of revolutions of a rotating shaft	279,095	June 5	596	162	23	2225
Kittredge, Charles, Indianapolis, Ind. Stapling-machine	282,533	Aug. 7	69	21	24	512
Kittson, Alfred B., Boston, Mass. Foot-power mechanism	285,819	Oct. 2	44	14, 15	25	10
Kittson, Alfred B., Boston, Mass. Foot-power machine	285,820	Oct. 2	45	15	25	10
Kitz, Ernest, assignor of one-half to J. W. Loeper, Indianapolis, Ind. Advertising device for cars	288,578	Nov. 13	994	274	25	689
Kitz, Jacob, Neuschleussig, near Leipsic, Germany. Machine for smoothing piano-keys	272,140	Feb. 13	695	190	23	572
Kitzmiller, Archibald. (See Darling and Kitzmiller.)						
Kivett, John. (See Lockwood and Kivett.)						
Kivitts, Charles, Bellevue, Iowa. Carrying-can and jacket	281,374	July 17	1292	358	24	241
Kizer, William R., Hammond, Ill. Umbrella-support	278,973	June 5	438	119	23	2198
Klahr, William, Myerstown, Pa. Bicycle	285,821	Oct. 2	46	15	25	10
Klaiber, Conrad, and A. Currier, Grand Rapids, Mich. Combined cigar clipper and perforator	289,351	Nov. 27	1939	539	25	874
Klapperich, John S., San Francisco, Cal. Fifth-wheel for vehicles	287,550	Oct. 30	2240	608	25	436
Klauber, Edward, Louisville, Ky. Box for photographic dry-plates	290,587	Dec. 18	1539	423	25	1172
Kleckner, Isaac F. (See Devore, Levi M., assignor.)						
Kleckner, Isaac F., *et al.* (See Kochsmeier, Henry P., assignor.)						
Klée, Federico, Guatemala, Central America. Coffee-drying apparatus	271,869	Feb. 6	343	95	23	501
Klein, Henry, Cincinnati, Ohio. Can-soldering tool	284,641	Sept. 11	586	165	24	1010
Klein, Josef, assignor of one-third to J. Fischl, New York, N. Y. Suspension-joint for chandeliers	285,277	Sept. 18	1371	386	24	1155
Klein, Joseph, assignor of one-half to A. Wisniewski and S. Krzeminski, New York, N. Y. Scaffold and fire-escape	284,308	Sept. 4	187	52, 53	24	936
Klein, Wilhelm. (See Hildenbrand, Klein, and Trumper.)						
Kleinert, Isaac B. (See Beard and Baldwin, assignors.)						
Kleinert, Isaac B., New York, N. Y. Dress-shield	287,298	Oct. 23	1925	526, 527	25	368
Kleinschmidt, Charles, Breckinridge, Colo., assignor to E. Kleinschmidt and C. Ambrasius, Cleveland, Ohio. Ore-concentrator	270,956	Jan. 23	1405	404	23	271
Kleinschmidt, Emilie, *et al.* (See Kleinschmidt, Charles, assignor.)						
Klemt, Adolf, New York, N. Y. Light for bakers' ovens	271,714	Feb. 6	152	42	23	466
Klenze, Carl F. (See Roehl, Carl, assignor.)						
Kley, Frederick, Fort Wayne, Ind. Box-fastener	280,749	July 3	501	142	24	89
Klima, Martin, Tabor, assignor of one-half to J. Charmock, Racine, Wis. Feed-cutter	279,096	June 5	597	162	23	2295
Klinck, E. Jay. (See Ross and Klinck.)						
Kline, John A., assignor of one-half to L. Buckwalter, Roger's Ford, Pa. Lock-hinge	288,345	Nov. 13	696	191	25	636
Kline, Joseph, Philadelphia, Pa. Pipe-joint	278,800	June 5	168	49	23	2151
Kline, Joseph C., Philadelphia, Pa. Ice-making machine	274,500	Mar. 27	1639	456	23	1139
Kline, Joseph C., Philadelphia, Pa. Condenser for ice-machines	288,450	Nov. 13	841	227	25	662
Kline, Lewis T., Alpena, Mich. Log-roller	278,022	May 22	1845	503	23	1962
Kline, Perry, *et al.* (See Harvey, Peter I., assignor.)						
Kline, Perry, *et al.* (See Wheelock, John A., assignor.)						
Kline, William. (See Shoupe and Buskirk, assignors.)						
Kling, Isaac, Louisville, Ky. Car-coupling	285,758	Sept. 25	1960	555	24	1265
Klinkerfues, Wilhelm, Göttingen, Germany. Hygroscope	275,220	Apr. 3	434	119	23	1300
Klinkner, Charles A., San Francisco, Cal. Hand-stamp	289,844	Dec. 11	595	165	25	998
Klinschmedt, William, Haddonfield, N. J. Clothes-rack	270,442	Jan. 9	749	220	23	155
Klipstein, Fredrick C., Fond du Lac, Wis. Sled	279,256	June 12	797	221	23	2270
Klixbüll, Sophus A. L., Copenhagen, Denmark. Life-preserver	271,870	Feb. 6	344	95	23	501
Kloberg, John C. (See Orttlöpp and Kloberg.)						
Kluge, Alexander, Chicago, Ill. Picture-hanger	271,715	Feb. 6	153	42	23	467
Klugh, Lewis E., and J. Hudson, Detroit, Mich. Hitching device	278,710	June 5	44	14	23	2139
Knab, Clovis, Houssigny, assignor to Société Anonyme Lorraine Industrielle, Nancy, France. Making sodium carbonate	287,551	Oct. 30	2240	.....	25	436
Knapp, Carey W., Geneva, Ohio. Rake	272,268	Feb. 13	848	236	23	600
Knapp, Charles H., assignor to himself and R. F. Wilson, Mansfield, Pa. Machine for preparing the soil for crops	275,773	Apr. 10	1183	325	23	1436
Knapp, Frank A. (See Conklin, Theodore F., assignor.)						
Knapp, Frank J. (See Ames, Josiah, assignor.)						
Knapp, George S., Chicago, Ill. Camp-chair	279,398	June 12	996	276	23	2301
Knapp, George S., Chicago, Ill. Folding table	283,119	Aug. 14	771	217	24	644
Knapp, George W., Baltimore, Md. Attaching handles to sheet-metal vessels	271,871	Feb. 6	344	95	23	501
Knapp, George W., Baltimore, Md. Lip for coffee-boilers	281,522	July 17	1480	406	24	273
Knapp, George W., Corning, N. Y. Car-coupling	280,381	July 3	51	14	24	11

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Dr'g.	Official Gazette. Vol.	Page.
Knapp, J. Jerome, South Gardner, Mass. Elevator-guard	278,974	June 5	439	120	23	2198
Knapp, John A., assignor of one-half to N. W. Strobridge, Cincinnati, Ohio. Advertising device	284,025	Aug. 28	1906	534	24	868
Knapp, John H., New York, N. Y. Pencil-case	271,872	Feb. 6	345	95	23	501
Knapp, John H., New York, N. Y. Pendant	286,545	Oct. 9	954	257	25	184
Knapp, Robert P., New York, N. Y. Umbrella or parasol	280,485	July 3	189	50	24	35
Knapp, Smith H., and A. E. Adams, Danbury, Conn. Electrical pilot-car for locomotives	280,046	June 26	1776	498	23	2448
Knapp, Smith H., and A. E. Adams, Danbury, Conn. Elevated wire-railway	282,200	July 31	2368	652	24	432
Knapp, Thomas K., Tiffin, Ohio. Bread and meat slicer	288,451	Nov. 13	842	227, 228	25	662
Knapp, William H., New Haven, Conn. Garment-stand	288,452	Nov. 13	842	228	25	662
Knapp, William H., New Haven, Conn. Garment-stand	290,990	Dec. 25	2071	570	25	1270
Knauss, Frank T., Scranton, Pa. Knockdown table	273,109	Feb. 27	1934	542	23	799
Knauth & Co. (See Geisler, Robert, assignor.)						
Knecht, John C., Sigel, Ill. Balanced slide-valve	282,906	Aug. 7	514	144	24	591
Kneeland, Charles L., Margaretville, N. Y. Milk-cooler	288,711	Nov. 20	1162	319	25	794
Kneeland, Julia A., Salem, Mass. Lady's head-wear protector	273,694	Mar. 6	583	155	23	934
Kneeland, Thomas T., Tecumseh, Mich. Wheat-huller	277,906	May 22	1702	465	23	1939
Knell, Andrew M., Ellicott City, Md. Seed-drilling harrow	290,344	Dec. 18	1079	301	25	1093
Knell, James W., Boston, Mass. Apparatus for producing illusory dramatic effects	277,137	May 8	798	209	23	1769
Knell, James W., Boston, Mass. Apparatus for producing illusory dramatic effects	286,709	Oct. 16	1174	315	25	228
Knibbs, James, Troy, N. Y. Automatic harness-suspender	274,501	Mar. 27	1641	456	23	1139
Knickerbocker, Henry N. (See Bennit, William, assignor.)						
Knieper, Julius L., *et al.* (See Hill, Andrew L., assignor.)						
Knieper, Julius L., *et al.* (See Koehler, Charles A., assignor.)						
Kniese, Frederick C., Baltimore, Md. Gas-making apparatus	283,897	Aug. 28	1724	486, 487	24	835
Knight, Clarence H. (See Mills and Knight.)						
Knight, Edward C., Philadelphia, Pa. Crushing attachment for centrifugal machines	272,710	Feb. 20	1417	397	23	703
Knight, Edward M., Liverpool, county of Lancaster, England. Knife-cleaning machine	285,278	Sept. 18	1372	387	24	1155
Knight, George A., Lamartine, Pa. Stable	285,759	Sept. 25	1961	555	24	1265
Knight, George F., Hickaville, Ohio. Saw-mill dog	272,838	Feb. 20	1589	446	23	734
Knight, George F., Carroll, Ohio. Washing-machine	281,523	July 17	1481	406	24	273
Knight, George H., *et al.* (See Harris and Evans, assignors.)						
Knight, George H. (See Parkhurst, Darius, assignor.)						
Knight, George H. (See Pilger and Knight.)						
Knight, George H. (See Renner and Knight.)						
Knight, George H. (See Thomas, William M., assignor.)						
Knight, George M., Adrian, Mich. Wheat and flour scale	277,292	May 8	975	262	23	1800
Knight, J. Lee, Topeka, Kans. Game-counter	274,005	Mar. 13	976	268	23	1009
Knight, John A., Auburn, Me. Vinegar-measure	288,946	Nov. 20	1448	399	25	776
Knight, John A., Marlborough, N. H., assignor to himself and R. H. Montgomery, West Plains, Mo. Rotary steam-engine	282,907	Aug. 7	514	144	24	592
Knight, John J., Widnes, county of Lancaster, assignor of one-half to T. Leech, Hough Green, Ditton, England. Preparation and production of mineral phosphates	276,143	Apr. 17	1638	.....	23	1523
Knight, John K., New York, and W. H. Baker, Brooklyn, N. Y.; said Knight assignor to said Baker. Electric interlocking railway signal and switch system	272,839	Feb. 20	1590	446, 447	23	734
Knight, Joseph. (See Austin, Dinsmore, assignor.)						
Knight, Joseph. (See Yeaw, Isaac H., assignor.)						
Knight, Josiah. (See McDowell, Samuel J., assignor.)						
Knight, Margaret E., and H. M. Macfarland, Ashland, Mass. Skirt-protector	282,646	Aug. 7	206	60	24	536
Knight, Octavius, *et al.* (See Harris and Evans, assignors.)						
Knight, Samuel, *et al.* (See Harris and Evans, assignors.)						
Knight, Walter H. (See Bentley and Knight.)						
Knight, Walter H., and E. M. Bentley, Washington, D. C. Electric way	276,829	May 1	380	101, 102	23	1693
Knight, William H. H., assignor to L. Abraham, Washington, D. C. Lead or crayon holder	270,661	Jan. 16	1059	303	23	223
Knight, William H. H., assignor of one-half to G. B. Abrams, Washington, D. C. Opera-chair	276,830	May 1	383	102	23	1693
Knight, William H. H., assignor to L. Abraham, Washington, D. C. Lead or crayon holder	277,138	May 8	799	210	23	1769
Knight, William H. H., assignor to L. Abraham, Washington, D. C. Lead or crayon holder	277,139	May 8	800	210	23	1769
Knipe, Oliver C., Norristown, Pa. Signal for cars and vessels	271,581	Jan. 30	2179	627	23	432
Knobeloch, John P., Philadelphia, Pa. Attaching springs	273,695	Mar. 6	584	155	23	934
Knoder, Henry F. (See Flood and Knoder.)						
Knoch, Charles, assignor to A. Lyons, New York, N. Y. Machine for making stitched trimmings and moldings	279,257	June 12	798	221, 222	23	2270
Knoepflin, John B., assignor of two-thirds to S. Mayer and L. Beckhardt, New York, N. Y. Ornamenting paper-hangings	271,201	Jan. 23	1697	490	23	338
Knollin, Thomas H., Syracuse, N. Y. Pipe-organ	273,369	Mar. 6	173	47	23	864
Knous, John, Hartford, Conn., assignor to Pope Manufacturing Company, Boston, Mass. Brake for velocipedes	279,956	June 26	1662	467	23	2428
Knous, John, assignor to Pope Manufacturing Company, Hartford, Conn. Pedal for velocipedes	281,889	July 24	1961	537	24	361
Knowles, Charles S., *et al.* (See Barbour, E. Russell, assignor.)						
Knowles, Edward R., assignor of one-half to B. A. Brooks, Brooklyn, N. Y. Dynamo-electric machine	282,459	July 31	2695	740, 741	24	490
Knowles, Edward R., assignor of one-half to B. A. Brooks, Brooklyn, N. Y. Incandescent electric lamp	282,460	July 31	2697	741	24	490
Knowles, Edward R., assignor of one-half to B. A. Brooks, Brooklyn, N. Y. Electric-arc lamp	282,461	July 31	2698	741	24	490
Knowles, Edward R., assignor of one-half to B. A. Brooks, Brooklyn, N. Y. Electric lamp	288,346	Nov. 13	697	192	25	636
Knowles, Edward R., Brooklyn, N. Y., and F. E. Idell, Hoboken, N. J. Armature for dynamo-electric machines	279,399	June 12	997	277	23	2301
Knowles, Edward R., Brooklyn, N. Y., and F. E. Idell, Hoboken, N. J. Incandescent electric lamp	282,534	Aug. 7	71	21	24	512
Knowles, Lewis G., New York, N. Y. Cartridge	283,898	Aug. 28	1725	487	24	835
Knowles, Lucius J., Worcester, Mass. Loom	272,062	Feb. 13	596	161	23	555
Knowles, Lucius J., Worcester, Mass. Loom	274,502	Mar. 27	1643	457	23	1139
Knowles, Lucius J., Worcester, Mass. Machine for forming key-seats in hubs of gears, &c.	275,393	Apr. 10	699	186	23	1354
Knowles, William, Bolton, county of Lancaster, England. Governor for steam-engines	279,097	June 5	599	163	23	2226
Knowles, William, Bolton, county of Lancaster, England. Governor for steam-engines	282,908	Aug. 7	515	144	24	592
Knowles, William A., *et al.* (See Hunt, Robert H. H., assignor.)						
Knowles, William E., *et al.* (See Benner, Joseph, assignor.)						
Knowlton, Albion, Boston, assignor to E. F. Belding, Fitchburg, Mass. Leather-skiving machine	272,888	Feb. 27	1672	467, 468	23	755

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Knowlton, Albion, Boston, assignor of two-thirds to W. B. and W. F. Brigham, Hudson, Mass. Nailing-machine	280,190	June 26	1928	542	23	2476
Knowlton, Charles H. (See Fuller and Knowlton.)						
Knowlton, Edward R. (See Bissell, Albert A., assignor.)						
Knowlton, Edward R., *et al.* (See Nadelhoffer, John W., assignor.)						
Knowlton, George W., Porter's Mills, Wis. Hay loader and rake	269,865	Jan. 2	52	16	23	13
Knowlton, Henry, West Bay City, Mich. Salt-evaporator	269,945	Jan. 2	148	43	23	31
Knowlton, John D. (See Bucklin and Knowlton.)						
Knowlton, William A., Rockford, Ill. Cultivator	287,443	Oct. 30	2102	571	25	408
Knowlton, William A., Rockford, Ill. Horse hay-rake	290,777	Dec. 25	1792	495	25	1284
Knowlton, William H. H., Chicago, Ill., and P. Sage, Dubuque, Iowa. Boiler-feeder	281,702	July 24	1717	467	24	317
Knowlton, William W., assignor of six-eighths to L. K. Shaylor and S. R. Harris, Ashtabula, Ohio. Rake	281,524	July 17	1482	407	24	273
Knowlton, William W., assignor of three-fourths to S. R. Harris and L. K. Shaylor, Ashtabula, Ohio. Making metallic rakes and forks	281,634	July 17	1618	443	24	295
Knox, Charles N. (See Spencer and Dunn, assignors.)						
Knox, Frank A., Woodland, Cal. Automatic adjustable grate	279,770	June 19	1426	398 399	23	2381
Knox, Orville M., Oneida, N. Y. Drying-floor for hop-houses	281,273	July 17	1167	323	24	220
Knudtson, John L. (See Gage, Chapman E., assignor.)						
Kober, Philip A. O. (See Worn and Kober.)						
Koch, Gustav, Munich, Bavaria, Germany. Air-ship	282,647	Aug. 7	207	60	24	536
Koch, Henry, assignor one-half to B. F. Schertz, Hilton, Ill. Wagon-tongue	274,342	Mar. 20	1417	388	23	1093
Koch, John, *et al.* See Hambujer, Ephraim, assignor.)						
Koch, Walter E. (See Huntington and Koch.)						
Koch, William. (See Freeman, Thomas F., assignor.)						
Koch, William, New York, N. Y. Quilting-machine	271,475	Jan. 30	2056	592	23	411
Kocher, John W., Bristow, Iowa. Stove	282,735	Aug. 7	319	91	24	556
Kochsmeier, Henry P., assignor to L. M. Devore and I. F. Kleckner, Freeport, Ill. Spring-hinge	282,993	Aug. 14	609	173	24	616
Kock, Henry. (See Eisenmann and Kock.)						
Kock, Wilhelm, assignor to J. L. Hall, Cincinnati, Ohio. Combined time and non-time lock	272,063	Feb. 13	596	161 162	23	555
Koechlin, Horace, Lörrach, and O. N. Witt, Mülhausen, Germany. Treatment of indophenols	275,774	Apr. 10	1184	.....	23	1436
Koefoed, Albert H., New York, N. Y., and T. B. Stillman, Hoboken, N. J. Treating phosphates of iron and alumina	281,635	July 17	1619	.....	24	295
Koegel, Alois, Milwaukee, Wis. Lamp-extinguisher	287,689	Oct. 30	2414	655	25	473
Koehler, Charles A., Decatur, Ill. Vapor-burner	270,191	Jan. 2	427	123	23	87
Koehler, Charles A., assignor to J. L. Knieper, Decatur, and J. Barrick, Blue Mound, Ill. Vapor-stove	281,375	July 17	1294	358	24	241
Koehler, Henry, Pomeroy, Ohio. Station-indicator	277,745	May 15	1503	408	23	1806
Koenig, John F., Schluersburg, Mo. Shoe-nail clincher	288,244	Nov. 13	565	157	25	615
Koenig, Maximilian J., Jersey Shore, Pa. Invalid-chair	276,429	Apr. 24	2003	555	23	1593
Koenig, Maximilian J., Jersey Shore, Pa. Head-rest	290,644	Dec. 18	1610	443	25	1184
Koerber, Rudolph C., Austin, Tex. Process of and apparatus for cleaning, tinting, and polishing pecan and other nuts	287,690	Oct. 30	2435	655	25	473
Kohler, Edward, assignor of three-eighths to H. P. Eayrs and M. Grunewald, Oakland, Cal. Sewing-machine	270,814	Jan. 16	1222	353	23	254
Kohler, Elias, York, Pa. Stock-car	275,221	Apr. 3	435	119	23	1301
Kohler, Frederick E., assignor of one-half to I. Harter, Canton, Ohio. Post-hole-digger	281,193	July 10	1057	292	24	194
Kohler, Frederick E., assignor of one-half to I. Harter, Canton, Ohio. Transplanter and post-hole digger	281,194	July 10	1059	292	24	194
Kohlhaas, Reynold, Paterson, N. J. Ribbon-loom	289,916	Dec. 11	683	190	25	1013
Kohmescher, John H., Cincinnati, Ohio. Insulating-wrapper for grouped electrical conductors	286,829	Oct. 16	1320	360	25	254
Konhorst, Henry, Henderson, Ky. Brick-kiln	288,347	Nov. 13	699	192	25	637
Kohnle, Lawrence B., and W. B. Hamilton, assignors to J. Irvine, Lima, Ohio. Drop-lift step for mill machinery	276,603	May 1	73	20	23	1640
Kohnle, Lawrence B., and W. B. Hamilton, assignors to J. Irvine, Lima, Ohio. Cut-off for bolting-chest conveyers	283,715	Aug. 21	1502	424	24	785
Kohnle, Lawrence B., and W. B. Hamilton, assignors to J. Irvine, Lima, Ohio. Bolting-chest	283,899	Aug. 28	1726	487	24	836
Kohnle, Lawrence B., and W. B. Hamilton, assignors to J. Irvine, Lima, Ohio. Combined bracket and adjustable box-bearing for shafting	284,564	Sept. 4	489	138	24	987
Koht, Frank, Gladbrook, Iowa. Seeder	274,343	Mar. 20	1417	388	23	1093
Kolar, Louis J., Chicago, Ill. Valve	277,492	May 15	1215	326	23	1848
Körner, Richard, Dresden, Saxony, Germany. Window flower-stand	285,140	Sept. 18	1215	342	24	1126
Konefes, John H., assignor of one-half to H. W. Mead, Quincy, Ill. Brick-machine	271,873	Feb. 6	346	96	23	501
Koon, Henry R., Rome, N. Y. Dredger	278,975	June 5	440	120	23	2198
Koon, William M., Troy, N. Y. Fire-kindling composition	278,436	May 29	2397	.....	23	2067
Koons, Gerow, St. Louis, Mo. Refrigerator	287,691	Oct. 30	2436	655	25	473
Koontz, Augustus O., South Bend, Ind. Windmill	272,064	Feb. 13	599	163	23	576
Kopp, Robert W. H., Washington, D. C. Automatic cut-off for gas	289,274	Nov. 27	1840	508	25	855
Korf, Henry, Jr. (See Haney, William H., assignor.)						
Korn, George W., New York, N. Y. Pocket-knife	273,858	Mar. 13	806	218	23	980
Korn, George W., New York, N. Y. Cork-turner	283,900	Aug. 28	1728	487	24	836
Korner, Theodore, Knox, Pa. Machine for pumping Artesian wells	287,444	Oct. 30	2103	572	25	408
Korte, Frank J., Zanesville, Ohio. Saw-mill set-works	286,022	Oct. 2	298	83	25	56
Körting, Ernst, Hanover, Brunswick, Germany. Jet-condenser	285,822	Oct. 2	47	15	25	10
Körting, Ernst, and G. Lieckfeld, Hanover, Prussia, Germany. Gas-motor	289,774	Dec. 4	497	138	25	972
Kosiol, Louis. (See Kosiol, Oswald J., assignor.)						
Kosiol, Oswald J., assignor to himself and L. Kosiol, Louisville, Ky. Stock for cutting-screw-threads	289,275	Nov. 27	1842	508	25	855
Koskul, Frederick, St. Louis, Mo. Fabric for veneers	288,453	Nov. 13	843	228	25	662
Koskul, Frederick, St. Louis, Mo. Brilliant veneer	288,712	Nov. 20	1163	319	25	724
Koskul, Frederick, St. Louis, Mo. Veneer	289,005	Nov. 27	1520	421	25	797
Koskul, Frederick, St. Louis, Mo. Manufacture of ornaments, letters, figures, or characters upon a foundation material	289,917	Dec. 11	684	191	25	1013
Koster, Charles. (See Dreyer, Johann H., assignor.)						
Kothe, William, Rockville, Conn. Shuttle-binder for looms	270,228	Jan. 9	477	140	23	104
Koyl, Charles H. (See Taaffe and Koyl.)						
Koyl, Charles H., Baltimore, Md., assignor to American Electrophore Company, Washington, D. C. Plate for secondary batteries	276,974	May 1	574	151	23	1724
Koyl, Charles H., Baltimore, Md., assignor to American Electrophore Company, Washington, D. C. Manufacture of porous carbon plates	279,400	June 12	998	.....	23	2301

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Kraeger, Frederick, Brooklyn, N. Y. Sail for vessels	288,819	Nov. 20	1295	355	25	748
Kraemer, Theophila F., New York, N. Y. Cover for upright pianos	270,443	Jan. 9	750	220	23	155
Kraetzer, Edwin J., Boston, Mass. Fastener for gloves, &c	281,376	July 17	1294	358	24	241
Kraetzer, Edwin J., Boston, Mass. Glove-fastener	290,067	Dec. 11	860	244	25	1045
Krajewski, Thomas F., Paterson, N. J. Wheeled vehicle	289,421	Dec. 4	58	17	25	897
Kraker, Michael, assignor of two-thirds to M. Israel and O. Schmidt, San Francisco, Cal. Clutch mechanism	283,493	Aug. 21	1244	349	24	736
Kralowetz, Joseph, *et al.* (See Bastam, Fredric, assignor.)						
Kramer, Bertram F., Charleston, S. C. Rock-breaker	278,801	June 5	168	49	23	2151
Kramer, Charles P., Hamilton, Ohio. Stove-pipe section	279,873	June 19	1553	434	23	2403
Kramer, William R., Delphos, Ohio. Gate	275,775	Apr. 10	1185	325	23	1437
Krebs, H. Johannes, assignor of one-half to A. D. Warner, Wilmington, Del. Manufacture of glucose	288,245	Nov. 13	565	157	25	615
Kreidler, Antro. (See Kreidler, John H., and A.)						
Kreidler, John H., Bethlehem, and A. Kreidler, Lower Nazareth, Pa. Fence-post	287,944	Nov. 6	196	57	25	541
Krein, Franz. (See Devine, James, assignor.)						
Krein, Franz, St. Louis, Mo. Tug-clip	270,082	Jan. 2	296	88	23	60
Krein, Franze. (See Mann, Amos C., assignor.)						
Kreischer, Jacob, Albany, N. Y. Method of and machine for creaming candy	282,535	Aug. 7	72	21	24	513
Kremer, Franklin W., Wadsworth, Ohio. Convertible ejector, inspirator, and injector	282,092	July 31	2213	608	24	409
Krementz, George, Newark, N. J. Ear-ring fastener	271,084	Jan. 23	1558	448	23	316
Kremser, William H., Omaha, Nebr. Plow attachment for wagon-gearing	276,975	May 1	575	151	23	1724
Krepps, Virgil A., New York, N. Y. Seal-lock	287,299	Oct. 23	1927	527	25	368
Krepps, Virgil A., New York, N. Y. Seal-lock for car-doors	290,690	Dec. 25	1674	461	25	1202
Kress, John A. (See Ord and Kress.)						
Kretsinger, Frederick S., and E. Stewart, Fort Madison, Iowa; said Stewart assignor to said Kretsinger. Scythe-snath fastening	280,486	July 3	189	50	24	35
Kribs, Anthony, Brooklyn, N. Y. Glass-mold	274,790	Mar. 27	1987	552	23	1200
Kribs, Charles C., Trempealeau, Wis. Milk-skimmer	282,093	July 31	2215	609	24	409
Kriebel, Hosea K., assignor of one half to F. Light, Jr., West Point, Pa. Valve-gear	290,645	Dec. 18	1611	443	25	1184
Krieger, Andrew. (See Richards and Krieger.)						
Krier, Peter, Maine Prairie, Minn. Harrow-coupling	280,382	July 3	53	14	24	12
Krill, F. Adon, assignor of one-half to F. J. Hinkston, Burton, Ohio. Surgeon's operating-chair	278,241	May 22	2118	583	23	2010
Krindenier, D., *et al.* (See De Vries, Jello A., assignor.)						
Krindenier, Leendert, *et al.* (See De Vries, Jelle A., assignor.)						
Krings, Fredrich P., assignor of one-half to W. H. Fletcher, Chicago, Ill. Lock	289,542	Dec. 4	212	59, 60	25	923
Krippendorf, Emile, Wood Haven, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Tea or coffee pot	276,976	May 1	576	151	23	1725
Kritch, Jacob, Cleveland, Ohio. Axle-box	270,903	Jan. 23	1333	385	23	280
Kritch, Karl E., Cleveland, Ohio. Water-closet apparatus	277,293	May 8	976	262	23	1800
Kriz, William J. (See Kacer and Kriz.)						
Krizik, Franz. (See Piette and Krizik.)						
Kroblen, Henry, Boone, Iowa. Car-coupling	272,840	Feb. 20	1601	448	23	735
Kroedel, Franz, and W. Wesp Hoboken, N. J. Gate-latch	284,743	Sept. 11	723	202	24	1033
Kroeschell Brothers. (See Bourgeois, David, assignor.)						
Kromer, Otto, Sandusky, Ohio. Rake-arm for harvesters	278,023	May 22	1846	503	23	1963
Kromer, Otto, and F. Rinkleff, Sandusky, Ohio. Clutch	278,024	May 22	1846	504	23	1963
Kromer, Otto, and F. Rinkleff, Sandusky, Ohio. Lathe for turning irregular forms	278,025	May 22	1847	504	23	1963
Kropff, Hermann, New York, N. Y. Air-cooling apparatus	271,716	Feb. 6	153	43	23	467
Kropff, Hermann, New York, N. Y. Process of and apparatus for malting grain	283,494	Aug. 21	1245	349	24	736
Kroulik, George, and L. Bilan, Iowa City, Iowa. Corn-planter	287,384	Oct. 23	2028	551	25	387
Kroupa, Joseph, St. Louis, Mo. Grate	286,140	Oct. 2	441	120	25	82
Krouse, William A., Williamsport, Pa. Manufacture of and mold for making cuspidors, &c	286,830	Oct. 16	1320	360	25	254
Kruesi, John, Brooklyn, N. Y. Junction-box and connection for electrical conductors	273,859	Mar. 13	807	218	23	980
Kruesi, John, Brooklyn, N. Y. Underground electrical conductor	275,776	Apr. 10	1186	325	23	1437
Kruesi, John, Brooklyn, assignor to Electric Tube Company, New York, N. Y. Machine for insulating electrical conductors	288,454	Nov. 13	845	228, 229	25	662
Krummenauer, John, Brooklyn, assignor to F. Dietz, New York, N. Y. Tubular lamp	272,841	Feb. 20	1601	448	23	735
Krummenauer, John, Brooklyn, assignor to F. Dietz, New York, N. Y. Tubular-lamp support	272,842	Feb. 20	1602	448	23	736
Krupp, Friedrich A., Essen, Germany. Production of sound ingots and apparatus therefor	271,717	Feb. 6	154	43	23	467
Kruse, Charles. (See Kendall and Kruse.)						
Kruse, Charles. (See Weiss, Charles W., assignor.)						
Kruse, J. H. (See Dusenbury, Philip S., assignor.)						
Kruse & Murphy Manufacturing Company. (See Murphy, Edward, assignor.)						
Kruse, William. (See Kane, Frank H., assignor.)						
Krutzsch, William, assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Multiple milling-machine	277,746	May 15	1504	408, 409	23	1897
Krzeminski, Stanislaw, *et al.* (See Klein, Joseph, assignor.)						
Kryzki, Stanislaus, Henry, Ill. Belt-tightener	288,579	Nov. 13	994	274	25	690
Kubler, John, Hot Springs, Ark. Sash-fastener	278,802	June 5	169	50	23	2151
Küchenmeister, August, A. Gröschel, and A. Rauchenbichler, Cincinnati, Ohio Fire-kindler	288,067	Nov. 6	344	96	25	566
Kuehn, Charles A., St. Louis, Mo. Florist's form	274,006	Mar. 13	978	268	23	1009
Kuehne, Ernst. (See Hunter and Kuehne.)						
Kuehne, Frederick. (See Nuhn and Kuehne.)						
Kuehner, D., *et al.* (See Held, August S., assignor.)						
Kügemann, Edward, Chicago, Ill. Window-cornice	271,718	Feb. 6	157	43	23	467
Kugler, Ephraim R., Kingwood, N. J. Brake for vehicles	270,815	Jan. 16	1224	354	23	254
Kugler, Ephraim R., Kingwood, N. J. Turning-lathe	286,933	Oct. 16	1449	398	25	276
Kuhleman, Henry, Laclede Station, Mo. Grain-drill	290,245	Dec. 18	1079	302	25	1093
Kuhlman, David D., New York, N. Y. Automatic grain-weighing apparatus	286,934	Oct. 16	1451	398, 399	25	276
Kuhlman, David D., New York, N. Y. Automatic grain-weighing apparatus	288,820	Nov. 20	1296	355	25	748
Kuhlmann, Henry F., assignor to National Saw-Guard Company, Indianapolis, Ind. Saw-guard	281,274	July 17	1168	323	24	220
Kuhlmann, Henry F., assignor to National Saw-Guard Company, Indianapolis, Ind. Saw-guard	281,275	July 17	1169	323	24	220
Kuhlmann, Henry F., assignor to National Saw-Guard Company, Indianapolis, Ind. Saw-guard	286,710	Oct. 16	1175	316	25	228
Kühmaier, Franz, Pressburg, Hungary, assignor of one-half to A. Skene, Kenna, Austria. Electric motor	289,918	Dec. 11	686	191	25	1013

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kuhn, Edmond, Brooklyn, assignor to A. O. Jennings, New York, N. Y. Watch	289,352	Nov. 27	1940	539	25	874
Kuhn, James S. (See Russell, George, assignor.)						
Kuhnmünch, Joseph, Röttingen-on-the-Tauber, Germany, assignor to Electric Purifier Company, New Haven, Conn. Middlings-purifier	288,068	Nov. 6	345	96	25	566
Kuhnle, Thomas C. (See Bogard, John J., assignor.)						
Kuhns, Arthur E., and G. D. Beattie, Chicago, Ill. Steam-boiler for cooking food	274,503	Mar. 27	1645	457	23	1139
Kuhns, Benjamin, Dayton, Ohio. Combined seeder and fertilizer-distributer. (Reissue)	10,323	May 8	1143	308	23	1929
Kukkuck, Friederick, and H. Arnd, St. Louis, Mo. Trunk-top	275,499	Apr. 10	832	225	23	1377
Kukkuck, Friederick, and H. Arnd, St. Louis, Mo. Trunk-top	275,500	Apr. 10	833	226	23	1377
Kukkuck, Friederick, and H. Arnd, assignors to Arnd Manufacturing Company, St. Louis, Mo. Manufacture of trunk-tops	279,258	June 12	800	222	23	2270
Kully, Louis, assignor of one-eighth to C. Sommer, Newark, N. J. Tailor's shears	280,047	June 26	1777	498	23	2448
Kulp, Isaac R., Hatfield, Pa. Water-mill	275,922	Apr. 17	1371	377	23	1477
Kunath, Otto. (See List and Kunath.)						
Kunkel, Daniel, Sr., Oregon, Mo. Car-coupling	276,977	May 1	577	151	23	1725
Kunnecke, Ernst C. L., Dayton, Ohio. Safety attachment for elevators	290,331	Dec. 18	1194	334, 335	25	1113
Kursh, Frank, and F. S. Feraille, Philadelphia, Pa. Bracelet	273,110	Feb. 27	1935	542	23	900
Kursheedt Manufacturing Company. (See Groebli, Joseph A., assignor.)						
Kurtis, Joseph, Springfield, Ohio. Stove-pipe shelf	277,294	May 8	977	262	23	1800
Kurtz, Jacob, Delano, Minn. Whiffletree attachment	290,890	Dec. 25	1931	533	25	1248
Kurtz, W. M. (See Case, John M., assignor.)						
Kurtz, William E., *et al.* (See Thompson, William H., assignor.)						
Kurtz, William W. (See McCausland, William J., assignor.)						
Kusch, Karl G. A. (See Menze, Friedrich W., assignor.)						
Kuschke, Alexander R., Cincinnati, Ohio. Billiard-ball	275,923	Apr. 17	1371	377	23	1477
Kuster, John, Jr., Stamford, Conn. Extension-lock for doors	277,295	May 8	979	263	23	1800
Kuttroff, Adolf, *et al.* (See Endemann, Hermann, assignor.)						
Kuykendall, John R. (See Shepard, John, assignor.)						
Kyle, Robert B. (See Freeman, George W., assignor.)						
Kyser, Cornelius R., Parsons, Kans. Ice-plow	279,653	June 19	1297	360	23	2359
Kyser, Louis, and A. C. Rex, Philadelphia, Pa. Toy money-box	281,377	July 17	1295	359	24	242
Kyser, Louis, and A. C. Rex, Philadelphia, Pa. Lemon-squeezer	281,378	July 17	1296	359	24	242
La Breche Viger, Joseph, Montreal, Quebec, Canada. Magnetic separator	278,976	June 5	441	120	23	2198
La Cosse, Callax, West Bay City, Mich. Dumping-car	274,890	Mar. 27	2108	566	23	1220
LaDow, John, Howard, Minn. Extension-table	279,957	June 26	1663	467	23	2428
La Farge, John, New York, N. Y. Manufacture of colored-glass windows	274,948	Apr. 3	83	23	23	1239
La Mont, C. Frederick. (See Trench, Ira J., assignor.)						
La Mont, Charles A., Turner's, N. Y. Desiccated egg	283,618	Aug. 21	1380	.....	24	762
La Plant, Adonijah P., Towanda, Pa. Cartridge-loading machine	283,791	Aug. 28	1605	453	24	816
La Rose, Frank T., Pawtucket, R. I. Elevator-bucket	288,581	Nov. 13	996	274	25	690
La Rue, Silas H., Frenchtown, N. J. Coal-stove	286,315	Oct. 9	680	181, 182	25	132
La Tourette, James, St. Louis, Mo. Pump-bucket	276,695	May 1	906	53	23	1659
Laass, Emil, *et al.* (See Bustin, John H., assignor.)						
Labaw, Joseph C. S., Neshanic, N. J. Speed-regulator	287,134	Oct. 23	1712	469	25	331
Labelle, Felix. (See Cook and Labelle.)						
Labelle, Felix. (See Millen, Mantion, Labelle, and Cook.)						
Labelle Glass Company, legatee. (See Baggs, Andrew H.)						
Lacape & Co., J. (See Lacape, Jean, assignor.)						
Lacape, Jean, assignor to J. Lacape & Co., Paris, France. Mechanical musical instrument	272,269	Feb. 13	849	236, 237	23	600
Lacerte, Isaïe. (See Lacerte, Jean H., assignor.)						
Lacerte, Jean H., Parish of St. Barnabé, Quebec, Canada, assignor to I. Lacerte, Wausau, Wis. Sash-fastener	279,771	June 19	1427	399	23	2382
Lacey, Frederick N., Council Bluffs, Iowa. Blacking-box holder	283,256	Aug. 14	942	263	24	675
Lacey, Joseph V., Salinas, Cal. Harrow	284,309	Sept. 4	187	53	24	936
Lachenmeyer, August, Narrowsburg, N. Y. Brewers' shavings	273,860	Mar. 13	809	219	23	960
Lackersteen, Mark H., Chicago, Ill. Table-sauce	281,276	July 17	1170	.....	24	220
Lackersteen, Mark H., Chicago, Ill. Treating fats and oils	284,862	Sept. 11	863	.....	24	1057
Lacky, James W. (See Miller, David K., assignor.)						
Lacombe, Emile H. (See Tryon, Benjamin, assignor.)						
Lacour, Charles F., Grassy Point, N. Y. Kiln-head guide	270,444	Jan. 9	751	220	23	155
Lacrone, Milton. (See Dungan and Lacrone.)						
Ladd, Austin S., assignor to J. W. Bennett, A. M. Moore, K. Hyde, and F. Taylor, Lowell, Mass. Wood-rim pulley	284,133	Aug. 28	2040	567	24	891
Ladd, Daniel E., assignor of one-half to F. B. Hooper, Baltimore, Md. Necktie-holder	281,703	July 24	1718	467	24	318
Ladd, Daniel E., assignor of one-half to F. B. Hooper, Baltimore, Md. Tie for bags, bales, and bundles	281,704	July 24	1719	467	24	318
Ladd, Fred W. (See Kendall and Ladd.)						
Ladd, George S., Providence, R. I. Watch-case	278,151	May 22	2000	550	23	1990
Ladd, Levi. (See Stinson, Charles K., assignor.)						
Ladd, Loren G. (See Newell and Ladd.)						
Laemmle, David, assignor of one-third to S. R. Alden, Fort Wayne, Ind. Kiln for burning tiles, earthenware, &c	285,776	Sept. 25	1991	563	24	1269
Lafeber, James, Indianapolis, Ind. Combined stalk-cutter and soil-pulverizer	275,501	Apr. 10	834	226	23	1377
Lafferty, Robert M., St. Paul, Minn. Handle-bracket for pumps	272,889	Feb. 27	1674	468	23	755
Lafitte, Jean J., Paris, France. Welding flux and preparing and using the same	286,311	Oct. 9	671	.....	25	132
Lafler, John A., Albion, N. Y. Brick-machine	289,422	Dec. 4	60	17	25	897
Laflin, Perley, Warren, assignor to Wright Machine Company, Worcester, Mass. Spindle for spooling-machines, &c	282,331	July 31	2531	694	24	461
Lafon, Louis, New York, N. Y. Machine for making the bodies of artificial flowers	290,436	Dec. 18	1340	371	25	1138
Lagel, Benjamin F. (See Applegate, Benjamin F., assignor.)						
Laing, James M., Bay City, Mich. Pump	284,310	Sept. 4	188	53	24	936
Laird, John, Jr., Forfar, county of Forfar, Scotland, assignor to W. Rutherford, San Francisco, Cal. Loom for weaving bags, &c	286,711	Oct. 16	1176	316, 317	25	229
Laist, Otto, Cincinnati, Ohio. Apparatus for the manufacture of glycerine	286,448	Oct. 9	838	227	25	163
Lake, Charles, Danbury, Conn. Movable bottom for hat-machines	279,772	June 19	1427	399	23	2382
Lake, Everett L., Syracuse, N. Y. Breech-loading fire-arm	284,213	Sept. 4	73	20, 21	24	917
Lake, Everett L., Syracuse, N. Y. Lock for fire-arms	289,423	Dec. 4	61	17	25	897
Lake, Ezra B., Ocean City, N. J. Cow-catcher for locomotive-engines	284,438	Sept. 4	340	94	24	961
Lake, Jacob S., Lebanon, N. J. Ground-marker	284,439	Sept. 4	341	94	24	961
Lake, Jesse S., Pleasantville, N. J. Steering apparatus	280,191	June 26	1929	543	23	2476
Lake, John C., Big Prairie, Ohio. Sign	280,192	June 26	1931	543	23	2477

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lake, William W. (See Manchester, Richard S., assignor.)						
Lakin, James A., Westfield, Mass. Individual telephone-call	276,604	May 1	75	21	23	1641
Lakin, James A., Westfield, Mass. Telephone-transmitter	278,026	May 22	1849	505	23	1963
Lakin, James A., Westfield, Mass. Telephone-transmitter	279,401	June 12	999	277	23	2301
Lalance & Grosjean Manufacturing Company. (See Chaumont, Jules, assignor.)						
Lalance & Grosjean Manufacturing Company. (See Cochran, James, assignor.)						
Lalance & Grosjean Manufacturing Company. (See Kegreisz, Emile, assignor.)						
Lalance & Grosjean Manufacturing Company. (See Krippendorf, Emile, assignor.)						
Lalance & Grosjean Manufacturing Company. (See Milligan and Chaumont, assignors.)						
Lalance & Grosjean Manufacturing Company. (See Milligan, John C., assignor.)						
Lalance & Grosjean Manufacturing Company. (See Mouhot, Emile, assignor.)						
Lalance & Grosjean Manufacturing Company. (See Raymond, Francois, assignor.)						
Laligant, Rodolphe. (See Sanlaville and Laligant.)						
Lallement, Charles C. (See Etève and Lallement.)						
Lally, Edward. (See Renshaw, David, assignor.)						
Lally, Thomas J. (See O'Neil, John, assignor.)						
Laman, Carrie R., Meadville, Pa. Lubricating-oil	282,648	Aug. 7	208	.....	24	536
Lamar, Alfrède C., St. Paul, Minn. Flax-puller	287,445	Oct. 30	2105	572, 573	25	409
Lamb, Issac W., Parshallville, Mich. Windmill and derrick	276,831	May 1	385	102, 103	23	1694
Lamb, John W. (See Lowe and Lamb.)						
Lamb, Patrick W., Albany, N. Y. Grate-bar for furnaces	274,949	Apr. 3	85	23	23	1240
Lamb, Robert, *et al.* (See Chamberlain, Blanchard, assignor.)						
Lamberet, Pierre E., and A. M. Billoud, St. Laurent les Macon, France. Educational apparatus	281,770	July 24	1809	494	24	334
Lambert, Albert S., Bridgeton, N. J. Fruit-jar	289,276	Nov. 27	1843	508	25	855
Lambert, Auguste, Fosse, Belgium. Sewing-machine	277,747	May 15	1510	409, 410	23	1898
Lambert, Catholina. (See Barton, Edwin, assignor.)						
Lambert, Harry. (See Brown and Lambert.)						
Lambert, Jules, New York, N. Y. Gage for forming foundations for artificial flowers	276,430	Apr. 24	2004	555	23	1593
Lambert, Mardochée. (See Pradon, Leopold, assignor.)						
Lambert, Mark, Newark, N. J. Apparatus for the manufacture of oxide of zinc	283,901	Aug. 28	1728	488	24	836
Lambert, T. W. (See Harris, Joshua W., assignor.)						
Lambert, William H., and G. C. Deems, Alton, Ohio. Pump	274,791	Mar. 27	1988	552	23	1200
Lambie, Edward L. (See Maltby, Sidney, assignor.)						
Lambie, Edward L. (See Tower, George B. N., assignor.)						
Lambie, Robert M., New York, N. Y. Book-holder	283,495	Aug. 21	1246	350	24	737
Lamborn, A. J. (See Wright, William A., assignor.)						
Lamborn, Lewis, Hamorton, Pa. Road-mender	277,748	May 15	1511	410	23	1898
Lamborn, Lewis, Hamorton, Pa. Road-scraper	290,246	Dec. 18	1081	302	25	1094
Lambrigger, Alfred A., Big Horn, Wyoming. Car-brake	290,588	Dec. 18	1539	424	25	1173
Lamm, John N., Paola, Kans. Cultivator	290,778	Dec. 25	1794	495	25	1224
Lammel, John D., Menasha, Wis. Counting attachment for gage-lathes	274,950	Apr. 3	86	24	23	1240
Lamont, James, Sag Harbor, assignor to Fahys Watch Case Company, New York, N. Y. Device for making watch-case backs	284,440	Sept. 4	342	95	24	961
Lamont, John. (See Tower and Lamont.)						
Lamoreux, Norman D. (See Bonney and Lamoreux.)						
Lamping, John F., Cincinnati, Ohio. Stop and waste cock	276,431	Apr. 24	2005	556	23	1593
Lamprecht, Hugo, New York, N. Y. Rocking-chair	286,449	Oct. 9	839	227	25	163
Lamson Cash Railway Company. (See Hayden, Harris H., assignor.)						
Lamson, Edwin, *et al.* (See Coram, John C., assignor.)						
Lamson, William S., Lowell, Mass. Automatic cash-carrier	284,863	Sept. 11	865	242	24	1057
Lamy, Louis, West Hoboken, N. J. Steam-actuated valve for pumps	284,744	Sept. 11	724	202	24	1033
Lancaster, Bradford F., assignor of one-half to R. W. Black, Augusta, Me. Ratchet-wrench	282,462	July 31	2699	742	24	491
Lancaster, Charles F., Fife Lake, Mich. Spring-seat for vehicles	290,437	Dec. 18	1340	371	25	1138
Lancaster, Elias H., Montpelier, Ind. Ditching-machine	280,631	July 3	351	98	24	69
Lancaster, Israel, Chicago, Ill. School-slate	290,691	Dec. 25	1676	462	25	1202
Lancaster, James H., Southampton, county of Hants, England, assignor of one-half to A. J. Bayless, New York, N. Y. Baby-carrier	278,437	May 29	2398	653	23	2067
Lancaster, John P., Goshen, Ind. Car-coupling	271,085	Jan. 23	1559	449	23	316
Lancaster, Litt R., *et al.* (See Brennan, James R., assignor.)						
Lance, Addison, and M. Yolton, Frankfort Springs, Pa. Motor	274,203	Mar. 20	1226	337	23	1060
Lance, James M., New Jerusalem, Ohio. Sap-bucket holder	289,662	Dec. 4	359	101	25	950
Lance, Shields D. (See Elliott and Lance.)						
Lançon, Gédéon, Septmoncel, near St. Claude, assignor to Ste. E. E. Kipling, Paris, France. Manufacture of artificial stones	286,023	Oct. 2	299	83	25	56
Land, Charles H., Detroit, Mich. Artificial tooth	271,476	Jan. 30	2058	593	23	411
Land, Charles H., Detroit, Mich. Artificial denture	282,094	July 31	2215	609	24	409
Landenberger, George W., assignor to I. V. Landenberger, Philadelphia, Pa. Stocking and making the same	286,141	Oct. 2	443	120	25	82
Landenberger, Ida V. (See Landenberger, George W., assignor.)						
Landenberger, Martin, Jr., Philadelphia, Pa. Cutting stocking-blanks	276,832	May 1	387	103	23	1694
Landenberger, Martin, Jr., Philadelphia, Pa. Making stockings	284,026	Aug. 28	1907	534	24	868
Lander, James N. (See Ash, Charles W., assignor.)						
Lander, Samuel, Bloomington, Ill. Safety oil-tank	290,438	Dec. 18	1342	371	25	1138
Lander, William T., Williamston, S. C. Tool-holder	274,344	Mar. 20	1418	389	23	1094
Landers, Francis, Stroudsburg, Pa. Emery-wheel for grinding twist-drills and other tools	288,069	Nov. 6	346	97	25	566
Landers, Frary & Clark. (See Alpress, Edward A., assignor.)						
Landers, Frary & Clark. (See Webb, Rodolphus L., assignor.)						
Landers, John, *et al.* (See Farwell, Willard B., assignor.)						
Landes, Jacob C., Souderton, Pa. Driving mechanism for sewing-machines	288,643	Nov. 20	1074	295	25	709
Landes, John K., Caledonia, Ohio. Folding ladder	288,455	Nov. 13	848	229	25	663
Landfear, William R., Brooklyn, N. Y. Label printing and perforating machine	288,349	Nov. 13	703	192	25	637
Landfear, William R., Brooklyn, N. Y., assignor of two-thirds to Bottum & Trescott, Springfield, and Eureka Silk Manufacturing Company, Canton, Mass. Silk and thread polishing machine	281,705	July 24	1720	467	24	318
Landgraff, Henry A., *et al.* (See Grundy, Arthur, assignor.)						
Landis, Frank F., Waynesborough, Pa. Steam-boiler	271,477	Jan. 30	2059	593	23	411
Landis, Frank F., Waynesborough, Pa. Traction-wheel	286,312	Oct. 9	672	179, 180	25	132
Landis, Frank F., Waynesborough, Pa. Traction-engine	286,313	Oct. 9	675	180, 181	25	132

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Landis, Israel L. (See Denney, Samuel L., assignor.)						
Landis, Israel L., Lancaster, Pa. Gate	270,957	Jan. 23	1406	405	23	291
Landis, Israel L., Lancaster, Pa. Lifting-jack	274,007	Mar. 13	979	268	23	1010
Landis, Israel L., Lancaster, Pa. Gate	284,441	Sept. 4	343	95	24	961
Landis, Israel L., and J. Riddel, Lancaster, Pa.; said Riddel assignor to said Landis. Gate	280,632	July 3	353	98	24	62
Landon, Albert, Rutland, Vt. Stamp-canceler	283,902	Aug. 28	1730	488	24	836
Landry, Alexander C., and C. Lauga, New Orleans, La. Method of and apparatus for converting amylaceous and ligneus substances into grape-sugar	278,562	May 29	2544	694	23	2093
Lane, Albert W. (See York and Lane.)						
Lane, Augustine, Bellows Falls, Vt. Nib-iron for scythe-snaths	283,406	Aug. 21	1134	321	24	717
Lane, Charles D., Albion, Idaho Ter. Gold-washing machine	275,777	Apr. 10	1188	326	23	1437
Lane, Charles E. (See Bradford, Charles W., assignor.)						
Lane, Charles W., Minneapolis, Minn. Bar and pipe cutter	280,487	July 3	190	50	24	35
Lane, Daniel S., Hooversville, Pa. Wagon-brake	288,456	Nov. 13	849	230	25	663
Lane, Erastus. (See Sawyer, Woodbury, and Lane.)						
Lane, Fernando G., Austin, Tex. Barrel-cover	278,563	May 29	2547	694	23	2093
Lane, Fernando G., Austin, Tex. Register for barbers' chairs	282,332	July 31	2533	694	24	462
Lane, Fred, Boston, Mass. Railway signal apparatus	288,348	Nov. 13	700	192	25	637
Lane, George M., Asbury Park, N. J. Station-indicator	288,644	Nov. 20	1076	296	25	710
Lane, George W., Rockford, Ill. Can	290,068	Dec. 11	861	245	25	1045
Lane, Isaac T., assignor of one-half to J. H. Sloma, Flatonia, Tex. Ribbon-holder	288,070	Nov. 6	347	97	25	586
Lane, James W., Glen Cove, N. Y. Milk-can cover	277,140	May 8	801	210	23	1769
Lane, John, Hyde Park, Ill. Sulky-plow	277,749	May 15	1513	410, 411	23	1899
Lane, John, Hyde Park, Ill. Corn-cultivator blade or shovel	277,907	May 22	1703	465	23	1939
Lane, John, Hyde Park, Ill. Vehicle-wheel	278,438	May 29	2398	653, 654	23	2067
Lane, John, Hyde Park, Ill. Vehicle-wheel	278,665	May 29	2669	730	23	2115
Lane, John, Hyde Park, assignor to Peru City Plow Company, Peru City, Ill. Cultivator	275,502	Apr. 10	835	226	23	1377
Lane, John, Brooklyn, N. Y., assignor to L. Prang & Co., Boston, Mass. Ornamental card	279,490	June 12	1099	304	23	2317
Lane, John C. (See Swayze and Lane.)						
Lane, Joseph, Danville, Ill. Feathering paddle-wheel	274,345	Mar. 20	1419	389	23	1094
Lane, Joseph, Chicago, Ill. Rotary plow	278,711	June 5	46	14, 15	23	2132
Lane, Lorenzo, and L. D. Woodworth, Youngstown, Ohio. Mold for roofing-tiles	279,402	June 12	1000	277	23	2301
Lane, Oliver A., Peabody, Mass. Bark-conveyer	276,605	May 1	77	21	23	1641
Lane, Rufus, Beloit, Wis., assignor to Illinois Iron & Bolt Company, Carpentersville, Ill. Axle-skein	277,579	May 15	1320	354	23	1864
Lane, Samuel G., *et al.* (See Bloom, David, assignor.)						
Lane, Thomas W., Boston, assignor to C. Williams, Jr., Somerville, Mass. Electric switch-board and signaling apparatus	287,300	Oct. 23	1928	527	25	369
Lane, Thomas W., Boston, assignor to C. Williams, Jr., Somerville, Mass. Telephone-support	287,301	Oct. 23	1930	527	25	369
Lane, William, San Francisco, Cal. Pen or pencil holder	281,525	July 17	1483	407	24	273
Laney, William S., Baltimore, and C. F. Yost, Canal Winchester, Ohio. Rein-holder	287,031	Oct. 23	1585	436	25	306
Lanfrey, Amédée J., Chartres, France. Manufacture of explosive compounds	276,833	May 1	387	.....	23	1694
Lang, Anthony, and H. B. Ott, Philadelphia, Pa. Shirt	290,069	Dec. 11	862	245	25	1046
Lang, Anton, Brooklyn, N. Y. Fishing-reel	283,496	Aug. 21	1248	350	24	737
Lang, Charles E. J. (See Stuart, William F., assignor.)						
Lang, John A. (See Roberts, George S., assignor.)						
Lang, John B., Ithaca, N. Y. Connecting-rod and pitman	290,332	Dec. 18	1195	335	25	1113
Lang, John C., assignor to National Shelf and File Company, Washington, D. C. Metallic bill-file case. (Reissue)	10,309	Apr. 10	1212	332	23	1441
Lang, Theodore F., Baltimore, Md. Window-sash	281,379	July 17	1297	359	24	242
Lang, Thomas. (See Brown, William, assignor.)						
Lang, William, Brooklyn, N. Y. Fife	274,617	Mar. 27	1785	466	23	1164
Lang, William, Brooklyn, N. Y. Curtain-pole ring	286,712	Oct. 16	1179	317	25	229
Langdon, James E., assignor to Union Hardware Company, Torrington, Conn. Cartridge-loading implement	272,141	Feb. 13	695	190	23	572
Langdon, James E., assignor to Union Hardware Company, Torrington, Conn. Joint or coupling for rods, &c	285,493	Sept. 25	1631	458	24	1206
Langdon, James E., assignor to Union Hardware Company, Torrington, Conn. Powder and shot measure	289,111	Nov. 27	1672	458	25	819
Langdon, Joseph A., Pittsburg, Pa. Vertical steam-boiler	281,890	July 24	1963	537	24	361
Langdon, Nelson M., Chester, N. J. Apparatus for generating gas	276,432	Apr. 24	2006	556	23	1594
Lange, Christian, Black Earth, Wis. Hame	281,526	July 17	1484	407	24	273
Lange, Edward, assignor to W. E. Johnson, Poughkeepsie, N. Y. Clamp for hand-power dumb-waiters and other purposes	286,024	Oct. 2	300	84	25	56
Lange, Gustav A., Chemnitz, Saxony, Germany. Fastening for gloves, shoes, &c	287,135	Oct. 23	1713	469	25	331
Lange, Louise, New York, N. Y. Catamenial sack	282,201	July 31	2370	652	24	433
Langenau, William C., Cleveland, Ohio. Burial-casket catch	275,303	Apr. 10	837	226	23	1377
Langenau, William C., Cleveland, Ohio. Catch for burial-caskets	281,277	July 17	1171	323	24	220
Langenbach, Charles J., Dorchester, Iowa. Alarm speed-indicator	275,222	Apr. 3	436	120	23	1301
Langenbach, Charles J., Dorchester, Iowa. Car-coupling	285,042	Sept. 18	1096	306	24	1106
Langford, Samuel B., Homer, La. Railway-gate	288,580	Nov. 13	995	274	25	690
Langill, T. Wesley, New York, N. Y. Combined vault-cover and ventilator	289,663	Dec. 4	360	102	25	950
Langley, Alfred A., 10 Kent Terrace, Clarance Gate, Regent's Park, county of Middlesex, England. Railway-buffer stop	271,478	Jan. 30	2061	593	23	412
Langrehr, Henry C., San Francisco, Cal. Lift-pump	280,834	July 10	618	173, 174	24	113
Langrehr, Henry C., San Francisco, Cal. Compound pump	280,835	July 10	619	174	24	115
Langrehr, Henry C., San Francisco, Cal. Compound pump	283,257	Aug. 14	943	263, 264	24	675
Langsdorf, Sigmund. (See Schulze, August, assignor.)						
Langston, Thomas, assignor to E. Miller & Co., Meriden, Conn. Lantern	279,403	June 12	1002	278	23	2302
Langston, Thomas, assignor to E. Miller & Co., Meriden, Conn. Lantern	283,258	Aug. 14	945	264	24	676
Langston, Thomas, assignor to E. Miller & Co., Meriden, Conn. Lantern	284,442	Sept. 4	344	95	24	962
Langtry, Richard, assignor of one-half to J. N. Trenholm, St. Louis, Mo. Window-sash	275,223	Apr. 3	437	120	23	1301
Lanum, Richard B., Circleville, Ohio. Receiving and burial vault	284,027	Aug. 28	1908	534	24	869
Lanham, William P., Star, Mo. Corn-planter	290,070	Dec. 11	863	245, 246	25	1046
Lannes, Jean A. (See Oury, Eugene, assignor.)						
Lanoizelet, Barthélemy, Bourbon-Lancy, France. Agricultural implement	279,958	June 26	1664	467	23	2428
Lansburgh, Julius. (See Hester, Joseph G., assignor.)						
Lanscha, Theodore A., Flannigan, Ill. Check-rower	273,370	Mar. 6	174	48	23	804

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Lanston, Tolbert, Washington, D. C. Window-sash	290,071	Dec. 11	865	246	25	1046
Lanthier, Edouard, assignor to G. T. Slater, Montreal, Quebec, Canada. Button boot or shoe	277,580	May 15	1320	354	23	1864
Lantz, Michael H., Marionville, Mo. Railway-gate	286,713	Oct. 16	1179	317	25	229
Lantz, Michael H., assignor of one-fourth to N. T. Clevenger, Marionville, Mo. Method of and device for coaling locomotive-tenders while in motion	276,051	Apr. 17	1522	419	23	1503
Lanz, James J. (See Hirsch, Charles, assignor.)						
Lapersonnerie, Martial, N. Y. Fire-proof partition-block	287,552	Oct. 30	2242	608	25	436
Lapham, Valentine. (See Gregory and Lapham.)						
Laquey, John C., Battle Creek, Mich. Thrashing-machine	273,551	Mar. 6	399	107	23	902
Laraway, Elbert D., Hartford, Conn. Spring bed-bottom	283,903	Aug. 28	1731	488	24	836
Laraway, Elbert D., Hartford, Conn. Spring bed-bottom	283,904	Aug. 28	1732	489	24	837
Large, John R. (See Gissinger, Samuel, assignor.)						
Largey, Patrick A., *et al.* (See Bassford, Isaac F., assignor.)						
Largey, Patrick A. (See Weller, Thomas B., assignor.)						
Larimore, James W., Chicago, Ill. Game-board	278,712	June 5	48	15	23	2133
Lark Manufacturing Company. (See Bailey, Selden A., assignor.)						
Larkin, Frank J., Chicago, Ill. Vehicle-spring	284,214	Sept. 4	75	21	24	918
Larkin, George F., Danbury, Conn. Machine for sizing hat-bodies and sticking and scalding napped hats	275,924	Apr. 17	1372	378	23	1477
Larkin, Patrick, assignor to E. S. Amrock, Waltham, Mass. Tap and faucet	288,457	Nov. 13	850	230	25	663
Larkin, Thomas. (See Black and Larkin.)						
Larkin, William F., Haverhill, Mass. Shoe-maker's tool	285,279	Sept. 18	1372	387	24	1156
Laroche, Jules P. (See Prat and Laroche.)						
Larrabee, Thomas W., Carrollton, Ind. Underground-drain tile	272,270	Feb. 13	851	237	23	600
Larroque, Jean J. A., Paris, France. Velocipede	288,821	Nov. 20	1298	355 356	25	748
Larsen, Anders, Terrace, Utah. Composition for suppositories	273,552	Mar. 6	402	.....	23	903
Larsen, George, assignor of one-half to J. F. E. Hopper, San Leandro, Cal. Two-wheeled vehicle	286,314	Oct. 9	679	181	25	133
Larsen, John. (See Coulthard and Larsen.)						
Larsen, Martin J., Chicago, Ill. Endless-band propeller	278,027	May 22	1850	505	23	1963
Larsen, Niels, West Point, Nebr. Sun-dial	281,527	July 17	1484	407 408	24	274
Larson, Albert J., Newhall, Cal. Harness line-holder	288,246	Nov. 13	566	157	25	615
Larson, Christopher, Chicago, Ill. Desk	278,152	May 22	2001	550	23	1990
Larson, Emanuel. (See Sjölinder and Larson.)						
Larsson, Albert P., Omaha, Nebr. Horse-detacher	290,072	Dec. 11	868	246	25	1047
Larter, Robert, assignor to himself and J. E. Hedden, East Orange, N. J. Mechanical movement	279,571	June 19	1203	333	23	2342
Lartigue, Charles F. M. T., assignor to H. Carpentier, Paris, France. System of transport on a single rail	270,063	Jan. 2	296	88	23	60
Larus, Charles D. & Herbert C. (See Mahon, Aurelius W., assignor.)						
Larzelere, Henry B., Greencastle, Pa. Hoisting apparatus	281,528	July 17	1485	408	24	274
Lasar, Godfrey H., St. Louis, Mo. Plug-tobacco-tagging machine	272,271	Feb. 13	852	238	23	600
Lascell, George W., *et al.* (See Silliman, Herbert R., assignor.)						
Lash, John S., assignor to J. D. Nevins, A. French, C. M. Rathburn, Philadelphia, and J. B. Cotton, Chester, Pa. Stove-lid lifter	281,278	July 17	1172	324	24	220
Lasher, Frank, Bennington, Vermont. Stocking	271,338	Jan. 30	1870	542	23	377
Lasher, Morgan E., Champaign, Ill. Hame-tug	273,743	Mar. 13	649	173	23	953
Laskey, John H., assignor of one-half to I. F. Dobson, Boston, Mass. Self-leveling berth	270,084	Jan. 2	298	89	23	61
Laskey, John H., Boston, assignor of one-half to M. M. Wilcox, New Bedford, Mass. Self-leveling berth	288,822	Nov. 20	1300	356	25	748
Laskey, Stephen, Chicago, Ill. Overalls	272,065	Feb. 13	599	162	23	556
Lasor, Sanford W., assignor to C. Chambers, Jr., Philadelphia, Pa. Sand-scraper for brick-machines	285,043	Sept. 18	1097	306	24	1106
Lassen, Charles, Racine, Wis. Safety quilt-holder	275,671	Apr. 10	1052	285	23	1414
Latowski, Robert, Oels, Prussia, Germany. Pneumatic bell-ringing apparatus	284,311	Sept. 4	189	54	24	936
Latshaw, Hezekiah, Wolcottsville, N. Y. Connecting device for winker-straps	270,958	Jan. 23	1407	405	23	291
Latshaw, John, Indianapolis, Ind. Sand-molding machine	283,905	Aug. 28	1733	489	24	837
Latta, Adrian C., *et al.* (See Latta, Emmit G., assignor.)						
Latta, Emmit G., assignor of one-half to A. C. Latta, Friendship, N. Y. Bicycle	280,633	July 3	354	98, 99	24	62
Latta, Emmit G., assignor of two-thirds to A. C. Latta, Friendship, and H. D. Blakeslee, Buffalo, N. Y. Trace-buckle	283,259	Aug. 14	946	264	24	676
Latta, Emmit G., assignor of two-thirds to A. C. Latta, Friendship, and H. D. Blakeslee, Buffalo, N. Y., Trace-carrier	283,260	Aug. 14	947	264	24	676
Lattimer, Francis, assignor of ten twenty-fourths to J. Ahern, Richmond, Nova Scotia, W. H. Bates, A. Carter, A. Smith, W. F. Linton, W. McCully, S. E. Gourley, and L. J. Walker, Truro, Canada. Knob attachment	271,479	Jan. 30	2062	593	23	412
Lattimer, Francis, assignor of ten twenty-fourths to J. Ahern, Richmond, Nova Scotia, W. H. Bates, A. Carter, A. Smith, W. F. Linton, W. McCully, S. E. Gourley, and L. J. Walker, Truro, Canada. Knob attachment	290,247	Dec. 18	1082	302	25	1094
Latting, Richard G., Jr. (See Milburn and Latting.)						
Lau, Albert H., assignor to W. Irelan, Jr., and M. B. Lau, San Francisco, Cal. Locking device for whip-sockets	290,073	Dec. 11	868	247	25	1047
Lau, Margaret B., *et al.* (See Lau, Albert H., assignor.)						
Laub, Henry C. (See Austin, Dinsmore, assignor.)						
Laub, James W., Chapman, Nebr. Hog-ringer	282,909	Aug. 7	517	145	24	592
Laubach, Henry C., Philadelphia, Pa., assignor to E. L. Bartlett, Baltimore, Md. Drill-rest	284,967	Sept. 11	988	278	24	1081
Laubenberger, Philip, Brooklyn, N. Y. Guard for safe-locks	274,346	Mar. 20	1421	389	23	1094
Lauckner, Richard, Bay City, Mich. Valve	288,350	Nov. 13	704	193	25	638
Lauckner, Richard, Bay City, assignor of one-half to S. Jocken, East Saginaw, Mich. Boiler-feeder	281,380	July 17	1298	359	24	242
Lauder, George. (See Wilson, Duncan, and Lauder.)						
Lauder, James. (See Walker and Lauder.)						
Laue, Paul. (See Ryan and Laue.)						
Laufenburg, Michael N., assignor to Baker & Hamilton, San Francisco, Cal. Derrick-table and feeder for thrashing-machines	286,316	Oct. 9	684	182	25	134
Lauffer, Christian F., assignor to himself and P. Goepel, New York, N. Y. Corset-clasp	281,771	July 24	1810	494	24	334
Lauffer, Emil I. (See Berchtold and Lauffer.)						
Lauga, Charles. (See Landry and Lauga.)						
Laughinghouse, Edward S., Kinston, N. C. Feed mechanism for saw-mills	284,443	Sept. 4	345	95	24	962
Laughlin, Demetrius L., Rush County, Ind. Vehicle-shaft support	288,071	Nov. 6	348	97	25	567

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Laughlin, Hugh, and E. Baumgardner, East Palestine, Ohio. Weigh-box	284,864	Sept. 11	866	243	24	1058
Laughlin, John L., Racine, Wis. Adjustable harrow	274,125	Mar. 20	1137	313	23	1044
Laughlin, John L., Racine, Wis. Cultivator	274,126	Mar. 20	1137	313	23	1044
Laughlin, William H., Oberlin, Ohio. Key for musical instruments	274,504	Mar. 27	1646	458	23	1140
Laumaster, Winfield S., Philadelphia, Pa. Glass-bodied vessel for oil	280,048	June 26	1778	499	23	2448
Laumaster, Winfield S., Philadelphia, Pa. Shipping-can	286,831	Oct. 16	1322	360	25	255
Laupher, Charles W., Norwich, N. Y. Brake for locomotives and tenders	275,831	Apr. 17	1261	347	23	1457
Laure, Aimé, Mazamet, France. Depilating	285,044	Sept. 18	1098	.....	24	1106
Laurenson, Henry. (See Laurenson, Stadon, and Laurenson.)						
Laurenson, John M., S. M. Stadon, and H. Laurenson, Moreland, Pa. Grain separator and cleaner	270,816	Jan. 16	1225	354	23	255
Lauten, Frank H., assignor of part to E. Saunders and H. Carter, New York, N. Y. Paper-feeding machine	283,906	Aug. 28	1733	489 490	24	637
Lauterman, Benjamin F., Chicago, Ill. Cutter-head	286,450	Oct. 9	840	227	25	163
Lauth, Jacob, Milwaukee, Wis. Thill-coupling	271,642	Feb. 6	71	20	23	453
Lauth, John N., Howard, Pa., and O. B. Hardy, San Francisco, Cal. Safe	283,120	Aug. 14	772	217	24	644
Lavallée, Augustin, *et al.* (See Therrien, Louis C., assignor.)						
Lavendol, Gabriel S., New York, N. Y. Apparatus for raising barrels or kegs for tapping	289,664	Dec. 4	362	102	25	951
Laverty, William A., Philadelphia, Pa. Suspenders	276,834	May 1	390	103	23	1694
Laverty, William A., Philadelphia, Pa. Suspender	282,736	Aug. 7	320	91	24	556
Lavery, Richard, Boston, Mass. Differential gearing for hoisting and other purposes	281,195	July 10	1061	292	24	194
Lavery, Richard, Boston, Mass. Differential gearing for hoisting and other purposes	286,206	Oct. 9	521	144	25	106
Lavin, John B. (See Herrman and Lavin.)						
Law, Alexander. (See Jenkins, Law, and Price.)						
Law, Lizzie H., Providence, R. I. Safety-pocket	288,458	Nov. 13	851	230	25	663
Lawler, James J., Scranton, Pa. Apparatus for compressing air	272,711	Feb. 20	1418	398	23	703
Lawlor, Michael J., Poughkeepsie, N. Y. Brake for elevators and dumb-waiters	276,052	Apr. 17	1524	419	23	1503
Lawrason, George B. (See Taylor, Thomas, assignor.)						
Lawrence, Alvin, Lowell, Mass. Clock-escapement	280,936	July 10	748	208	24	137
Lawrence, C. H. (See Wentling, Adam, assignor.)						
Lawrence, Charles W., Chelsea, assignor to Lawrence White Iron Portable Grist Mill Company, Boston, Mass. Grinding-mill	270,817	Jan. 16	1226	354	23	255
Lawrence, Charles W., Chelsea, assignor to Lawrence White Iron Portable Grist Mill Company, Boston, Mass. Grinding-mill	272,272	Feb. 13	854	239	23	601
Lawrence, Evan H., Social Circle, Ga. Medicinal compound	276,835	May 1	390	.....	23	1694
Lawrence, Frank G., Boston, Mass. Car-coupling	272,712	Feb. 20	1420	398	23	703
Lawrence, Frank P. (See Trerwiler and Bast, assignors.)						
Lawrence, Franklin M., Portland, Me. Grate	282,333	July 31	2534	694	24	462
Lawrence, Frederick W., Brooklyn, N. Y. House	288,072	Nov. 6	349	97	25	567
Lawrence, George A., New York, N. Y., and E. J. Frost, Philadelphia, Pa. Ore-reducing furnace	287,945	Nov. 6	197	57	25	541
Lawrence, George H., assignor of one-half to W. A. Harder, Lansingburg, N. Y. Sewing-machine trimmer	290,895	Dec. 25	1938	534	25	1249
Lawrence, George T., Greenfield, Mass. Chin-rest for violins	275,672	Apr. 10	1052	286	23	1414
Lawrence, J. P. (See Howe, Jesse A., assignor.)						
Lawrence, John D. and W. C., New York, N. Y. Curry-comb	276,696	May 1	207	53	23	1660
Lawrence, Mortimer D., assignor to himself and P. T. Birchard, Marshalltown, Iowa. Carriage-pole	273,553	Mar. 6	403	108	23	903
Lawrence White Iron Portable Grist Mill Company. (See Lawrence, Charles W., assignor.)						
Lawrence, William C. (See Lawrence, John D. and W. C.)						
Lawrence, William E., New York, N. Y. Curry-comb	272,558	Feb. 20	1223	342	23	669
Lawrence, William E., New York, N. Y. Wrench	285,415	Sept. 25	1540	434	24	1190
Lawson, Allison W., Midway, Ala. Ringing burglar-alarm	277,296	May 8	980	263	23	1801
Lawson, Edward, Utica, N. Y. Sewer and water trap	274,204	Mar. 20	1227	337	23	1061
Lawson, Enoch, San Francisco, Cal. Steam bell-ringer	276,185	Apr. 24	1690	467	23	1540
Lawson, Enoch, San Francisco, Cal. Vehicle-wheel	280,634	July 3	357	99	24	63
Lawson, Enoch, San Francisco, Cal. Door-bell	286,714	Oct. 16	1161	318	25	229
Lawton, John E., Boston, Mass. Leather-folding machine	285,823	Oct. 2	49	16	25	11
Lawton, Walter T. (See Jones, Joseph D., assignor.)						
Lawver, Michael, *et al.* (See Morgan, Edgar H. and C, assignors.)						
Lay, Joseph, Olmsted, Ohio. Broom	272,890	Feb. 27	1675	468	23	755
Laycock, John, and T. Clapham, Keighley, county of York, England. Apparatus for scrubbing and washing gas	282,994	Aug. 14	610	173	24	616
Laycock, William S., Sheffield, county of York, England. Spring-roller	271,339	Jan. 30	1870	542	23	377
Layng, George, Worcester, Mass. Trundle	285,416	Sept. 25	1541	434	24	1190
Layng, George, assignor to S. W. Goddard, Worcester, Mass. Belt-shipper for spinning and twisting frames	290,779	Dec. 25	1795	495	25	1225
Lazelle, James L., Jersey City, N. J. Circuit-closer for burglar-alarms	289,665	Dec. 4	363	102 103	25	951
Le Baron, Robert, Pontiac, Mich. Splint	282,650	Aug. 7	210	61	24	536
Le Beau, John J. (See Vance, John D., assignor.)						
Le Bourgeois, Edward C., Springfield, Mass. Production of paper-pulp from sugar-cane or other fibrous vegetable substances	278,977	June 5	441	.....	23	2199
Le Bourgeois, Edward C., Springfield, Mass. Manufacture of railway-ties from the refuse of sugar-cane	278,978	June 5	442	.....	23	2199
Le Bourgeois, Edward C., Springfield, Mass. Producing pulp from sugar-cane, &c	287,302	Oct. 23	1931	.....	25	369
Le Coultre, Ami, Geneva, Switzerland. Stop-watch	284,444	Sept. 4	346	96	24	962
Le Duke, Jeremiah, Berea, Ohio. Hoisting-crane	290,074	Dec. 11	869	247	25	1047
Le Grande, William W., Louisville, Ky. Leveling-instrument	277,037	May 8	662	172	23	1745
Le Grande, William W., assignor of three-fourths to G. Wolf, F. De Funiak, and T. J. Pottinger, Louisville, Ky. Electric railway-signal	272,142	Feb. 13	696	190 191	23	572
Le Grande, William W., assignor of three-fourths to G. Wolf, F. De Funiak, and T. J. Pottinger, Louisville, Ky. Electric railway-signal	272,276	Feb. 13	858	240	23	601
Le Grande, William W., assignor to National Electric Railway Signal Company, Louisville, Ky. Electrical connection for railway-rails	285,494	Sept. 25	1631	458	24	1206
Le Grande, William W., assignor to National Electric Railway Signal Company, Louisville, Ky. Electric railway-signal	287,446	Oct. 30	2107	573	25	409
Le Gros, Alfred P., Louisville, Ky. Car-roof	280,635	July 3	358	99	24	63
Le Mée, Charles, Yffiniac, France. Apparatus for mixing meal or flour	286,716	Oct. 16	1183	318	25	230
Le Moult, Adolphe, New York, N. Y. Florist's frame and stand	284,745	Sept. 11	725	202	24	1033
Le Poidevin, Thomas, Guernsey, England. Machinery for molding bricks and tiles	271,875	Feb. 6	348	97	23	502
Le Roy, John W. (See Gardner, Le Roy, and Tinker.)						
Le Vin, George W., *et al.* (See Beck, Marshall, assignor.)						
Lea, Henry, Birmingham, county of Warwick, England. Incandescent electric lamp	273,554	Mar. 6	403	108	23	903

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lea, Henry E., assignor to W. S. Ray, San Francisco, Cal. Metal-tube former	275,504	Apr. 10	837	227	23	1377
Lea, John, London, county of Middlesex, England. Electric-arc lamp	281,891	July 24	1965	537, 538	24	361
Leach, Charles J., and A. Olds, Hartford, Mich. Combined grain scale, bagger, and register	287,692	Oct. 30	2437	656	25	474
Leach, Cornelius D., Union City, Mich. Cotton-harvester	284,642	Sept. 11	587	166	24	1010
Leach, Jesse L., Philadelphia, Pa., assignor to S. B. Ryder, Elizabeth, N. J. Carpet-cleaner	286,832	Oct. 16	1323	361	25	255
Leach, William F., Franklin, Ind. Table for tile-machines	279,259	June 12	801	222	23	2370
Leach, William F., assignor to B. F. Crampton, St. Clair, Mich. Portable steam-auger	271,480	Jan. 30	2063	594	23	412
Leader Sewing Machine Company. (See Osborn, John H., assignor.)						
Leadley, James E. (See Hanlon and Leadley.)						
Leadley, James E. (See Hanlon, Leadley, and Gibbs.)						
Leadley, James E., Camden, N. J., and J. Hanlon, New York, N. Y., assignors to United Gas Improvement Company, Philadelphia, Pa. Steam gas-exhauster	271,874	Feb. 6	348	97	23	502
Leadley, James E., Camden, N. J., assignor of one-half to J. Hanlon, New York, N. Y. Water-protected valve	289,277	Nov. 27	1844	509	25	855
Leadley, James E., Camden, N. J., assignor of one-half to J. Hanlon, New York, N. Y. Apparatus for generating heating or illuminating gas	289,278	Nov. 27	1845	509, 510	25	856
Leadley, James E., Camden, N. J., assignor of one-half to J. Hanlon, New York, N. Y. Process of and apparatus for manufacturing gas	289,279	Nov. 27	1847	510, 511, 512	25	856
Leadley, James E., Camden, N. J., assignor of one-half to J. Hanlon, New York, N. Y. Process of and apparatus for manufacturing gas	289,280	Nov. 27	1850	513	25	857
Leadley, James E., Camden, N. J., assignor of one-half to J. Hanlon, New York, N. Y. Process of and apparatus for manufacturing gas	289,281	Nov. 27	1853	514, 515	25	857
Leadley, James E., Camden, N. J., assignor of one-half to J. Hanlon, New York, N. Y. Steam-boiler	289,282	Nov. 27	1856	515	25	858
Leake, Lewis C., Millville, N. J., assignor to J. Whitall, R. P. Smith, Philadelphia, Pa., J. Mickle, Millville, N. J., W. H. Nicholson, C. Roberts, Philadelphia, Pa., and C. A. Tatum, New York, N. Y. Druggist's graduate	272,713	Feb. 20	1422	398	23	704
Leaming, Christopher, assignor to W. H. Carlson, Newhall, Cal. Door-securer	288,179	Nov. 6	478	132	25	590
Leamy, John, *et al.* (See Wolfe, Harvey R., assignor.)						
Lear, Samuel, Pottsville, Pa. Sash-holder	278,439	May 29	2401	654	23	2068
Learmonth, James, Corsicana, Tex. Car-coupling	282,910	Aug. 7	518	145	24	592
Learned, Edward A., assignor of one-half to H. S. Durden and H. L. Welch, San Francisco, Cal. Buck-saw	277,141	May 8	802	210	23	1769
Leas, Asa, West Manchester, Ohio. Scoop-balance attachment for weighing-scales	287,136	Oct. 23	1714	469	25	331
Leas, J. Silas. (See Hanson and Leas.)						
Leather, John H., Cleckheaton, county of York, England. Carding-cylinder	285,631	Sept. 25	1798	512	24	1238
Leavenworth, Mark R., Bridgeport, Conn. Stove-truck	286,715	Oct. 16	1182	318	25	230
Leavitt, Erasmus D., Jr., Cambridgeport, Mass. Steam-stamp for crushing ore	275,224	Apr. 3	438	120, 121, 122	23	1301
Leavitt, Erasmus D., Jr., Cambridge, Mass., assignor to D. S. Hines, W. A. Perry, and C. C. Worthington, New York, N. Y. Direct-acting compound engine	283,261	Aug. 14	948	265	24	676
Leavitt, George A., Jr., New York, N. Y. Folding chair	272,273	Feb. 13	856	239	23	601
Leavitt, Rufus, assignor to Howe Machine Company, Bridgeport, Conn. Sewing-machine	285,417	Sept. 25	1542	435, 436	24	1191
Leavitt, Rufus, assignor to Howe Machine Company, Bridgeport, Conn. Sewing-machine shuttle	285,418	Sept. 25	1547	436	24	1191
Leaycraft, Edwin S., Jersey City, N. J. Pneumatic sweeping apparatus	279,572	June 19	1205	333	23	2342
Leaycraft, Edwin S., Jersey City, N. J. Mandrel for bending tubes	279,573	June 19	1206	333	23	2342
Leaycraft, Edwin S., Jersey City, N. J. Delivery-switch for pneumatic tubes	279,574	June 19	1207	333, 334	23	2342
Leaycraft, Edwin S., Jersey City, N. J. Pipe-coupling	279,575	June 19	1208	334	23	2343
Leaycraft, Edwin S., Jersey City, N. J. Flanged clamp	279,576	June 19	1209	334	23	2343
Lebacq, Francois, Brussels, Belgium. Self-leveling berth	282,649	Aug. 7	209	61	24	536
Lebaudy, Gustave and J., Paris, France. Apparatus for the manufacture of sugar in ingots	270,818	Jan. 16	1228	355	23	255
Lebaudy, Jules. (See Lebaudy, Gustave and J.)						
Leblond, Eugéne F., Paris, France. Machine for preparing and distributing tobacco	290,333	Dec. 18	1196	335	25	1113
Lechner, Samuel C., Columbus, Ohio. Coal-mining machine	287,032	Oct. 23	1586	437	25	306
Leclère, Francis, Philadelphia, Pa. Brake mechanism for anchor shuttle-box motions for looms	274,127	Mar. 20	1138	313	23	1044
Lecrone, Emanuel K., York, Pa. Washing-machine	289,775	Dec. 4	500	138	25	973
Leder, George, Demopolis, Ala. Oil-mat	274,128	Mar. 20	1140	314	23	1044
Lederer, Charles, and F. X. Marks, Norfolk, Nebr. Car-brake	281,085	July 10	917	256	24	169
Lederer, Charles, assignor to B. W. Jonas and C. M. Selby, Norfolk, Nebr. Automatic car-scale	283,619	Aug. 21	1381	386	24	762
Lederer, Jacob. (See Falkenberg and Lederer.)						
Lederer, Sigmund L., New York, N. Y. Ornamental chain	273,744	Mar. 13	650	173	23	954
Lederle, Joseph. (See Giel, Franz S., assignor.)						
Ledig & Herrlein. (See Nacke, Arnold, assignor.)						
Leduc, Constant, San Francisco, Cal. Life-preserver	282,651	Aug. 7	211	61	24	536
Lee, Charles, Dadeville, Mo. Seed-planter	276,433	Apr. 24	2007	556	23	1594
Lee, Charles A., Arlington, Tex. Miner's lamp	284,865	Sept. 11	867	243	24	1058
Lee, Charles A., Saginaw, Mich. Splint-cutting machine	290,439	Dec. 18	1342	372	25	1138
Lee, Charles E., assignor of one-half to M. M. Houck, New Britain, Conn. Permutation-lock	275,673	Apr. 10	1053	286	23	1414
Lee, David C., St. Louis, Mo. Wheel-hoe	282,202	July 31	2370	652	24	433
Lee, David P. (See Romine and Lee.)						
Lee, Earl, Corona, N. Y. Portable house	290,991	Dec. 25	2072	570	25	1270
Lee, Frederick J., Oswego, Kans. Door-latch	286,935	Oct. 16	1453	399	25	276
Lee, Frederick J., Oswego, Kans. Door-catch	289,666	Dec. 4	364	103	25	951
Lee, George W. (See Lee, Luther B. and G. W.)						
Lee, Harry C., Brooklyn, N. Y. Wire mask	287,137	Oct. 23	1715	470	25	332
Lee, Henry A., New York, N. Y. Fire-escape	283,620	Aug. 21	1382	386	24	763
Lee, Homer, New York, N. Y. Plate-printing machine	282,995	Aug. 14	612	173, 174, 175, 176	24	616
Lee, John, Russell, Ohio. Building-brick	274,449	Mar. 20	1556	426	23	1118
Lee, John, Hazleton, Pa. Gage-cock	276,836	May 1	391	103	23	1694
Lee, John, Sterling, Ohio. Wrench	288,713	Nov. 20	1164	319	25	724

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Lee, John O., St. Paul, Minn. Grain-binder	279,773	June 19	1428	399, 400	23	2382
Lee, Jonas T. B., Toronto, Ontario, Canada. Mop-holder	283,121	Aug. 14	773	217	24	645
Lee, Joseph, assignor of one-third to R. Fishwick, Garnerville, N. Y. Stop chamfer plane	272,274	Feb. 13	857	239	23	601
Lee, Lewis H. (See Whiteley, Bayley, and Lee.)						
Lee, Luther B. and G. W., Ridgewood, N. Y. Head-net for horses	284,445	Sept. 4	347	96	24	962
Lee, Oakley T., Brooklyn, N. Y. Dish or plate lifter	271,340	Jan. 30	1871	543	23	377
Lee, Ogden G., Poughkeepsie, N. Y. Fire-escape	282,996	Aug. 14	624	176	24	617
Lee, Seth, and R. Weir, Muskegon, Mich. Elevating machine for cross-piling lumber	288,073	Nov. 6	350	98	25	567
Lee, Thomas, assignor of one-half to A. Record, East Livermore, Me. Apparatus for preserving eggs	269,866	Jan. 2	53	17	23	13
Lee, Thomas B., *et al.* (See Galentine, Elias C., assignor.)						
Lee, Thomas L., Paducah, Ky. Barrel-former	290,334	Dec. 18	1197	335	25	1113
Lee, Thomas L., Paducah, Ky. Ventilated barrel	290,335	Dec. 18	1198	336	25	1114
Lee, Washington I., Peekskill, N. Y. Baking-pan	289,667	Dec. 4	365	103	25	951
Lee, William A., Winfield, Kans. Plow	290,896	Dec. 25	1940	535	25	1249
Lee, William W., Northampton, Mass. Lathe-chuck	277,908	May 22	1704	465	23	1939
Leech, Thomas. (See Knight, John J., assignor.)						
Leech, William T., Philadelphia, Pa. Apparatus for covering rollers with toothed metal	277,297	May 8	980	263	23	1801
Leeds, Lodowick, New London, Conn. Folding bed	278,564	May 29	2547	694, 695	23	2093
Leeds Manufacturing Company. (See McCallum, Neil, assignor.)						
Leeds, Robinson & Co. (See Gardiner, Charles B., assignor.)						
Leerbech, John E. V., Aalborg, and F. D. Volkersen, Elsinore, Denmark. Gun-rest	271,251	Jan. 30	1753	507	23	357
Lees, William, *et al.* (See Sumner, Herbert, assignor.)						
Lees, William. (See Ashbury, Sumner, Lees, and Sanderson.)						
Leet, Charles S., Bridgeport, Conn. Cartridge-shell extractor	282,997	Aug. 14	625	177	24	618
Leet, Charles S., Bridgeport, Conn. Gun-wiper	288,459	Nov. 13	852	230	25	664
Leet, Charles S., and W. H. Northall, Bridgeport, Conn.; said Northall assignor to said Leet. Cartridge-closing machine	287,693	Oct. 30	2438	656	25	474
Leet, James, and A. C. Israel, Kimmswick, Mo. Railway-switch	278,344	May 29	2284	624	23	2047
Leete, Frank, and W. C. Wilbur, Mapleton, Iowa. Butter-case	275,225	Apr. 3	441	122	23	1302
Lefevre, Julius, *et al.* (See Keller, William, assignor.)						
Lefferts, Leffert, New York, N. Y. Hydrocarbon-burner for furnaces	289,424	Dec. 4	62	18	25	897
Lefferts, Marshall C., assignor to Celluloid Manufacturing Company, New York, N. Y. Process of and apparatus for lining hollow articles with celluloid, &c	281,529	July 17	1487	408	24	274
Leffingwell, Christopher, Clarksburg, Ohio. Straw-stacker	277,750	May 15	1515	411	23	1899
Leffingwell, John G., assignor of one-half to R. B. Edwards, Newark, N. J. Box-fastener	290,992	Dec. 25	2074	571	25	1270
Leffler, Samuel, Ainsworth, Iowa. Ditching-machine	269,946	Jan. 2	149	43	23	31
Legan, Josiah. (See Massie and Legan.)						
Leger, Edward, Chicago, Ill. Show-stand	271,719	Feb. 6	158	44	23	468
Legg, Benjamin A., assignor to J. A. Jeffrey, Columbus, Ohio. Chain	282,536	Aug. 7	74	21	24	513
Leggett, William, New York, N. Y. Toy	277,581	May 15	1321	355	23	1864
Leggett, William, New York, N. Y., assignor to J. N. Bookstaver, Rutherford, N. J. Toy	272,275	Feb. 13	858	240	23	601
Leggett, William, New York, N. Y., assignor to J. N. Bookstaver, Rutherford, N. J. Carriage-curtain fastening	273,745	Mar. 13	651	173	23	954
Leggott, William, Bradford, county of York, England. Transom-lifter	282,334	July 31	2535	694	24	462
Lehman, Henry J. (See Berchtold and Lauffer, assignors.)						
Lehmann, Adolf, New York, N. Y. Car-coupling	288,074	Nov. 6	352	98	25	567
Lehr, John, Darmstadt, Ill. Glass-washer	274,792	Mar. 27	1988	553	23	1200
Lehr, William. (See Sunderland, Lee W., assignor.)						
Leigh, Edward B., assignor to American Brake Company, St. Louis, Mo. Locomotive-brake	278,242	May 22	2119	584	23	2010
Leighton, George A. (See Carter, William, assignor.)						
Leighton, George A., Manchester, N. H. Circular-knitting machine	272,559	Feb. 20	1223	342	23	669
Leighton, George A., Manchester, N. H. Knitting-machine	272,560	Feb. 20	1225	342, 343, 344	23	669
Leighton, George A., Manchester, N. H. Knitting-machine	272,561	Feb. 20	1237	345	23	671
Leighton, James T., New Haven, Conn. Car-wheel	284,028	Aug. 28	1909	535	24	860
Leighton, William E., West Pembroke, Me. Reed-organ	276,837	May 1	391	104	23	1695
Lein, John P. (See Hoye, Stevie M., assignor.)						
Leip, George A., Leadville, Colo. Hair-tonic	285,045	Sept. 18	1099	.....	24	1106
Leitelt, Adolph. (See Eldredge, Alonzo, W., assignor.)						
Leiter, Winfield S. (See Isard and Leiter.)						
Leland, Edgar H., East Templeton, Mass. Turning-lathe	275,051	Apr. 3	219	59, 60	23	1264
Leland, Edwin A., assignor of three-fourths to C. P. Lyman and H. K. Hawes, Holyoke, Mass. Device for blowing locomotive-whistles automatically	278,440	May 29	2401	654	23	2068
Lelie, Emile C., St. Genevieve, Mo. Hame-tug	287,138	Oct. 23	1716	470	25	332
Lelm, Otto, London, England. Apparatus for stretching gelatine coated sheets	275,226	Apr. 3	442	123	23	1302
Lemaire, Jean T., assignor to A. Cremer-Pirnay & Cie., Hodimont-Verviers, Belgium. Lap-forming machine	276,606	May 1	78	21, 22	23	1641
Leman, Frank, Elgin, Ill. Dial-spacing machine	283,350	Aug. 14	1060	298, 299	24	698
Lemassena, Theodore F., Newark, N. J. Pump-valve	289,668	Dec. 4	366	103	25	951
Lembcke, Robert, Hoboken, N. J Electric toy	278,565	May 29	2548	695	23	2094
Lemieux, John B., Muskegon, Mich. Slab-sawing machine	290,589	Dec. 18	1540	424	25	1173
Leming, Adolphus G., Waldon, Ark. Type-writing machine	285,141	Sept. 18	1216	342, 343	24	1126
Leming, Charles J. (See Noble, John E., assignor.)						
Lemmon, Henry, Guelph, Ontario, Canada. Combination-lock	280,488	July 3	191	50, 51	24	35
Lemmon, John. (See Cooper and Lemmon.) (Reissue.)						
Lemmon, William W., Portersville, Ind. Sewer-trap	280,193	June 26	1931	543	23	2477
Lemon, Jacob N., *et al.* (See Aldrich, Hosea I., assignor.)						
Lemon, James, *et al.* (See Chinnock, George H., assignor.)						
Lemon, Samuel H., New York, N. Y. Spirit-level	281,086	July 10	918	256	24	169
Lemos, Leon, San Francisco, Cal. Shirt	285,046	Sept. 18	1099	306	24	1106
Lenderoth, Wilhelm, New York, N. Y. Underground tube for telegraph-wires	284,643	Sept. 11	590	166	24	1010
Lendrum, George. (See Vellacott, James R., assignor.)						
Lenhardt, George, Detroit, Mich. Rotary motor	272,562	Feb. 20	1242	345	23	672
Lenhart Arthur, Portland, Oreg. Car-coupling	286,207	Oct. 9	522	144	25	107
Lennards, Nicholas, Harvard, Ill. Measuring device for tailors, &c	281,530	July 17	1489	409	24	274
Lennon, Michael, Somerville, Mass. Portable grinding apparatus	287,447	Oct. 30	2109	573	25	409
Lennon, Nelson, Ceylon, Ohio. Shifting-rail for vehicles	289,845	Dec. 11	596	165, 166	25	998

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Lennon, Sayres N., Ceylon, Ohio. Buggy-top. (Reissue)	10,380	Sept. 11	1022	287	24	1087
Lennon, Sayres N., Ceylon, assignor of two-thirds to A. H. Winchell, Huron, Ohio, and G. F. Gardner, Hilladale, Mich. Buggy-top	288,247	Nov. 13	567	157, 158	25	615
Lennox, David, Marshalltown, assignor to C. E. Tibbles, Burlington, Iowa. Device for tapping gas and water mains	284,746	Sept. 11	725	202, 203	24	1033
Lenox, Edwin S., Worcester, Mass. Barbed fence-wire	272,563	Feb. 20	1243	346	23	672
Lenox, Edwin S., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Wire bale-tie	272,891	Feb. 27	1676	469	23	755
Lenox, Edwin S., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Bale-tie fastening	280,636	July 3	359	100	24	63
Lensing, Bernard, Evansville, Ind. Tree-box	280,637	July 3	360	100	24	63
Lent, Andrew, *et al.* (See Baker, William H., assignor.)						
Lenz, Frank, Brooklyn, N. Y. Stem-setting attachment for watches	288,075	Nov. 6	353	98	25	568
Leonard, Arthur G., New York, N. Y. Railway-signal	285,632	Sept. 25	1799	512	24	1238
Leonard, Charles H., Detroit, Mich. Mailing-packet	281,892	July 24	1967	538	24	361
Leonard, Francis H., Jr. (See Pidgin and Leonard.)						
Leonard, Francis H., Boston, Mass. Chimney-cap	287,553	Oct. 30	2243	609	25	437
Leonard, Francis H., and S. D. Snow, Boston, Mass. Car-coupling	285,419	Sept. 25	1549	436	24	1191
Leonard, George A. (See Simmons, Edmond S., assignor.)						
Leonard, George D., *et al.* (See Fryer, Robert M., assignor.)						
Leonard, Henry, Cambridge, Vt. Pouring-spout for milk-pails	272,714	Feb. 20	1423	399	23	704
Leonard, Henry C., Covington, Ky. Spinning-machine	282,203	July 31	2371	652	24	433
Leonard, Henry P., Boston, Mass. Wig-block holder	282,537	Aug. 7	75	22	24	513
Leonard, Richard A., Fitchburg, Mass. Mowing-machine	274,703	Mar. 27	1989	553	23	1200
Leonard, Richard A., Fitchburg, Mass. Mowing-machine	275,227	Apr. 3	443	123	23	1302
Leonard, Sumner J. (See Hewett and Leonard.)						
Leonard, Thomas W., Detroit, Mich. Self-sharpening horseshoe	269,947	Jan. 2	150	44	23	31
Leonard, William F. (See Schruben and Leonard.)						
Leonard, William G., New York, N. Y., assignor to C. Parker Company, Meriden, Conn. Lamp-fount	281,531	July 17	1490	409	24	275
Leonard, William H., Philadelphia, Pa. Fire-hydrant	287,554	Oct. 30	2244	609	25	437
Leonardy, Sydney B., Tampa, Fla. Ointment	271,341	Jan. 30	1872	.....	23	377
Leonhardt, John H. (See Leonhardt, William and J. H.)						
Leonhardt, Martin W., Sedalia, Mo. Millstone paint-staff	273,555	Mar. 6	405	108	23	903
Leonhardt, William and J. H., Baltimore County, Md. Dumping-wagon	283,262	Aug. 14	950	265	24	676
Leopold, Charles F. (See Veerkamp, Leopold, and Darker.)						
Lepper, Henry E., Carson, Nev. Lubricating compound	278,243	May 22	2121	.....	23	2011
Lepper, William, Cleveland, Ohio. Top-prop	278,244	May 22	2121	584	23	2011
Lepper, William, Cleveland, Ohio. Top-prop	282,998	Aug. 14	626	177	24	618
Lepscum, James C., Clinton, Mo. Wagon-clip	284,029	Aug. 28	1910	535	24	869
Lesen, Marx A., *et al.* (See Chamberlain and Harris, assignors.)						
Lesh, Gabriel B. (See Kehler, Amos, assignor.)						
Lesher, Charles P., Lansing, Mich. Cigar-mold press	278,245	May 22	2122	584	23	2011
Lesher, Joseph, Toledo, Ohio. Channeling-saw	285,633	Sept. 25	1800	513	24	1239
Lesher, William. (See Heller, Daniel C., assignor.)						
Lesley, Robert W. (See Millholland, Henry, assignor.)						
Leslie, Edward A., *et al.* (See Egan, Charles, assignor.)						
Leslie, James G., Oregon, and W. A. Hall, Pine Rock, Ill. Combined wagon-box and hay-rack	277,751	May 15	1517	411	23	1899
Leslie, Joseph C., assignor to W. C. Smith, St. Albans, Vt. Portable saw-table	279,098	June 5	600	163	23	2226
Lesourd, John A., and J. Lotan, Portland, Oreg. Endless-chain carrier and distributer for coal, &c	281,087	July 10	919	257	24	169
Lesourd, John A., and J. Lotan, Portland, Oreg. Hydraulic elevator	286,451	Oct. 9	841	228	25	164
Lesser, Gustav J., Frankfort-on-the-Main, Germany, assignor to R. E. Lester, New York, N. Y. Plastic and elastic composition for forming elastic rolls, elastic pads, and for other useful purposes	276,607	May 1	89	.....	23	1641
Lesser, Gustav J., Frankfort-on-the-Main, Germany, assignor to R. E. Lester, New York, N. Y. Manufacture of glue-size	276,608	May 1	81	.....	23	1642
Lesser, Gustav J., Frankfort-on-the-Main, Germany, assignor to R. E. Lester, New York, N. Y. Coloring glue	276,609	May 1	81	.....	23	1642
Lesser, Max, Athens, Ga. Boot-cleaner	281,893	July 24	1968	538	24	362
Lesson, Philip, Newark, N. J., assignor to L. Schlesinger & Co., New York, N. Y. Child's rattle	276,251	Apr. 24	1770	493	23	1554
Lester, Horace P. (See Atwood and Lester.)						
Lester, Julius M., *et al.* (See Ruggles, Robert B., assignor.)						
Lester, Robert E. (See Lesser, Gustav J., assignor.)						
Lester, Robert E., *et al.* (See Tillou and Clapp, assignors.)						
Letchworth, George J., Buffalo, N. Y. Hame attachment	275,228	Apr. 3	445	124	23	1302
Letchworth, Ogden P. (See Cooper, Edward A., assignor.)						
Letchworth, Ogden P., Buffalo, N. Y. Halter-trimming	272,715	Feb. 20	1423	399	23	704
Létrange, Leon, Paris, France. Process of and apparatus for reducing zinc ores	286,208	Oct. 9	523	144	25	107
Lett, William F. (See Kelly, Michael, assignor.)						
Lettelier, John G., assignor to himself and E. E. Pratt, Chicago, Ill. Combined register and alarm	286,317	Oct. 9	686	182, 183	25	135
Lettenmyer, George, Little Georgetown, W. Va. Harrow	271,202	Jan. 23	1698	490	23	338
Letton, Raphael E., Quincy, Ill. Piano-action	290,692	Dec. 25	1677	462	25	1202
Lettré, Philipp, assignor to Sandland, Capron & Co., Attleborough, Mass. Bracelet	290,590	Dec. 18	1541	424	25	1173
Letz, Louis H., Chicago, assignor of one-half to J. Schrum, Dolton, Ill. Corn-planter	283,621	Aug. 21	1383	387	24	763
Letzkus, John, Allegheny, Pa. Fire-escape	279,774	June 19	1431	401	23	2382
Leuffgen, George, Berlin, assignor to C. A. W. Schön, Hamburg, Germany. Glass-melting furnace	270,594	Jan. 16	949	274, 275	23	203
Levalley, Christopher W., St. Paul, Minn. Grain-binder	282,335	July 31	2536	695	24	462
Lévèque, Camille, Pouzin, France. Portable refining and oxidizing apparatus	290,075	Dec. 11	870	247, 248	25	1047
Levering & Co., E. (See Emerson, John P., assignor.)						
Levering, Franklin W., Baltimore, Md. Spark-arrester	270,445	Jan. 9	752	220	23	156
Levering, William A. (See Stewart, Samuel J., assignor.)						
Levi, Mordical. (See Gates and Levi.)						
Levinstein, Ivan, Manchester, county of Lancaster, England. Manufacture of yellow coloring-matter	289,543	Dec. 4	214	.....	25	924
Levis, O. D. (See Keefer, Israel, assignor.)						
Levison, Philip, Chicago, Ill. Lamp	283,792	Aug. 28	1607	454	24	816
Levison, Wallace G., Brooklyn, N. Y. Electric-light lantern	289,425	Dec. 4	63	18, 19	25	898
Levy, Maurice, Paris, France. Apparatus for regulating the transmission of electric force	273,291	Mar. 6	56	17, 18	23	844

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Levy, Maurice, Paris, France. Apparatus for controlling electric currents	286,833	Oct. 16	1393	361, 362	25	255
Levy, Maurice, Paris, France. Electric regulator for controlling the currents in electrical systems	286,834	Oct. 16	1327	362, 363	25	255
Levy, Michael S., assignor to M. S. Levy & Sons, Baltimore, Md. Manufacture of cloth hats	272,385	Feb. 13	1003	281	23	625
Levy, Sally M., Milwaukee, Wis. Knit foundation for mittens and gloves and making the same	273,111	Feb. 27	1936	542	23	800
Levy, Sally M., Milwaukee, Wis. Knit fabric and constructing the same	280,750	July 3	502	142, 143	24	89
Levy, Samuel, New York, N. Y. Preparation of yeast. (Reissue)	10,341	June 12	1135	.....	23	2324
Levy & Son, Henry. (See Loew, Jacques, assignor.)						
Levy & Sons, M. S. (See Levy, Michael S., assignor.)						
Lewes, Tompkins A., *et al.* (See Wagner and Seath, assignors.)						
Lewin, George W., Fall River, Mass. Sash-holder	270,229	Jan. 9	478	141	23	104
Lewin, John M., Lockport, N. Y., assignor of one-half to S. S. Mutton, Toronto, Ontario, Canada. Bottle-stopper	290,897	Dec. 25	1941	535	25	1250
Lewis, Benjamin B., Bristol, Conn. Mechanical movement	271,481	Jan. 30	2064	594	23	412
Lewis, Benjamin F., Amesbury, Mass. Center-bar for vehicle-springs	285,420	Sept. 25	1550	436	24	1192
Lewis, Benjamin K. (See Wells and Lewis.)						
Lewis, Burdette A., Plainville, Conn. Drawer-pull	289,669	Dec. 4	367	104	25	952
Lewis, Charles, Amsterdam, N. Y., assignor of one-half to R. Tomlinson Spring and Axle Works, Bridgeport, Conn. Machine for bending and forming springs	286,318	Oct. 9	689	183	25	135
Lewis, Charles P., Del Rio, Tex. Harrow	274,347	Mar. 20	1421	389	23	1094
Lewis, Charles S., Waterbury, and G. H. Blakesley, Bristol, Conn. Lock	270,318	Jan. 9	579	170	23	123
Lewis, Charles S., assignor to Waterbury Clock Company, Waterbury, Conn. Pendulum	290,186	Dec. 11	998	281	25	1071
Lewis, Daniel F. (See Fowler and Lewis.)						
Lewis, Daniel L., Bradford, Pa. Oil-well-tubing clamp	277,142	May 8	802	211	23	1770
Lewis, Edward B., Kirby's Creek, Ala. Churn	277,752	May 15	1518	412	23	1899
Lewis, Edward S. (See Brialin, John J., assignor.)						
Lewis, Edward T., Toledo, Ohio. Honey-extractor	278,713	June 5	49	15	23	2133
Lewis, Emma J., San Francisco, Cal. Carpet-fastener	277,143	May 8	804	211	23	1770
Lewis, Francis M., assignor of one-half to K. W. Becker, Lansing, Mich. Toy gun	287,946	Nov. 6	199	58	25	542
Lewis, George R., Fayetteville, Ga. Fertilizer-distributer	272,716	Feb. 20	1424	399	23	704
Lewis, George T., Philadelphia, Pa. Obtaining precious metals from refractory ores	286,025	Oct. 2	301	84	25	56
Lewis, George T., Philadelphia, Pa., assignor to United States Chemical Company, Camden, N. J. Apparatus for grinding substances and mixing the same with liquids	270,904	Jan. 23	1333	385	23	280
Lewis, George W., assignor to S. M. Lewis and E. G. Ghio, Portsmouth, Va. Nail-extractor	270,085	Jan. 2	299	89	23	61
Lewis, H. M., *et al.* (See Starr, Eli T., assignor.)						
Lewis, H. M., *et al.* (See Starr, Eli T. and E. E., assignors.)						
Lewis, H. M., *et al.*, trustees. (See Grout, Charles P., assignor.)						
Lewis, H. M., *et al.*, trustees. (See Starr, Eli T., assignor.)						
Lewis, Harry A., Boston, Mass. Cartridge-feed case	283,122	Aug. 14	773	218	24	645
Lewis, Henry A., Wichita Falls, Tex. Stock-car	276,053	Apr. 17	1524	419	23	1503
Lewis, Henry G. (See Curtis and Lewis.)						
Lewis, Henry G., assignor of one-half to J. H. Wellings and H. C. Hedges, North Lansing, Mich. Cross-bow	289,283	Nov. 27	1857	516	25	858
Lewis, Homer C., Columbus, Ohio. Hinge	279,775	June 19	1433	401	23	2383
Lewis, Jason E., Hesperia, Mich. Harvester cutter-bar	276,838	May 1	392	104	23	1695
Lewis, Jesse V., *et al.* (See Swanson, Nels, assignor.)						
Lewis, John L., Pittsburg, Pa. Treating hot-rolled bars while cooling	278,246	May 22	2123	585	23	2011
Lewis, John L., Pittsburg, Pa. Apparatus for compressing, surfacing, and straightening bars, &c	290,077	Dec. 11	874	248	25	1048
Lewis, Joseph, Chicago, Ill. Dynamo-electric machine	270,230	Jan. 9	479	141, 142	23	104
Lewis, Joseph, Chicago, Ill. Pneumatic grain-elevator	285,047	Sept. 18	1100	307	24	1106
Lewis, Joseph, Chicago, Ill. Bicycle	286,835	Oct. 16	1330	363	25	256
Lewis, Joseph, Chicago, Ill. Pneumatic elevator	287,033	Oct. 23	1587	437	25	306
Lewis, Joseph S., Birkenhead, county of Chester, England. Insulator for telegraph-wires	276,839	May 1	393	104	23	1695
Lewis, Leroy S., Rockville, assignor of one-half to J. T. Goodrich, Norwich, Conn. Fountain-pen	272,066	Feb. 13	600	162	23	556
Lewis, Miles K., and E. Sanders, Hastings, Nebr. Fire-escape	290,076	Dec. 11	873	248	25	1047
Lewis, Mortimer G., *et al.* (See Webster, Hanson S., assignor.)						
Lewis, Mortimer G., Lowville, N. Y. Rotary engine	272,964	Feb. 27	1754	490	23	768
Lewis, Mortimer G., Lowville, N. Y. Bench-vise	279,260	June 12	803	222, 223	23	2271
Lewis, Nathan C., Boston, Mass. Mowing-machine	270,231	Jan. 9	481	142	23	104
Lewis, Orlando E., Columbus, Ohio. Boot or shoe	270,595	Jan. 16	951	275	23	203
Lewis, Orlando E., Columbus, Ohio. Boot or shoe	270,596	Jan. 16	951	275	23	203
Lewis, Orlando E., Columbus, Ohio. Boot and shoe	283,263	Aug. 14	951	265	24	677
Lewis, Rhys F., Wilkes-Barré, Pa. Coal-scuttle	284,030	Aug. 28	1911	535	24	869
Lewis, Samuel M., *et. al.* (See Lewis, George W., assignor.)						
Lewis, Seth F., Buffalo, N. Y. Mechanism for operating sewing-machines	279,959	June 26	1665	468	23	2429
Lewis, Thomas E., Vicksburg, Miss. Shipping-tag	274,348	Mar. 20	1422	390	23	1095
Lewis, Thompkins A., *et al.* (See Wagner and Seath, assignors.)						
Lewis, Warner, Stone Bluffs, Ind. Tire-heating furnace	278,153	May 22	2002	550	23	1990
Lewis, William, Sauk Centre, Minn. Draft-equalizer	276,611	May 1	82	22	23	1642
Lewis, William D., Plymouth, Pa. Artificial leg	278,566	May 29	2549	695	23	2094
Lewis, William D., Plymouth, Pa. Can-opener	289,919	Dec. 11	687	192	25	1013
Lewis, William H. (See Blackwell, Richard C., assignor.)						
Lewis, William H. (See Furman, Samuel M., assignor.)						
Lewis, William H. (See Hughes and Blackwell, assignors.)						
Lewis, William H., Brooklyn, assignor to E. & H. T. Anthony & Co., New York, N. Y. Plate-holder for photographic cameras	272,717	Feb. 20	1425	399	23	704
Lewis, William J., Pittsburg, Pa. Manufacture of barbed fence-rails	278,714	June 5	50	15	23	2133
Libbey, Edward D., *et al.* (See Locke, Joseph, assignor.)						
Libbey, William L., *et al.* (See Locke, Joseph, assignor.)						
Libby, Horace, Lewiston, Me. Jack-screw	286,717	Oct. 16	1183	319	25	230
Libby, Horace, assignor of one-half to H. C. Little, Lewiston, Me. Nut-lock	276,252	Apr. 24	1770	493	23	1554
Libby, Silas F., Milford, Mass. Manufacture of boots and shoes	282,911	Aug. 7	519	145	24	592
Licht, Frederick, Brooklyn, N. Y. Treating unmalted cereals for the manufacture of fermented beverages	288,076	Nov. 6	355	.....	25	568

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Liddell, John P. (See Hawthorn and Liddell.)						
Liddell, John P. (See Hawthorn, Liddell, and Hawthorn.)						
Liddell, Walter J. F., Charlotte, N. C. Setting steam-boilers	271,482	Jan. 30	2065	594, 595	23	413
Liddell, Walter J. F., Charlotte, N. C. Portable press	272,718	Feb. 20	1426	400	23	705
Liddell, Walter J. F., Charlotte, N. C. Hay and cotton press	272,719	Feb. 20	1428	400, 401	23	705
Liddell, Walter J. F., Charlotte, N. C. Circular saw mill	274,129	Mar. 20	1141	314	23	1044
Liddell, Walter J. F., Charlotte, N. C. Shaft-hanger	274,794	Mar. 27	1990	553	23	1201
Liddell, Walter J. F., Charlotte, N. C. Shaft-coupling	274,795	Mar. 27	1991	553	23	1201
Liddell, Walter J. F., Charlotte, N. C. Saw-mill dog	285,824	Oct. 2	50	16	25	11
Liddell, Walter J. F. and W. S., Charlotte, N. C. Hay and cotton press	286,619	Oct. 16	1057	284, 285	25	208
Liddell, Walter S. (See Liddell, Walter J. F. and W. S.)						
Liddle, Samuel, Hamilton, Nev. Fire-proof structure	273,556	Mar. 6	406	109	23	903
Liddle, William E., Salem, N. Y. Ear-ring wire	281,088	July 10	920	257	24	170
Lidren, Christopher, assignor to himself and R. Jackson, Lafayette, Ind. Harvester-rake	278,979	June 5	443	120, 121, 122	23	2199
Lidren, Christopher, assignor to himself and R. Jackson, Lafayette, Ind. Grain-binder	287,694	Oct. 30	2440	656, 657	25	474
Lidren, Christopher, assignor to himself and R. Jackson, Lafayette, Ind. Grain-binding apparatus	287,695	Oct. 30	2442	657, 658	25	474
Lidy, George F., Waynesborough, Pa. Saw-mill feed mechanism	290,078	Dec. 11	875	249	25	1048
Lieb, Charles A., New York, N. Y. Tool-post for lathes	272,277	Feb. 13	861	240	23	602
Lieb, Charles A., New York, N. Y. Ink-fountain	277,582	May 15	1322	355	23	1864
Lieb, John W., Newark, N. J. Traveling-bag	284,446	Sept. 4	348	96	24	962
Liebenfeld, Louis, *et al.* (See Shields, Francis M., assignor.)						
Lieberman, Albert, and W. Robb, Philadelphia, Pa. Electrical heating apparatus	276,840	May 1	394	104	23	1695
Liebeskind, Rudolph, Chemnitz, Saxony, Germany. Knitting gloves	286,452	Oct. 9	843	228	25	164
Liebmann, Herman F. W., assignor of one-half to H. K. Meyer, Chicago, Ill. Machine for cutting files	271,483	Jan. 30	2067	595	23	413
Liebreich, Oscar. (See Braun and Liebreich.)						
Liebreich, Oscar, Berlin, Germany. Manufacture of soap	281,089	July 10	921	.....	24	170
Liebreich, Oscar, and H. Michaelis, assignors to F. C. Glaser, Berlin, Germany. Preparing extracts of tobacco	283,622	Aug. 21	1385	.....	24	763
Lieckfeld, Georg. (See Körting and Lieckfeld.)						
Liedke, Edward L., assignor of one-half to F. L. Felch, Sandusky, Ohio. Belt-joint	277,909	May 22	1705	465	23	1939
Liemke, Herman H., St. Louis, Mo. Faucet	270,819	Jan. 16	1229	355	23	255
Liemke, Herman H., St. Louis, Mo. Signal and alarm for railway-crossings	271,876	Feb. 6	350	97	23	502
Liesenhoff, Franz, *et al.* (See Schmidt, Christian, assignor.)						
Liess, Wilhelm, Buffalo, N. Y. Apparatus for settling and molding starch	275,394	Apr. 10	700	187	23	1354
Liess, Wilhelm, and M. Maher, assignors of one-fourth to J. S. Holmes, Buffalo, N. Y. Process of and apparatus for molding starch into blocks	284,447	Sept. 4	350	97	24	663
Light, Fred, Jr. (See Kriebel, Hosea K., assignor.)						
Lightford, James G., and J. H. Fenton, Chicago, Ill., assignors to said Fenton. Quarter-boot for horses	286,319	Oct. 9	690	184	25	135
Lighthall, Almerin H., San Francisco, Cal. Underground cable-way	274,505	Mar. 27	1647	458	23	1140
Lighthall, Almerin H., San Francisco, Cal. Gripper for traction-cables	274,506	Mar. 27	1649	458	23	1140
Lighthall, Almerin H., San Francisco, Cal. Grip for cable-railways	288,180	Nov. 6	479	132, 133	25	591
Lighthall, Almerin H., San Francisco, Cal. Cable switch or shifter for underground endless-cable railways	288,947	Nov. 20	1448	399	25	776
Lighthall, Almerin H., San Francisco, Cal. Take-up mechanism for endless-cable railways	288,948	Nov. 20	1449	399, 400	25	776
Lighthiser, George, Napoleon, Ohio. Car-coupling	284,644	Sept. 11	591	167	24	1010
Lighty, Henry, Rossville, Ind. Washing-machine	278,247	May 22	2124	585	23	2011
Likes, Elbridge T., Winterset, H. B. Hedge, and G. C. Baker, Des Moines, Iowa. Fence-post	277,493	May 15	1215	326	23	1848
Lilienfeld, David. (See Fletter, Henry, assignor.)						
Liljencrantz, Gustave A. M., Chicago, Ill. Fruit-jar opener	285,048	Sept. 18	1102	307	24	1107
Liljencrantz, Gustave A. M., Chicago, Ill. Fruit-jar opener	286,836	Oct. 16	1311	363	25	256
Lillard, La Fayette, Dixon, Cal. Traction-engine	278,154	May 22	2002	551	23	1990
Lillard, La Fayette, Dixon, Cal. Steam boiler for traction-engines	284,134	Aug. 28	2040	567	24	891
Lilley, Henry, and J. T. Hillsley, Philadelphia, Pa. Split pulley	277,910	May 22	1706	466	23	1939
Lilley, John W., *et al.* (See Collins, M. Grier, assignor.)						
Lillibridge, Freeman. (See Logan, Daniel H., assignor.)						
Lillibridge, George, Jamestown, N. Y. Caddy or canister	279,261	June 12	806	223	23	2271
Lillie, Robert B., Hanover, N. H. Soil-pulverizer	278,803	June 5	170	50	23	2151
Lilly, Charles. (See Wheat, John J., assignor.)						
Lily, George W., and J. E. Norman, Centre, Mo. Cultivator	290,440	Dec. 18	1343	372	25	1139
Lima Iron Fence Company. (See Devoe, Benjamin G., assignor.)						
Lima Paper Mill. (See Parmenter, Orville L., assignor.)						
Limbert, Ludwig. (See Salm, Maximilian J., assignor.)						
Limeburner, Frank W., Belfast, Me. Cleat	271,484	Jan. 30	2069	595	23	413
Limpach, Leonhard, Hoechst-on-the-Main, Germany, assignor to Farbwerke Hoechst, vormals Meister, Lucius & Brüning. Manufacture of coloring-matters	280,317	June 26	2094	.....	23	2505
Limpus, Sherman E., Olathe, Kans. Windmill	271,643	Feb. 6	71	20	23	453
Lincoln, Bacon & Co. (See Ware, Cleveland H., assignor.)						
Lincoln, Francis H., Chelsea, Mass. Water-gage	278,345	May 29	2285	625	23	2047
Lincoln, Frank W., Bangor, Me. Broom-handle attachment	277,298	May 8	981	263	23	1801
Lincoln, Horatio B., *et al.* (See Stamour, John B., assignor.)						
Lincoln, Howard H. (See Brown, Alexander T., assignor.)						
Lincoln, James H., Chattanooga, Tenn. Dental-engine hand-piece	274,008	Mar. 13	980	269	23	1010
Lincoln, Myron H., Bedford, Ind. Combined seed-planter and fertilizer-distributer	277,038	May 8	663	172, 173	23	1745
Lincoln, Peries, Coldwater, Mich. Spoke-socket	282,538	Aug. 7	75	22	24	513
Lincoln, Peries, Coldwater, Mich. Axle-box	282,539	Aug. 7	76	22	24	513
Lincoln, Peries, Coldwater, Mich. Knife or tool handle	286,209	Oct. 9	525	144	25	107
Lincoln, Peries, Coldwater, Mich. Sulky-plow, seeder, and cultivator	287,034	Oct. 23	1589	437, 438	25	307
Lincoln, Thomas, assignor to Hopkins & Dickinson Manufacturing Company, Newark, N. J. Key	289,284	Nov. 27	1858	516	25	858
Lind, William H., Williamsport, Pa. Car-shifter	289,006	Nov. 27	1523	421	25	797

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Lind, Williard W. (See Lucas, Edward R., assignor.)						
Lindo, John E. (See Schwartz, Charles, assignor.)						
Lindell, Theodore, assignor of one-half to P. Swainson, Clarksville, Mo. Rock and earth boring apparatus	286,837	Oct. 16	1332	363 364	25	256
Lindemann, John G., New York, N. Y. Apparatus for stretching fabrics	280,489	July 3	193	51	24	35
Lindemuth, Harry H., Mount Joy, Pa. Steam-boiler	283,497	Aug. 21	1249	350 351	24	737
Lindenthal, Gustav, Pittsburg, Pa. Bridge	277,039	May 8	664	173	23	1746
Lindenthal, Hattie M., Sewickley, Pa. Egg-shelf	276,612	May 1	83	23	23	1642
Linder, William L., Burlington, Iowa. Device for attaching neckties	289,670	Dec. 4	368	104	25	952
Lindgren, Carl A., assignor to T. Carlsson, Eskilstuna, Sweden. Making metallic rakes	282,336	July 31	2537	695	24	462
Lindley, George, Jr., Philadelphia, Pa. Knitting-machine	277,299	May 8	982	264	23	1801
Lindley, Isaac C. (See Anderson, William H., assignor.)						
Lindley, Isaac C., Elizabethtown, Ind. Straw-stacker	274,205	Mar. 20	1228	338	23	1061
Lindley, J. F., Jr. (See Stephens, James, assignor.)						
Lindley, William F., *et al.* (See New, Albert L., assignor.)						
Lindner, Ferdinand, assignor to himself, E. Melchior, J. Clemens, and C. Finkensieper, Chicago, Ill. Meat-cutting machine	270,319	Jan. 9	580	170 171	23	123
Lindop, Charlotte F. (See Lindop, William E., assignor.)						
Lindop, William E., assignor to C. F. Lindop, St. Thomas, Ontario, Canada. Apparatus for changing and storing photographers' backgrounds, &c	281,532	July 17	1491	409 410	24	275
Lindsay, James, New York, N. Y. Carpet-stretcher	289,007	Nov. 27	1523	421	25	797
Lindsay, James H., trustee. (See Browning, Clinton, assignor.)						
Lindsay, John P. (See Minor, Lyman D., assignor.)						
Lindsay, Joseph H., Freeland, Pa. Combined heater and oven	278,567	May 29	2550	695 696	23	2094
Lindsay, Melville, East Orange, N. J. Parcel-carrier	272,067	Feb. 13	601	163	23	556
Lindsay, Melville, East Orange, N. J. Parcel-carrier	277,494	May 15	1216	326 327	23	1848
Lindsay, William, *et al.* (See Darling, James D., assignor.)						
Lindsay, William I., Cleveland, Ohio. Car-wheel	284,448	Sept. 4	351	97	24	963
Lindsey, Frank. (See Ward and Lindsey.)						
Lindsey, George W., and H. W. Raleigh, assignors of one-third to A. J. Pritchard, Baltimore, Md. Fire-escape	276,610	May 1	82	22	23	1642
Lindsey, John M., Crystal Springs, Ga. Transplanting implement	275,505	Apr. 10	838	227	23	1377
Lindsey, John M., Crystal Springs, Ga. Seeding-machine	287,035	Oct. 23	1591	438	25	307
Lindsey, Stephen G., Salt Lake City, Utah Ter. Amalgamator	272,564	Feb. 20	1244	346	23	672
Lindsey, William M., Antrim, Ohio. Animal-shears	284,968	Sept. 11	989	278	24	1081
Lindsey, William M., assignor to himself and B. B. Kimball, Oakwood, Tex. Cotton-planter	288,077	Nov. 6	356	99	25	568
Lindsley, Augustus N., assignor of one-half to H. Pike, New York, N. Y. Glass globe and shade for gas-fixtures	273,371	Mar. 6	175	48	23	864
Lindsly, Robert W. (See Betts, J. Hecker, assignor.)						
Linehan, Daniel J. (See Lyons and Linehan.)						
Lines, John. (See Crane and Lines.)						
Lines, Thomas D., Syracuse, N. Y. Coupling for vehicle-springs	277,583	May 15	1323	355	23	1864
Lines, Thomas D., Syracuse, N. Y. Coupling for vehicle-springs	277,584	May 15	1324	355	23	1865
Lines, Thomas D., Syracuse, N. Y. Coupling for vehicle-springs	277,585	May 15	1324	356	23	1865
Lines, Thomas D., Syracuse, N. Y. Carriage-spring	287,303	Oct. 23	1932	528	25	369
Lingley, John H., assignor of one-half to C. Amidon, Worcester, Mass. Curtain-hanger	282,912	Aug. 7	519	145	24	592
Link-Belt Machinery Company. (See Bachmann, Johann, assignor.)						
Link-Belt Machinery Company. (See Ewart, William D., assignor.)						
Link-Belt Machinery Company. (See Pearce, Frank I., assignor.)						
Link, Frederic W., Mount Pleasant, Ohio, assignor of one-half to N. Holloway, Chicago, Ill. Engine for converting motion	273,557	Mar. 6	407	109 110	23	904
Linn, Samuel H., St. Petersburg, Russia, assignor of one-half to R. G. Rolston, New York, N. Y. Method of and apparatus for preserving and transporting food	270,549	Jan. 9	888	257	23	183
Linnrott, Joseph, Galesburg, Ill. Corn-planter	277,495	May 15	1217	327	23	1848
Linquist, Maurice F., New Haven, Conn. Corset	280,638	July 3	361	100	24	63
Linquist, Maurice F., New Haven, Conn. Corset-spring	286,452	Oct. 9	843	228	25	164
Lins, Julius L. (See Macher and Lins.)						
Linscott, John F., Grand Rapids, Mich. Ventilator for cooking-stoves	272,720	Feb. 20	1431	401	23	705
Linscott, John M., assignor to himself and L. C. Peck, Lewiston, Me. Weft stop-motion for looms	278,804	June 5	171	50	23	2152
Linsley, Edward B., assignor to Sheffield Velocipede Car Company, Three Rivers, Mich. Hand-car	270,320	Jan. 9	585	172	23	124
Linsley, Edward B., assignor to Sheffield Velocipede Car Company, Three Rivers, Mich. Hand-car	271,720	Feb. 6	158	44	23	468
Linton, Charles B., Reading, assignor to himself and Hyde & Co., Boston, Mass. Apparatus for displaying articles in the air	286,718	Oct. 16	1184	319	25	230
Linton, William F., *et al.* (See Lattimer, Francis, assignor.)						
Linz, Michel, New York, N. Y. Window-cornice	289,544	Dec. 4	214	60	25	924
Lipe, John, Sharon, N. Y. Hook for hop-vines	280,639	July 3	362	100	24	64
Lipe, Walter. (See Ludlow, Charles A., assignor.)						
Lippert, Ernst T., Shaler, Pa. Insertible saw-tooth	283,023	Aug. 21	1386	367	24	763
Lippincott, Ebenezer W., Grafton, W. Va. Car-brake	280,640	July 3	363	101	24	64
Lippincott, Jesse H. (See Schulze-Berge, Hermann, assignor.)						
Lipps, Johan P., Dresden, Saxony, Germany. Adjustable sieve	272,278	Feb. 13	861	241	23	602
Lippy, David, assignor of two-thirds to T. and W. Huber, Mansfield, Ohio. Railway-crossing	273,112	Feb. 27	1937	543	23	800
Lippy, David, and J. Hughes, Mansfield, Ohio. Traction-engine	272,447	Feb. 20	1063	305 306	23	644
Lippy, David, Richland County, and Z. S. Stocking, Cleveland, Ohio; said Lippy assignor to said Stocking. Clover and grain thrashing machine	287,304	Oct. 23	1932	528	25	369
Lipsey, Andrew B., Hoboken, N. J. Nut-lock	278,248	May 22	2125	585	23	2011
Lipsey, Andrew B., West Hoboken, N. J., assignor to W. Bell, New York, N. Y. Gas-burner	278,568	May 29	2551	696	23	2094
Lipsey, Andrew B., West Hoboken, N. J., assignor to W. Bell, New York, N. Y. Rotary engine	280,194	June 26	1932	543 544	23	2477
Lipsey, Andrew B., West Hoboken, N. J., assignor to W. Bell, New York, N. Y. Apparatus for manufacturing gas	282,204	July 31	2372	653	24	433
Lipsey, Andrew B., West Hoboken, N. J., assignor to W. Bell, New York, N. Y. Gas-burner	282,337	July 31	2538	695	24	462
Lipsey, Andrew B., West Hoboken, N. J., assignor to W. Bell, New York, N. Y. Process of and apparatus for making gas	286,454	Oct. 9	844	229	25	164

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lischy, Edward, New Orleans, La. Rice-huller	279,404	June 12	1004	278	23	2302
Liscomb, William S., Providence, R. I. Tea-kettle	278,569	May 29	2552	696	23	2094
Liscomb, William S., Providence, R. I. Photographer's chair	282,737	Aug. 7	321	92	24	556
Lisle, Jacob B. (See Irwin, William J., assignor.)						
Lissenden, George, Stockton, Cal. Gang-plow	273,292	Mar. 6	61	18, 19	23	845
Lissner, Adolph, New York, N. Y. Fur-cutting guide	269,867	Jan. 2	54	17	23	13
Lissner, Adolph, New York, N. Y. Guide for cutting fur	284,866	Sept. 11	868	243	24	1058
List, Adolph, and O. Kunath, Cape Girardeau, Mo. Carpet-beater	273,293	Mar. 6	64	19	23	845
Lister, John T., Cleveland, Ohio. Armature for dynamo-electric machines	283,624	Aug. 21	1387	387, 388	24	763
Lister, Samuel C., and J. Reixach, Manningham, near Bradford, county of York, England. Weaving double-pile fabrics and loom for weaving the same	270,321	Jan. 9	587	172, 173	23	124
Lister, Samuel C., and J. Reixach, Manningham, county of York, England. Loom for weaving double-pile fabrics	282,652	Aug. 7	212	62	24	536
Lister, Samuel C., and J. Reixach, Manningham, county of York, England. Power-loom for weaving figured double-pile fabrics	289,671	Dec. 4	368	104, 105, 106	25	952
Littell, Hardin H. (See Harrison, William H., assignor.)						
Litterer, Fred. (See McKinniss and Litterer.)						
Litterer, Fred, and L. McKinniss, Decatur, Ill. Check-rower for corn-planters	278,441	May 29	2402	655	23	2068
Little, C. H., *et al.* (See Held, August S., assignor.)						
Little, Calvin W. (See Bush, Arthur W., assignor.)						
Little, David M., Boston, Mass. Shutter for photographic cameras	284,645	Sept. 11	592	167	24	1010
Little, Emanuel, Zanesfield, Ohio. Automatic gate	276,434	Apr. 24	2009	557	23	1594
Little, George H., Peabody, Mass. Combined injector and ejector	272,448	Feb. 20	1085	306, 307	23	645
Little, Henry H., Chambersburg, Pa. Fire-escape	278,249	May 22	2125	585, 586	23	2011
Little, Horace C. (See Libby, Horace, assignor.)						
Little, James R., assignor of three-fourths to C. Smith, T. Hill, and P. B. Williams, Quincy, Ill. Wheel	273,746	Mar. 13	652	173, 174	23	954
Little, John. (See King and Little.)						
Little, John. (See Smith, John, assignor.)						
Little, John W., Muncie, Ind. Feather duster	271,877	Feb. 6	350	97	23	502
Little, Robert B., Providence, R. I. Elevator-bucket	287,139	Oct. 23	1717	470	25	332
Little, Robert B., Providence, R. I. Coal elevator and conveyer	287,140	Oct. 23	1718	470, 471	25	332
Little, William H., Plattsburg, N. Y. Potato and seed planter	289,672	Dec. 4	371	106, 107	25	952
Littlefield, Charles, Vinalhaven, Me. Rope-clamp	278,155	May 22	2003	551	23	1990
Littlefield, Frederic, Gardiner, Me. Whiffletree	273,372	Mar. 6	177	48	23	864
Littlefield, Henry W., Philadelphia, Pa. Fire-escape	288,078	Nov. 6	357	99	25	568
Littlejohn, George F., Warrenton, N. C. Fruit-jar	285,280	Sept. 18	1373	387	24	1156
Littlepage, Hardin B., King William Court-House, Va. Projectile	275,674	Apr. 10	1054	286	23	1414
Lits, Henry, Baltimore, Md. Tonic bitters	289,673	Dec. 4	373	.....	25	952
Litzelmann, Victor. (See Ams and Litzelmann.)						
Livermore, Charles F. (See Bartlett and Waite, assignors.)						
Livermore, Edward, assignor to H. Galpen, New York, N. Y. Furnace for consuming smoke and heating water	274,450	Mar. 20	1557	427	23	1118
Livermore, Edward, assignor to H. Galpen, New York, N. Y. Smoke-consumer and auxiliary generator for locomotives	274,451	Mar. 20	1560	427	23	1118
Livermore, Joseph P., Boston, Mass. Railway signal apparatus	273,558	Mar. 6	409	110	23	904
Livermore, William R., and A. H. Russell, U. S. Army. Cartridge-packing case	278,960	June 5	445	122	23	2199
Livet, Fountain, London, England. Steam-boiler furnace	288,079	Nov. 6	359	99, 100	25	569
Livingood, Katherine A., Womelsdorf, Pa. Egg-beater	282,738	Aug. 7	324	92	24	556
Livingston, Alexander W., Des Moines, Iowa. Cultivator	282,540	Aug. 7	77	22	24	513
Livingston, John, assignor to Stout, Mills & Temple, Dayton, Ohio. Roller-mill	275,675	Apr. 10	1056	286	23	1414
Livingston, John, assignor to Stout, Mills & Temple, Dayton, Ohio. Roller-mill	280,195	June 26	1936	544	23	2478
Livingston, John, assignor to Stout, Mills & Temple, Dayton, Ohio. Roller-mill	284,135	Aug. 28	2041	567, 568	24	891
Llewellin, William M., Glasgow, county of Lanark, Scotland. Apparatus for checking the arrival of employés	275,229	Apr. 3	445	124	23	1302
Lloyd, Charles D., Framingham, Mass. Printing-press	285,421	Sept. 25	1551	437	24	1192
Lloyd, Edwin L., assignor of one-half to C. C. Joly, Philadelphia, Pa. Bottle-filling machine	279,776	June 19	1434	401	23	2383
Lloyd, Edwin L., assignor of one-half to C. C. Joly, Philadelphia, Pa. Bottle-stopper	279,777	June 19	1435	402	23	2383
Lloyd, Edwin L., assignor of one-half to C. C. Joly, Philadelphia, Pa. Bottle-stopper	280,196	June 26	1937	544	23	2478
Lloyd, John D., Boston, Mass. Steam-pressure-gage trap	281,533	July 17	1492	410	24	275
Lloyd, John T. (See Elliott and Lloyd.)						
Lloyd, Nathan, Sr., Manmee, Ind. Bee-hive	284,312	Sept. 4	190	54	24	937
Lloyd, Seth, and D. E. Pierce, Bethlehem, Pa. Valve	275,395	Apr. 10	701	187	23	1354
Lloyd, Seth, and D. E. Pierce, Bethlehem, Pa. Valve	275,396	Apr. 10	702	187	23	1355
Loback, Eugene B. (See Wilson and Loback.)						
Lobb, Thomas D., Moorefield, W. Va. Car-coupling	285,634	Sept. 25	1801	513	24	1239
Lobdell, Alonzo, Racine, Wis. Harness thill-strap	274,206	Mar. 20	1229	338	23	1061
Lobdell, Alonzo, Racine, Wis. Feed for sewing-machines	276,253	Apr. 24	1771	493	23	1554
Lobdell, Augustus C., Chicago, Ill. Lightning-rod	278,028	May 22	1851	506	23	1964
Lobdell, Henry, Troy, N. Y. Wall-paper	282,541	Aug. 7	78	.....	24	513
Lobdell, Henry, Troy, N. Y. Wall-paper. (Reissue)	10,430	Dec. 25	2104	.....	25	1276
Lobdell, Henry, Troy, N. Y. Curtain-roller attachment	286,026	Oct. 2	302	84	25	57
Lobdell, Henry, Troy, N. Y. Curtain-roller	286,027	Oct. 2	303	85	25	57
Lochman, Julius, New York, N. Y. Shirt-bosom	280,836	July 10	621	174	24	116
Locke, Charles S., Joliet, Ill. Check-rower for corn-planters	280,641	July 3	365	101	24	64
Locke, Charles S., assignor of one-half to G. Whittier, Joliet, Ill. Barbed wire	277,423	May 8	1123	302	23	1825
Locke, Edwin R., Keene, assignor, by mesne assignments, to himself and A. W. Stevens, East Sullivan, N. H. Apparatus for tanning hides	278,981	June 5	446	122	23	2199
Locke, Joseph, Somerville, assignor to W. L. Libbey, Newton, and E. D. Libbey, Boston, Mass. Glassware	282,002	July 24	2092	573	24	383
Locke, Joseph, Somerville, assignor to W. L. Libbey, Newton, and E. D. Libbey, Boston, Mass. Indenting convex or spherical surfaces of glass and machine for producing the same	283,625	Aug. 21	1388	388	24	764
Locke, Joseph, Somerville, assignor to W. L. Libbey, Newton, and E. D. Libbey, Boston, Mass. Glass globe	288,582	Nov. 13	997	275	25	490

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Locke, Joseph R., Amesbury, Mass. Two-wheeled vehicle	290,248	Dec. 18	1063	303	25	1094
Locke, Milo W. (See Rittenhouse and Locke.)						
Locke, Peter A., Silver Cliff, Colo. Railway-rail and rail-joint	282,739	Aug. 7	324	92	24	556
Locke, Richard B., assignor of one-fourth to C. W. Held, Brooklyn, N. Y. Life-guard and track-clearer	287,036	Oct. 23	1592	438	25	307
Locke, Stephen F., assignor of one-half to A. King and J. Smith, Titusville, Pa. Steam-actuated valve	288,460	Nov. 13	853	231	25	664
Lockerman, William H. (See Dunnet, Edward L., assignor.)						
Lockhart, Alexander W., Sacramento, Cal. Thrashing and clover-hulling machine	285,422	Sept. 25	1552	437	24	1192
Lockhart, George, Tarrytown, N. Y. Swinging bracket for shade-rollers	272,449	Feb. 20	1088	307	23	645
Locklin, Samuel B. (See Thompson, Josiah W., assignor.)						
Lockman, William E., St. Louis, Mo. Steam trunk-lid press	284,215	Sept. 4	76	22	24	918
Lockwood, Charles S. (See Hyatt and Lockwood.)						
Lockwood, Charles S., assignor to Bonsilate Company, (limited,) Albany, N. Y. Domino	273,559	Mar. 6	414	110	23	905
Lockwood, Charles S., assignor to Bonsilate Company, (limited,) Albany, N. Y. Plastic material	283,793	Aug. 28	1608	.....	24	816
Lockwood, Charles S., assignor to Bonsilate Company, (limited,) Albany, N. Y. Plastic material	283,794	Aug. 28	1609	.....	24	817
Lockwood, Charles S., assignor to Bonsilate Company, (limited,) Albany, N. Y. Ornamenting or applying designs to articles made of plastic material	283,795	Aug. 28	1610	.....	24	817
Lockwood, Charles S., assignor to Bonsilate Company, (limited) Albany, N. Y. Zincated bone	283,796	Aug. 28	1611	.....	24	817
Lockwood, Charles S., assignor to Bonsilate Company, (limited,) Albany, N. Y. Plastic material	283,797	Aug. 28	1611	.....	24	817
Lockwood, David C., assignor to Rubber and Celluloid Harness Trimming Company, Newark, N. J. Martingale-ring of celluloid or other plastic material	276,435	Apr. 24	2010	557	23	1595
Lockwood, David D., Bridgeport, Conn. Lamp	275,230	Apr. 3	448	124	23	1303
Lockwood, Davis L., Everett, Pa. Automatic fly-brush	284,867	Sept. 11	869	243	24	1056
Lockwood, George A., and D. Orrill, Chariton, Iowa. Treadle	279,577	June 19	1210	334	23	2343
Lockwood, George E., *et al.* (See Lockwood, James F., assignor.)						
Lockwood, George R., St. Louis, Mo. Combined letter sheet and envelope	279,405	June 12	1005	278	23	2302
Lockwood, Henry S., assignor to Lockwood Manufacturing Company, South Norwalk, Conn. Toy velocipede	281,894	July 24	1969	538 539	24	362
Lockwood, Henry S., assignor to Lockwood Manufacturing Company, South Norwalk, Conn. Toy pistol	286,455	Oct. 9	845	229	25	164
Lockwood, James F., Philadelphia, Pa. Flue stop	279,874	June 19	1554	434	23	2403
Lockwood, James F., Philadelphia, Pa., assignor to T. H. Parks and G. E. Lockwood. Oil-can	277,040	May 8	665	173	23	1746
Lockwood, Jared. (See Keys and Lockwood.)						
Lockwood, Jared, and W. A. Keys, New York, N. Y. Holder for scarfs, &c	285,281	Sept. 18	1374	388	24	1156
Lockwood, Jeremiah, and J. Kivett, Sullivan, Ind. Fire-escape	285,282	Sept. 18	1375	388	24	1156
Lockwood, Jeremiah, and C. McIntire, Sullivan, Ind. Money-changing cabinet	288,714	Nov. 20	1165	320	25	724
Lockwood, John W. (See Smith and Lockwood.)						
Lockwood Manufacturing Company. (See Lockwood, Henry S., assignor.)						
Lockwood, Morris C., Vineland, N. J. Cooking-utensil	282,542	Aug. 7	79	23	24	513
Lockwood, Philo J., Auburn, Ind. Door brace or stay	275,832	Apr. 17	1264	347	23	1457
Lockwood, Rhodes, Boston, Mass. Pencil	270,959	Jan. 23	1408	405	23	291
Lockwood, Rhodes, Boston, Mass. Syringe	273,373	Mar. 6	178	48	23	864
Lockwood, Thomas D., Malden, Mass. Fire and district telegraph	273,374	Mar. 6	179	49	23	864
Lockwood, Thomas D., Malden, Mass. Transmitting apparatus for telephone-lines	281,895	July 24	1970	539	24	362
Lockwood, Thomas D., Malden, Mass. Signaling apparatus for telephone-exchanges	283,626	Aug. 21	1389	389	24	764
Lockwood, Thomas D., Malden, Mass. Telephonic repeating-circuit	290,898	Dec. 25	1942	535 536	25	1250
Lockwood, William C., Brooklyn, assignor to C. J. Dorrance, New York, N. Y. Telephone-transmitter	283,123	Aug. 14	775	218	24	645
Loe, David S., Poorman, Ohio. Fire-place	282,740	Aug. 7	325	93	24	557
Loeb, Adolf, assignor to himself and S. Nathan, New York, N. Y. Sheet-metal fabric	271,086	Jan. 23	1560	449	23	316
Loeb, Jacob, *et al.* (See Wurth, Charles N., assignor.)						
Loeb, Joseph, Philadelphia, Pa. Chenille fringe	281,534	July 17	1492	410	24	255
Loehner, August, assignor to Loehner & Wolff, St. Louis, Mo. Shaft-coupling	274,796	Mar. 27	1992	554	23	1201
Loehner & Wolff. (See Loehner, August, assignor.)						
Loeper, Jacob W. (See Kitz, Ernest, assignor.)						
Loeper, Jacob W., Indianapolis, Ind. Broom-support	288,181	Nov. 6	481	133	25	591
Loeser, Henriette. (See Loeser, Lazarus, assignor.)						
Loeser, Lazarus, assignor to H. Loeser, New York, N. Y. Shoe-tip	271,342	Jan. 30	1873	543	23	377
Loew, Jacques, assignor to H. Levy & Son, New York, N. Y. Box-fastener	288,351	Nov. 13	705	193	25	638
Loewenbach, Bernhard, Milwaukee, Wis. Combined letter-sheet and envelope	287,555	Oct. 30	2244	609	25	437
Loewenthal, Moses, assignor of one-half to L. Dannhauser, New York, N. Y. Under-garment	278,805	June 5	173	51	23	2152
Loewns, Leopold, *et al.* (See Ganss, Henry, assignor.)						
Lofink, Frank. (See Bertsche and Lofink.)						
Loftus, John, Albany, assignor of one-half to T. Holland, Troy, N. Y. Injector	290,693	Dec. 25	1678	402	25	1202
Logan, Hugh, San Francisco, Cal. Refrigerating and ice machine	281,090	July 10	922	257	24	170
Logan, James, Waterloo, N. Y. Grave receptacle or vault	275,833	Apr. 17	1265	348	23	1457
Logan, James, assignor to himself and A. C. Mayo, Rochester, N. Y. Carriage-curtain fastening	280,323	July 3	54	14	24	12
Logan, John, Waltham, Mass. Gage	283,627	Aug. 21	1391	389	24	764
Logan, John, Waltham, Mass. Manufacture of hair-springs	287,448	Oct. 30	2109	574	25	409
Logan, John A., *et al.* (See Hayden, Henry F., assignor.)						
Logan, Thomas, Newark, N. J. Motor for cradles	277,753	May 15	1518	412	23	1899
Logan, Thomas H., Lowell, Mass. Cartridge-reloading tool	281,636	July 17	1620	443	24	295
Logan, Thomas H., Lowell, Mass. Device for connecting picking-straps to the picking-sticks of looms	290,899	Dec. 25	1943	536	25	1250
Logue, Edward, M. T. Jones, and C. E. Morrill, Deering, Me., assignors to said Morrill. Composition for tanning	283,798	Aug. 28	1612	.....	24	817
Lohges, John, Algiers, La. Implement for expanding and cutting boiler-tubes	270,446	Jan. 9	753	221	23	156
Lomas, John R., assignor of one-half to B. Shoninger, New Haven, Conn. Organ-case	280,197	June 26	1938	545	23	2478
Lomas, Thomas, New Haven, Conn. Machine for fitting billiard-cue tips	282,741	Aug. 7	326	93	24	557
Lomax, George H., Somerville, Mass. Manufacture of glass lamps	288,715	Nov. 20	1166	320	25	724
Lombard, John. (See Palmer, George E., assignor.)						
Lommer, Francis X. (See Van Tassel, George W., assignor.)						
Lonergan, James E., and H. K. Farrell, Worcester, Mass. Combined salt and pepper caster	275,231	Apr. 3	449	124	23	1303
Lonergan, John F., St. Louis, Mo. Cooper's bevel	270,086	Jan. 2	300	89	23	61

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Long, Alferd C., Flora Dale, Pa. Car-coupling	281,535	July 17	1493	410	24	275
Long, Archibald M. (See Case, Pattee, and Long.)						
Long, Charles R., Louisville, Ky. Chair-seating needle	278,982	June 5	447	122 123	23	2199
Long, George A., Northfield, Mass. Steam road-vehicle	281,091	July 10	923	258	24	170
Long, George S., Hartford, Conn. Pulley	274,349	Mar. 20	1422	390	23	1095
Long, George S., Hartford, Conn. Pulley	285,635	Sept. 25	1802	513	24	1239
Long, Harry E., London, Ontario, Canada. Electrical connector	278,346	May 29	2286	625	23	2048
Long, Henry L., Keithsburg, Ill. Check-row planter	270,232	Jan. 9	488	142 143	23	104
Long, John H., Walkerton, Ontario, Canada. Device for retarding the descent of falling bodies	285,283	Sept. 18	1376	388	24	1156
Long, John J. (See Darling and Long.)						
Long, Malcolm W., Hyde Park, Mass. Automatic circuit-breaker for railway-signals	289,008	Nov. 27	1524	421	25	797
Long, Nathan H., Muncie, Ind. Combined truck and bench	279,778	June 19	1436	402	23	2383
Long, Nathan H., Muncie, Ind. Clothes-rack	288,645	Nov. 20	1078	296	25	710
Long, Oliver, assignor of one-half to A. M. Brown, Brooklyn, N. Y. Insole	283,407	Aug. 21	1135	321	24	717
Long, Peter, and W. S. Turney, Greensburg, Pa. Railway-signal	276,254	Apr. 24	1772	493 494	23	1554
Long, William A., Steubenville, Ohio. Machine for making suppositories	286,719	Oct. 16	1185	319 320	25	230
Long, William R., Stellapolis, Iowa. Wagon-brake	287,037	Oct. 23	1593	438	25	307
Longcor, Leonard S. (See Dawson, Simpson, and Longcor.)						
Longcor, Leonard S., Belvidere, Ill. Bridle-bit	279,171	June 12	707	192	23	2254
Longley, Charles H. (See Bray, John, assignor.)						
Longmore, James, Liverpool, county of Lancaster, England. Utilizing cotton-seed-oil residue, &c	284,313	Sept. 4	191	.....	24	937
Longmore, James, Liverpool, county of Lancaster, England. Manufacture of soap and extractive matter from cotton-seed oil, &c	290,079	Dec. 11	876	.....	25	1048
Longmore, Lewis F., Lowell, Mass. Drill guide and rest	284,449	Sept. 4	352	97	24	963
Longsdorf, David E., Mechanicsburg, Pa. Machine for cutting green corn from the cob	276,054	Apr. 17	1525	420	23	1503
Longstreet, Aaron, Chicago, Ill. Passenger-car	275,397	Apr. 10	703	188	23	1355
Longstreet, Christopher S., New York, N. Y. Actuating mechanism and safety-brake for elevators	272,965	Feb. 27	1755	490	23	768
Longstreth, Edward, *et al.* (See Wilder and Parry, assignors.)						
Lonsbery, Richard W. (See Stewart, Edward, assignor.)						
Lonsdale, William, Grand Crossing, Ill. Rotary shuttle for sewing-machines	273,747	Mar. 13	653	174	23	954
Look, John C., Yuba City, Cal. Car-coupling	272,386	Feb. 13	1004	281	23	625
Look, John C., Yuba City, Cal. Car-coupling	277,300	May 8	983	264	23	1801
Look, John C., Olathe, Kans. Breast-strap fender	287,696	Oct. 30	2447	659	25	475
Look, Obed, Bridgeport, Conn. Vehicle-wheel	281,279	July 17	1172	324	24	220
Loomis, Burdett, Hartford, Conn. Manufacture of bricks, &c	280,837	July 10	622	175	24	116
Loomis, Burdett, Hartford, Conn. Device for burning gaseous fuel in kilns	280,838	July 10	624	175	24	116
Loomis, Carrie J., Joliet, Ill. Shoe	290,249	Dec. 18	1083	303	25	1094
Loomis, Francis D., and J. B. Dupont, Framingham, Mass. Insect-destroyer	276,613	May 1	84	23	23	1642
Loomis, George P., Albany, N. Y. Nut-lock	281,196	July 10	1063	293	24	195
Loomis, Horace S., Auburn, N. Y. Dumping-wagon	288,823	Nov. 20	1301	356	25	749
Loomis, Jason B. (See Cooper, John W., assignor.)						
Loomis, John, Jeffersonville, Ind. Solution for seasoning and preserving wood	273,861	Mar. 13	810	219	23	981
Loomis, Leverett W., Carrollton, Ill. Erasable register	287,837	Nov. 6	57	17	25	517
Looney, George W., Sr., Rushville, Ind. Fire-escape	280,937	July 10	748	208	24	137
Lopes, Antonio, Brooklyn, N. Y. Banjo	280,839	July 10	626	176	24	116
Lord, Andrew H., Chicago, assignor of one-half to C. A. Hitchcock, Austin, Ill. Metallic tile for floors, &c	285,636	Sept. 25	1804	514	24	1239
Lord, Drew H. (See Handy and Lord.)						
Lord, Drew H., Northfield, Minn. Mill-stuff-recovering machine	277,301	May 8	984	264	23	1802
Lord, Drew H., Northfield, Minn. Eccentric-bearing	281,197	July 10	1064	293	24	195
Lord, Henry S. (See Birkery and Lord.)						
Lord, Henry S., and R. E. Day, assignors to Hartford Sanitary Plumbing Company, Hartford, Conn. Float for water-closet valves	276,436	Apr. 24	2011	557	23	1595
Lord, Peter, assignor of two-thirds to J. B. and A. S. Vinet, Montreal, Quebec, Canada. Universal joint	276,186	Apr. 24	1691	467	23	1540
Lord, Peter, assignor of two-thirds to J. B. and A. S. Vinet, Montreal, Quebec, Canada. Press	280,840	July 10	627	176	24	117
Lorenz, Friedrich, Rendsburg, Prussia, Germany. Process of and apparatus for obtaining ammonia	277,041	May 8	666	174	23	1746
Lorenz, Wilhelm, Carlsruhe, Baden, Germany. Machine for capping cartridges	274,618	Mar. 27	1785	496 497	23	1164
Lorenz, Wilhelm, Carlsruhe, Baden, Germany. Chuck for holding rose-cutters or similar tools	283,124	Aug. 14	776	218	24	645
Lorenzen, Immanuel, assignor to Peerless Wire Mattress Company, Hartford, Conn. Device for stretching bed-bottoms	272,721	Feb. 20	1432	401	23	706
Lorey, William, Philadelphia, Pa. Angle-iron	280,841	July 10	629	177	24	117
Lorillard & Co., P. (See Harmon, Orville S., assignor.)						
Loring, Charles T., assignor to Adjustable Telephone Support Company, Boston, Mass. Telephone-support	281,381	July 17	1299	360	24	242
Loring, Charles T., assignor, by mesne assignments, to Adjustable Telephone Support Company, Boston, Mass. Telephone-switch	289,353	Nov. 27	1940	539	25	874
Loring, Charles T., and G. W. Pierce, assignors to American Bell Telephone Company, Boston, Mass. Telephone	271,878	Feb. 6	351	98	23	502
Loring, Harrison. (See McIntyre, James, assignor.)						
Lorsch, Dreyfus & Co. (See Dreyfus, Henry, assignor.)						
Loryea, Abram M., and C. H. Palmer, New York, N. Y., assignors to Star Electric Light and Power Company of the United States. Dynamo-electric machine	278,983	June 5	448	123	23	2200
Loryea, Abram M., and C. H. Palmer, New York, N. Y. Dynamo-electric machine	283,498	Aug. 21	1250	351	24	738
Losse, Henry, Pinckenville, Ill. Cylinder washing-machine	279,960	June 26	1666	468	23	2429
Lossow, Casimir, Cleveland, Ohio. Safety-brake for elevators	285,760	Sept. 25	1962	555 556	24	1266
Lotan, James. (See Lesourd and Lotan.)						
Loth, Henry, Philadelphia, Pa. Chamber-pot or commode	288,824	Nov. 20	1301	356 357	25	748
Lothrop, Charles H., Lyons, Iowa. Line-changer for telephonic and other electrical purposes	277,145	May 8	805	211	23	1770
Lothrop, Charles H., Lyons, Iowa. Combined cut-out and ground-switch for telegraph and telephone lines	284,031	Aug. 28	1912	535	24	869

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Lothrop, Chauncey M., Walpole, and H. L. Hewins, Sharon, Mass. Belt-awl	289,009	Nov. 27	1526	422	25	797
Lothrop, Henry O., Boston, Mass. Machine for shaping ferrules	290,250	Dec. 18	1064	303	25	1095
Lothrop, Henry O., Boston, Mass. Machine for making wire tubes	290,694	Dec. 25	1679	462	25	1203
Lothrop, Henry O., Boston, Mass. Machine for cutting tubes	290,695	Dec. 25	1681	463	25	1203
Lotz, Arthur, Paris, France. Paper-fastener	290,336	Dec. 18	1199	336	25	1114
Lotz, William H., *et al.* (See Hartman, George J., assignor.)						
Louch, John H., Cincinnati, Ohio. Illuminated decorative sign	281,536	July 17	1494	411	24	275
Loud, Philologus H., Williston, S. C. Traction-engine	271,343	Jan. 30	1873	543	23	377
Loud, Philologus H., assignor of one-half to Philologus H. Loud, Jr., Williston, S. C. Floating caisson	272,722	Feb. 20	1432	402	23	706
Louden, William, Fairfield, Iowa. Hay-stacker	282,003	July 24	2093	574	24	383
Louden, William, Fairfield, Iowa. Hay-carrier	290,591	Dec. 18	1542	424	25	1173
Loudenbeck, John H., Union, Ill. Grain-separator	279,491	June 12	1102	304	23	2317
Loudon, John, Big Rapids, Mich. Railway and other ticket holder and press	280,049	June 26	1779	499	23	2449
Loudon, Joseph A. (See Armstrong and Loudon.)						
Lougee, Amanda M. (See Driscoll, Lawrence J., assignor.)						
Lougee, Charles A., Hyde Park, Mass. Automatic tool-guiding device	287,838	Nov. 6	58	17	25	518
Loughead, William H., and J. B. Fleming, Xenia, Ohio. Fruit-drier	286,936	Oct. 16	1454	399	25	276
Loughrey, John. (See Robson, Robert S., assignor.)						
Loughridge, William, Baltimore, Md. Dumping-cart	270,905	Jan. 23	1334	385	23	290
Louis, Michael A. W., Washington, D. C. Calendering-machine	275,676	Apr. 10	1056	287	23	1415
Louis, Michael A. W., Washington, D. C. Ventilator	289,426	Dec. 4	65	19	25	898
Lourie, Herbert M. (See Aldrich and Lourie.)						
Lövaas, Olaus O., Moss, Norway. Striking mechanism for clocks	276,437	Apr. 24	2011	558	23	1595
Love, Aaron, Whitchurch township, county of York, Ontario, Canada. Thrashing-machine	273,113	Feb. 27	1938	543	23	800
Love, John. (See Savage and Love.) (Reissue.)						
Love, Samuel Y., Pittsburg, Pa. Sewing-machine	285,359	Sept. 18	1465	412	24	1171
Loveday, Thomas, Islip, county of Northampton, England. Horse-collar	288,248	Nov. 13	569	158	25	616
Lovell Manufacturing Company. (See Walker, Addison W., assignor.)						
Lovegrove, Thomas G. (See Hall, Henry M., assignor.)						
Lovegrove, Thomas J., Philadelphia, Pa. Arch	271,344	Jan. 30	1874	543, 544	23	378
Lovejoy, Albert J., *et al.* (See Rice, Darius C., assignor.)						
Lovejoy, Andrew W., Rochester, N. Y. Window-screen	272,068	Feb. 13	602	163	23	556
Lovejoy, Daniel, Lowell, Mass. Belt-fastener	284,868	Sept. 11	870	244	24	1058
Loveland, Lucius N., New Haven, Ind. Gate	290,646	Dec. 18	1612	443	25	1185
Loveland, Oscar, Adams, N. Y. Hay-carrier	284,869	Sept. 11	871	244	24	1058
Loveless, Charles B., Worthington, Minn. Smoking-tube	273,294	Mar. 6	65	19	23	845
Lovell, Albert A. (See Lovell, George A., assignor.)						
Lovell, George A., Orange, assignor of one-half to A. A. Lovell, Worcester, Mass. Preparing and hardening paper-board for japanning and enameling purposes	270,890	Jan. 16	1230	.....	23	255
Lovell, George A., Orange, assignor of one-half to A. A. Lovell, Worcester, Mass. Case or cabinet for sewing-machines	279,875	June 19	1554	435	23	2404
Lovell, Henry H. and H. T., Ionia, Mich. Refrigerator	288,583	Nov. 13	998	275	25	690
Lovell, Homer T. (See Lovell, Henry H. and H. T.)						
Lovett, Armstead M., Zanesville, Ohio. Seed-planter	278,156	May 22	2004	551	23	1990
Lovett, James A. B., Huntsville, Ala. Railway-crossing alarm	272,723	Feb. 20	1434	402, 403	23	706
Low, A. Augustus. (See Johnson and Low.)						
Low, Alvin H. (See Norris and Moore, assignors.)						
Low, David W., Gloucester, Mass. Life-saving apparatus for boats	280,842	July 10	630	177	24	117
Low, George H. (See Enos, John A., assignor.)						
Low, Harry N., Washington, D. C. Adjustable pivot-joint	283,907	Aug. 28	1735	490	24	837
Low, Jesse B., Pulaski, N. Y. Electric brake-setting apparatus	271,721	Feb. 6	160	44	23	468
Low, Joel B., San Francisco, Cal. Rope-railway	288,646	Nov. 20	1078	296	25	710
Low, Joel B., San Francisco, Cal., assignor of one-half to W. B. Reaney, Baltimore, Md. Railway operated by underground ropes	280,384	July 3	54	15	24	12
Low, Robert. (See Evans and Low.)						
Low, William R., San Francisco, Cal. Follower for ram-elevators	288,352	Nov. 13	706	193, 194	25	638
Lowa, Gustavus, St. Louis, Mo. Carriage-door	275,398	Apr. 10	704	188	23	1355
Lowbridge, Jabez. (See Stitt, Lowbridge, and Rosenkranz.)						
Lowcock, Arthur, Shrewsbury, Shropshire, and J. Taylor, Salford, county of Lancaster, England; said Taylor assignor to said Lowcock. Cleaner for steam-boilers	287,038	Oct. 23	1594	439	25	308
Lowder, John E., Boonsville, Tex. Seed-planter	273,748	Mar. 13	654	174	23	954
Lowe, Henry, Brooklyn, N. Y. Circle-switch for galvanic batteries	274,452	Mar. 20	1563	427	23	1119
Lowe, James, Marlborough, Mass. Buoyant propeller-ship	271,303	Jan. 23	1699	490, 491	23	338
Lowe, Oscar F., Hampton, Iowa. Equalizer for spring-carriages	278,984	June 5	450	123	23	2200
Lowe, Samuel, Denver, Col. Reversible railway-skid	277,302	May 8	985	265	23	1802
Lowe, Samuel, and J. W. Lamb, Nottingham, county of Nottingham, England. Knitting-machine	270,682	Jan. 16	1060	303, 304, 305	23	223
Lowe, Thomas, assignor of one-half to J. W. Fisher, Wild Rose, Wis. Potato-planter	273,560	Mar. 6	415	111	23	905
Lowe, William T. J., Buffalo, N. Y. Spoon-bait for fishing	276,055	Apr. 17	1527	420	23	1504
Lowell, Seth W., Fillmore, N. Y. Fruit-evaporator	284,450	Sept. 4	352	98	24	963
Lowentraut, Peter, *et al.* (See Roth, George, assignor.)						
Lowerre, Frederick H., New York, N. Y. Bottle-stopper	287,141	Oct. 23	1723	472	25	332
Lowerre, Thomas R., Mott Haven, N. Y. Letter-box	277,586	May 15	1325	356	23	1865
Lowers, David, Spring Valley, N. Y. Stone-cutter's mallet	280,050	June 26	1780	499	23	2449
Löwig, Carl, Breslau, Prussia, Germany. Manufacturing caustic alkalies	274,619	Mar. 27	1786	.....	23	1164
Lowne, Robert M., East End Finchley, county of Middlesex, England. Electric log or apparatus for ascertaining the speed of ships and the rate of currents	272,724	Feb. 20	1435	403	23	706
Lowrey, John M., Perdue Hill, Ala. Seed-planter	288,080	Nov. 6	360	100	25	569
Lowrey, Milton, Sprague, Mo. Hedge-trimming machine	272,843	Feb. 20	1603	448, 449	23	736
Lowrie, Harvey C., Denver, Colo. Automatic flush-valve	271,644	Feb. 6	72	20	23	453
Löwy, Benjamin, Berlin, Germany. Flower-pot for artificial flowers	281,706	July 24	1721	468	24	318
Lubin, David, assignor of one-half to H. Weinstock, Sacramento, Cal. Check-box	285,495	Sept. 25	1633	458	24	1207
Lubin, David, assignor of one-half to H. Weinstock, Sacramento City, Cal. Envelope	272,725	Feb. 20	1438	403	23	707
Luburg, Charles E., assignor to G. H. Jackson, Philadelphia, Pa. Reclining-chair	282,095	July 31	2216	609	24	409
Lucan, William H., Hermon, Ill. Car-coupling	279,654	June 19	1297	360	23	2359
Lucas, Charles H., assignor of one-half to W. W. Chaffin, Canton, Me. Device for fitting hair-springs to watches	278,347	May 29	2287	625	23	2048

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Lucas, Edward R., assignor of one-half to W. W. Lind, Peoria, Ill. Machine for amalgamating ores	272,726	Feb. 20	1438	403, 404	23	707
Lucas, Eliza P., Starkville, Miss. Salve	284,314	Sept. 4	193	.....	24	937
Lucas, Francis M. (See Sleeth and Lucas.)						
Lucas, Heman S., Chester, Mass. Safety device for emery-wheels	286,210	Oct. 9	526	145	25	107
Lucas, James A. (See McDonald, Gilbert, assignor.)						
Lucas, John, Hastings, Minn. Cockle-machine	274,797	Mar. 27	1993	554	23	1201
Lucas, Thomas H., Valley City, Dak. Ter. Grate	277,754	May 15	1519	412	23	1900
Lucats, Salomon, Nashville, Tenn. Grinding-mill	287,839	Nov. 6	59	18	25	518
Luce, Stephen B., Newport, R. I. Dead-eye	290,993	Dec. 25	2075	571	25	1271
Luce, Theodore, Detroit, assignor of one-half to E. B. Harrington, Port Huron, Mich. Pantaloon-stretcher	279,262	June 12	807	223	23	2271
Lucia, Joel, Little Suamico, Wis. Log-roller for saw-mills	273,561	Mar. 6	416	111	23	905
Lucia, Joel, Little Suamico, Wis. Saw-mill	284,870	Sept. 11	872	244, 245	24	1059
Luck, Edward, Stamford Street, Blackfriars, county of Surrey, England. Apparatus for the conversion of unmalted grain	278,985	June 5	450	123, 124	23	2200
Luck, Edward, Stamford Street, Blackfriars, county of Surrey, England. Apparatus for exposing liquors to the action of atmospheric air	278,986	June 5	451	124	23	2200
Luckett, Samuel B., Crawfordsville, Ind. Cloth-measuring machine	271,879	Feb. 6	352	98	23	502
Luckey, George E., assignor of one-half to W. W. Luckey and B. Cavitt, Paris, Tenn. Pea-thrasher	275,052	Apr. 3	220	60	23	1264
Luckey, Walter W., *et al.* (See Luckey, George E., assignor.)						
Luckner, Robert, Sr., New Orleans, La. Cigar-box	270,683	Jan. 16	1064	305	23	223
Lude, Stefan, Chicago, Ill. Folding bed	271,485	Jan. 30	2069	596	23	413
Lüdeke, Waldemar, Hoboken, N. J., assignor of one-half to H. Baumeister, New York, N. Y. Glove-sewing machine	275,506	Apr. 10	839	227, 228	23	1377
Lüdeke, Waldemar, Hoboken, N. J., assignor to himself and H. Baumeister, Brooklyn, N. Y. Glove and fur sewing machine	288,949	Nov. 20	1451	400	25	777
Ludington, Francis H., St. Louis, Mo. Bag-fastener	285,908	Oct. 2	165	47	25	32
Ludlam, J. S. (See Claus, Adolph, assignor.)						
Ludlow, Abraham R., Springfield, Ohio. Drill-hoe point	273,375	Mar. 6	181	49	23	865
Ludlow, Charles A., Bridgeport, Conn., assignor of one-half to W. Lipe, New York, N. Y. Lock	283,125	Aug. 14	777	218	24	645
Ludlow, Samuel W., Cincinnati, Ohio, assignor of one-fourth to J. Fitton. Vehicle-spring	290,251	Dec. 18	1085	303	25	1095
Ludlow, William E. (See Beckert and Ludlow.)						
Ludlow, William E., Sandusky, Ohio. Coal, iron-ore, and merchandise derrick	282,543	Aug. 7	80	23	24	514
Ludowici, Wilhelm, Ludwigshafen-on-the-Rhine, Germany. Roofing-tile	283,126	Aug. 14	778	219	24	645
Ludwig, Eugen, Hoboken, N. J. Polishing-paste	282,913	Aug. 7	520	.....	24	593
Ludwig, John C., and W. Wainwright, San Francisco, Cal.; said Ludwig assignor to said Wainwright. Vapor-lamp burner	290,337	Dec. 18	1199	336	25	1114
Ludwig, Matthew, Stamford, Conn. Billiard-table	280,198	June 26	1939	545	23	2478
Ludwig, Thomas I., Fremont, Ohio. Plow	282,999	Aug. 14	626	177, 178	24	618
Luehrs, Michel D., Cleveland, Ohio. Bolt-threading die	289,674	Dec. 4	373	107	25	952
Lufkin, Edward T., Cleveland, Ohio. Headed lumber-rule	272,279	Feb. 13	862	241	23	602
Lufkin, Edward T., Cleveland, Ohio. Machine for forming and dressing lumber-rules	272,892	Feb. 27	1677	469	23	755
Lufkin, John W. (See Hitchcock and Lufkin.)						
Lufkin, John W., Chelsea, Mass. Button-hole sewing-machine	277,755	May 15	1521	412, 413	23	1900
Lugenbell, Peter, assignor of one-half to J. Pool and A. Reiter, Greensburg, Ind. Two-wheeled vehicle	272,280	Feb. 13	863	241	23	602
Luger, Anton, Vienna, Austria-Hungary. Sealing device for jars, &c	280,938	July 10	750	208	24	138
Lumbert, Daniel, Centreville, Mass. Cranberry-gatherer	289,846	Dec. 11	597	166	25	998
Lumbye, Hans, and A. De Bevoise, Brooklyn, N. Y. Compound for skating-rinks, &c	277,043	May 8	668	.....	23	1746
Lumpp, Oscar, Lyons, France. Drying materials of extensive superficial area	280,490	July 3	194	51	24	35
Lundy, Richard W., New York, N. Y. Sewing-machine	276,056	Apr. 17	1528	420	23	1504
Lung, Charles J., Rochester, N. Y. Fire-escape	287,142	Oct. 23	1724	472	25	333
Lüngen, Adam, assignor of one-half to R. Edwards, New York, N. Y. Electric gas-lighting burner	290,441	Dec. 18	1344	372	25	1139
Lunkenheimer, Frederick, Cincinnati, Ohio. Device for proving globe-valves	277,756	May 15	1525	413	23	1901
Lunn, John W. (See Bolt and Lunn.)						
Lunte, Frank H. (See Aborn, Frank, assignor.)						
Luppen, Luppe, Pekin, Ill. Seed-planter	271,345	Jan. 30	1877	544	23	378
Luppen, Luppe, Pekin, Ill. Cultivator	274,798	Mar. 27	1994	554	23	1201
Luppert, George, Williamsport, Pa. Tenoning-machine	286,546	Oct. 9	955	257	25	184
Lürmann, Fritz, Osnabrück, Germany. Apparatus for the continuous distillation, sublimation, or roasting of solid materials	279,099	June 5	601	163, 164	23	2296
Luscher, Daniel, Cincinnati, Ohio. Fire-escape	276,057	Apr. 17	1529	420	23	1504
Luscher, Emil G., Bergen, N. Y. Coal-hod	278,157	May 22	2005	551	23	1991
Luscomb, James E., assignor to M. Rooney, New York, N. Y. Box for bottles	271,087	Jan. 23	1560	449	23	317
Luse, David N., and J. W. Bell, Audubon, Iowa. Cultivator	284,565	Sept. 4	490	138	24	987
Luse, David N., and J. W. Bell, Audubon, Iowa. Plow	287,143	Oct. 23	1725	472	25	333
Lusk, George H., Pittsford, N. Y. Sleigh-thill	277,843	May 15	1623	442	23	1918
Lusk, Lewis N., Alamo, Mich. Gang corn-planter	271,722	Feb. 6	161	45	23	468
Luther, Charles J., Yonkers, N. Y. Gas-burner	285,049	Sept. 18	1103	307	24	1107
Luther, Conrad, Scranton, Pa. Car-coupling	287,385	Oct. 23	2028	551	25	387
Luther, Henry C., Providence, R. I. Manufacture of imitation stone for jewelry	274,350	Mar. 20	1424	390	23	1095
Luther, Henry C., Providence, R. I. Metallic eye for buttons	281,637	July 17	1622	443	24	295
Luther, Henry C., Providence, R. I. Undercut imitation stone	290,442	Dec. 18	1346	372	25	1139
Luther, James H., Karnes City, Pa. Gas-regulator	272,281	Feb. 13	864	242	23	602
Luther, James H., Karnes City, Pa. Gas-regulator	272,282	Feb. 13	865	242	23	602
Luther, James H., Karnes City, Pa. Hose-coupling	274,951	Apr. 3	67	24	23	1240
Luther, John, St. Joseph, Mo. Portable sink	274,952	Apr. 3	88	24	23	1240
Luton, James H., Norfolk, Va. Packing for hydraulic cylinders	289,776	Dec. 4	501	139	25	973
Lutted, James, Buffalo, N. Y. Machine for making confections	284,136	Aug. 28	2043	568	24	891
Lutz, Albert J., New York, N. Y. Roller-skate	277,911	May 22	1707	466	23	1940
Lutz, Charles H., assignor of one-half to F. C. Brown and J. F. Estill, Lewisburg, W. Va. Animal-trap	282,463	July 31	2700	742	24	491
Lutz, George W., Indianapolis, Ind. Speculum and vaginal irrigator	277,042	May 8	667	174	23	1746
Lutz, George W., Indianapolis, Ind. Stem-pessary	277,424	May 8	1124	302	23	1826
Lutz, George W., assignor of one-half to J. S. Trimble, Wheeling, W. Va. Steam-generator	288,584	Nov. 13	1000	275	25	691
Lutz, John, Xenia, Ohio. Wagon end-gate	277,303	May 8	986	265	23	1802

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Lutz, John W. (See Way and Lutz.)						
Lutz, W. Clay, Bedford, assignor of one-half to J. Du Bois, Everett, Pa. Fire-escape	290,080	Dec. 11	879	249	25	1049
Luttiff, C. G. (See Campfield, Matthew E., assignor.)						
Lux, John H. and P., Earlville, Iowa. Harrow	280,751	July 3	503	143	24	90
Lux, Philip. (See Lux, John H. and P.)						
Lybrand, Lucius. (See Emmons, Lucius H., assignor.)						
Lydecker, John J. (See Decker, William J., assignor.)						
Lyell, Albert G., Hunnewell, Mo. Apparatus for supplying water for stock	280,051	June 26	1781	499	23	2449
Lyford, S. C. (See Michaelis, Otho E., assignor.)						
Lyle, Hugh F., Staunton, assignor of one-third to W. S. Humphries, Vesuvius, Va. Plow-point and colter	272,283	Feb. 13	866	242	23	603
Lyle, Robert W., Rochester, N. Y. Apparatus for cutting sewer-pipe into sections	272,727	Feb. 20	1440	404	23	707
Lyman, Asa, *et al.* (See Ingalls, William A., assignor.)						
Lyman, Charles P., *et al.* (See Leland, Edwin A., assignor.)						
Lyman, Daniel T., *et al.* (See Ingalls, William A , assignor.)						
Lyman, Fordyce A., Cleveland, Ohio. Gas-generator	275,677	Apr. 10	1058	287	23	1415
Lyman, Seymour, White Plains, N. Y. Puzzle-card for object-teaching	274,799	Mar. 27	1995	555	23	1202
Lyman, William H. (See Chadwick, John L., assignor.)						
Lynam, John, Cleveland, Ohio. Wire-reeling machine	274,953	Apr. 3	89	24	23	1240
Lynam, Joseph, San José, Cal. Cell-case for eggs	289,010	Nov. 27	1527	422	25	797
Lynch, George B., Darlington, Ind. Grain-meter	283,351	Aug. 14	1064	299	24	699
Lynch, George B., and T. J. Griffith, Darlington, Ind. Grain-meter	270,821	Jan. 16	1230	355	23	255
Lynch, Howard, New York, N. Y., and F. L. Sheldon, Rahway, N. J. Shirt	270,087	Jan. 2	301	89	23	61
Lynch, John, Portland, Me. Tile, architectural terra-cotta work, and pottery articles	271,088	Jan. 23	1561	450	23	317
Lynch, John, Portland, Me. Drain-tile	271,089	Jan. 23	1562	450	23	317
Lynch, John, Allegheny city, Pa. Cupel-furnace	275,232	Apr. 3	449	125	23	1303
Lynch, John, Washington, D. C. Underground conduit	275,233	Apr. 3	450	125	23	1303
Lynch, John B., administrator. (See Lynch, Owen.)						
Lynch, John S., and M. A. Heath, Providence, R. I. Machine for pressing gimp	282,544	Aug. 7	82	23	24	514
Lynch, John T., New York, N. Y. Pin for neck-wear shields	275,234	Apr. 3	451	125	23	1303
Lynch, Matthew W., assignor to D. Curtis, Madison, Wis. Horse-collar pad	270,960	Jan. 23	1409	405	23	291
Lynch, Owen, deceased, J. B. Lynch, Leadville, Colo., administrator. Cable-stopper	276,841	May 1	395	105	23	1695
Lynd, Ives, Troy, N. Y. Lamp-wick	270,447	Jan. 9	754	221	23	156
Lynes, John, Price, Mo. Fodder-frame	270,233	Jan. 9	484	143	23	105
Lynn, Adam, Pataskala, Ohio. Hand-planter	283,499	Aug. 21	1252	351	24	738
Lyon, Albert, New York, N. Y. Molding	280,752	July 3	504	143	24	90
Lyon, George L., Albany, N. Y. Ice-creeper	288,647	Nov. 20	1080	296	25	711
Lyon, Henry, New York, N. Y., assignor to American Postal Telegraph Company. Telegraph-transmitter	283,716	Aug. 21	1503	424	24	786
Lyon, James B., Pittsburg, Pa. Mold for pressing articles of glassware	285,496	Sept. 25	1633	459	24	1207
Lyon, James W., Brooklyn, N. Y. Metal-screw machine	276,438	Apr. 24	2013	558	23	1595
Lyon, Philip, East Stroudsburg, Pa. Railway-switch	271,486	Jan. 30	2070	596	23	414
Lyon, Philip, and J. H. Bossard, East Stroudsburg, Pa. Fruit-jar	274,620	Mar. 27	1787	497	23	1164
Lyon, Robert H., *et al.* (See Phelan, John, assignor.)						
Lyon, William B., Pontiac, Ill. Hog-nose cutter	279,779	June 19	1437	402	23	2383
Lyons, Albert. (See Knoch, Charles, assignor.)						
Lyons, D. B. (See Lyons, James W., assignor.)						
Lyons, James W., assignor of one-third to D. B. Lyons, Des Moines, Iowa. Sash-balance	278,348	May 29	2288	626	23	2048
Lyons, Thomas, Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Sliding door-pull	287,039	Oct. 23	1595	439	25	308
Lyons, Timothy D., and D. J. Lineban, Brooklyn, N. Y. Cock and valve	273,862	Mar. 13	810	219	23	961
Lyons, William H. (See Robie and Lyons.)						
Lytle, Henry B., Boston, Mass. Flexible electrical conductor	284,216	Sept. 4	77	22	24	918
Lytle, Henry B., Boston, Mass., assignor to American Electrical Works, Providence, R. I. Apparatus for threading wires through tubes	273,295	Mar. 6	66	19	23	845
Lytle, Joseph, Cincinnati, Ohio. Car-brake	277,567	May 15	1326	356	23	1865
Maas, Harry R., Burlington, N. J. Shading drawings	282,653	Aug. 7	214	63	24	537
Mabille, Philippe, assignor to Mason & Hamlin Organ and Piano Company, Boston, Mass. Music-stand for organs, &c	270,234	Jan. 9	485	143	23	105
Mabry, Hinche P., Fort Worth, Tex. Ore-concentrator	287,840	Nov. 6	60	18	25	518
MacCarty, Samuel, Aurora, Ill. Fire-escape	284,451	Sept. 4	353	98	24	964
MacDonald, John, Norwood, Mass. Sink-trap	279,655	June 19	1298	361	23	2359
MacEachran, Dugald, Greenock, county of Renfrew, Scotland. Refining, purifying, or clarifying saccharine or other substances	276,843	May 1	397	.....	23	1696
MacEachran, Dugald, Greenock, county of Renfrew, Scotland. Apparatus for separating iron from charcoal, &c	289,545	Dec. 4	215	60, 61	25	924
MacFarlane, James, Claremont, N. H. Vertical loom	278,715	June 5	51	16	23	2133
MacKay, Donald D., Whitestone, N. Y., and B. A. Armstrong, New London, Conn. Silk-tester	280,491	July 3	195	51	24	36
MacLaine, Alexander, Belfast, Ireland. Piston for steam and other engines	288,082	Nov. 6	362	101	25	569
Mac Mahon, Michael, assignor of five-eighths to S. Van Ness and D. Sullivan, Brooklyn, N. Y. Car-axle lubricator	281,538	July 17	1496	411	24	276
MacMackin, Bernard. (See Young, William H., assignor.)						
Macann, Crowell S., Rahway, assignor of one-half to A. Cook, Newark, N. J. Ticket-holder for car-seats	274,621	Mar. 27	1788	497	23	1164
Macaulay, Thomas A., New York, N. Y. Sewing-machine	272,844	Feb. 20	1604	449	23	736
Macaulay, Thomas A., New York, N. Y. Tension-release for sewing-machines	273,562	Mar. 6	418	112	23	905
Macaulay, Thomas A., New York, N. Y. Sewing-machine. (Reissue)	10,317	Apr. 24	2150	598	23	1618
Macaulay, Thomas A., New York, N. Y. Sewing-machine	276,842	May 1	396	105	23	1695
Macaulay, Thomas A., New York, N. Y. Mechanical movement	278,806	June 5	173	51	23	2152
Macauley, Joseph H. (See Fuller and Macauley.)						
Macbeth, George A. (See Dietrich, Henry, assignor.)						
Macbeth, Norman, Bolton le Moors, county of Lancaster, England. Sheet-metal pulley and drum	286,028	Oct. 2	304	85	25	57
Macbrair, Charles C., Cincinnati, Ohio. Device for stippling, shading, or tinting printing stones or plates	288,081	Nov. 6	361	100	25	569
Macdonald, Hugh, Detroit, Mich. Steam-radiator	271,723	Feb. 6	163	45	23	468
Macdonell, Allan G., New York, N. Y. Automatic advertising-table	283,408	Aug. 21	1135	321	24	717
Macdonough, Thomas, Benton, Mich. Fire-escape	286,456	Oct. 9	846	229	25	165
Mace, Charles. (See Steel, Robert, assignor.)						
Mace, Charles. (See Stites, George, assignor.)						
Mace, Theodore. (See Atwood, James E., assignor.)						
Mace, Theodore, Plainfield, N. J. Insulator for electric conductors	272,069	Feb. 13	603	163	23	556

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Macfarland, Harriet M. (See Knight and Macfarland.)						
Macfarlane, Thomas, Acton Vale, Quebec, assignor of one-half to A. Ramsay, Montreal, Canada. Manufacture of anhydrous sulphide of zinc	271,090	Jan. 23	1562	.....	23	317
Macgeorge, Ebenezer F., St. James Park, Hawthorn, near Melbourne, Victoria. Method of and apparatus for determining the inclination of borings	270,597	Jan. 16	952	275	23	203
Macgeorge, Ebenezer F., St. James Park, Hawthorn, Victoria. Clinometer-compass and apparatus for reading its indications	281,772	July 24	1811	495	24	334
Machen, August W. (See Blomquist and Buskirk, assignors.)						
Macher, Christian, and J. S. Lins, Wilmington, Ill. Bung-extractor	287,305	Oct. 23	1934	528	25	370
Machette, Samuel T., *et al.* (See Townsend, William H., assignor.)						
Mack, Albert G., Chicago, assignor of one-half to J. F. Quinn, Englewood, Ill. Combined chamber and slop bucket	289,011	Nov. 27	1528	422	25	797
Mack, Alfred L., assignor of one-half to M. L. Best, L. L. and J. Miller, Canton, Ohio. Reservoir for burning-fluids	286,211	Oct. 9	527	145	25	107
Mack, Eugene. (See Hosner, Riley J., assignor.)						
Mack, Eugene, Addison, Mich. Door-hanger	281,537	July 17	1495	411	24	276
Mack, Frank M. (See Rheubottom and Mack.)						
Mack, George J., De Forest, Wis. Lash-cutter	273,749	Mar. 13	655	175	23	954
Mack, Jacob A. (See Phelps and Hanson, assignors.)						
Mack, John M., Cedar Vale, Kans. Nut-lock	272,565	Feb. 20	1245	347	23	672
Mack, John M., Cedar Vale, Kans. Windmill	272,566	Feb. 20	1246	{347 {348	23	673
Mack, Russell L. (See Bewley and Mack.)						
Mack, William. (See Deeds, John B., assignor.)						
Mack, William. (See Deeds and Mack.)						
Mack, William, Indianapolis, Ind. Barrel-hoist	278,570	May 29	2553	696	23	2095
Mackay, Frederick N. (See Siddeley and Mackay.)						
Mackay, John W. (See Baujard, Edmond O., assignor.)						
Mackay, John W. (See Baujard, Edmund, assignor.)						
Mackay, John W. (See De Castro, Hector, assignor.)						
Mackel, John B., Las Vegas, N. Mex. Ter. Cork-soled shoe	272,284	Feb. 13	867	242	23	603
Mackenzie, James, Osnaburgh Street, county of Middlesex, England. Portable voltaic battery	270,551	Jan. 9	891	258	23	184
Mackenzie, James U., New York, N. Y. Electrical visual indicator	273,563	Mar. 6	419	{112 {113	23	906
Mackenzie, James U., Brooklyn, N. Y. Puzzle	278,571	May 29	2553	697	23	2095
Mackenzie, Oscar C., Chicago, Ill. Temporary binder	280,199	June 26	1941	545	23	2478
Mackey, Thomas B., Dallas, Tex. Running-gear for wagons	271,487	Jan. 30	2071	597	23	414
Mackinney, Herbert G., Providence, R. I. Joint for jewelry-pins	273,564	Mar. 6	423	113	23	907
Mackinney, William C., assignor to J., C. C., and W. B. Butterworth, Philadelphia, Pa. Vacuum-valve	284,452	Sept. 4	355	98	24	964
Mackinnon, John, Denver, Colo. Self-acting dough-breaker	273,114	Feb. 27	1039	544	23	801
Mackintosh, James, Philadelphia, Pa. Electric wire cable	269,868	Jan. 2	55	17	23	13
Maclean, Charles W., Melbourne, Victoria. Counterbalance attachment to grab-operating mechanism	270,598	Jan. 16	953	276	23	204
Macleod, William A., Boston, Mass. Attachment for sewing-machines	283,799	Aug. 28	1613	454	24	817
Macomber, Samuel M., Grand Isle, Vt. Hand corn-planter	277,757	May 15	1526	414	23	1901
Macpherson, David J., Sioux Falls, Dak. Ter. Electric car-brake	273,565	Mar. 6	424	{113 {114	23	907
Macpherson, David J., assignor of one-half to J. B. Young, Sioux Falls, Dak. Ter. Automatic car-brake	288,461	Nov. 13	854	231	25	664
Macvay, William W., and R. Sykes, Castleford, county of York, England. Stoppering of bottles	277,758	May 15	1527	414	23	1901
Macy, William, Monroe, Ohio. Grain-separator	290,592	Dec. 18	1544	425	25	1173
Madden, John H., New York, N. Y. Grinding and polishing wheel	287,144	Oct. 23	1726	472	25	333
Maddin, Mary. (See Maddin, Samuel D., assignor.)						
Maddin, Samuel D., St. Paul, Minn., assignor to M. Maddin, Miamisburg, Ohio. Harvester	288,353	Nov. 13	707	194	25	638
Madison, James O., New York, N. Y. Spacing-instrument	287,145	Oct. 23	1727	473	25	333
Madsen, Niels C., and H. J. Nielsen, Copenhagen, Denmark. Apparatus for souring cream	279,876	June 19	1555	435	23	2404
Madson, Cornelius, Oslo, Wis., assignor to R. T. Tuttle, Perry, N. Y. Harvester-rake	283,409	Aug. 21	1136	321	24	718
Maeder, Maria A., Chelsea, Mass. Spoon-rest	277,304	May 8	987	265	23	1802
Magaw, Frederick L., Flatlands, N. Y., assignor of two-thirds to J. A. Peer, Grass Valley, Cal., and W. C. Edes, Boston, Mass. Chain sawing-machine	279,780	June 19	1438	{402 {403	23	2383
Magaw, Frederick L., Flatlands, N. Y., assignor of two-thirds to J. A. Peer, Grass Valley, Cal., and W. C. Edes, Boston, Mass. Chain cutter	279,781	June 19	1439	403	23	2384
Magee, Daniel W., New York, N. Y., assignor to E. P. Miner, Hartford, Conn. Ejector	284,453	Sept. 4	356	99	24	964
Magee, Frank A. (See Bostwick, Seymour A., assignor.)						
Mager, Daniel. (See Miller and Mager.)						
Maggio, Antonino, New Orleans, La. School-slate	279,656	June 19	1299	361	23	2359
Magner, David P., *et al.* (See Hoffman, Edward J., assignor.)						
Magner, Patrick J., *et al.* (See Hoffman, Edward J., assignor.)						
Magnus, Eugene B., Brooklyn, N. Y. Car-coupling	272,285	Feb. 13	868	243	23	603
Magoun, Thomas P. I., Bath, Me. Piano-stool	286,457	Oct. 9	847	230	25	165
Magowan, Francis A., Trenton, N. J., and R. M. Bassett, Birmingham, Conn. Manufacture of pottery	290,443	Dec. 18	1347	373	25	1139
Magroevy, William P., assignor of one-half to J. B. Baldwin, New Orleans, La. Steam-generator	277,844	May 15	1624	442	23	1918
Magruder, George C. W., Tennallytown, assignor of one-half to S. B. Muncaster, S. D. Webb, and W. O. Denison, Washington, D. C. Curry-comb	282,338	July 31	2540	695	24	463
Maguire, Jacob C., Little Falls, N. J. Dyeing and finishing plush fabrics	283,500	Aug. 21	1253	.....	24	738
Maguire, John, assignor of one-half to W. Maguire, Toronto, Ontario, Canada. Waterproof coat	273,115	Feb. 27	1040	544	23	801
Maguire, John A., Philadelphia, Pa. Horseshoe	274,800	Mar. 27	1996	555	23	1202
Maguire, Terrence G., Boston, Mass. Chair	277,759	May 15	1528	{414 {415	23	1901
Maguire, William. (See Maguire, John, assignor.)						
Mahan, Frank M., assignor of three-fourths to C. B. Kelley, Chicago, Ill. Paper wheel	290,081	Dec. 11	879	249	25	1049
Mahan, Miles. (See Bassford and Mahan.)						
Mahaney, John J., *et al.* (See Hilbert, Charles, assignor.)						
Mahar, Michael W., National Military Home, Ohio, assignor of three-fourths to J. M. Patterson, Windfall, Ind. Sash-fastener	275,778	Apr. 10	1189	326	23	1437
Mahar, Michael W., National Military Home, Ohio, assignor of three-fourths to J. M. Patterson, Windfall, Ind. Sash-fastener	275,779	Apr. 10	1190	326	23	1437

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Mahar, Michael W., National Military Home, Ohio, assignor of three-fourths to J. M. Patterson, Windfall, Ind. Pocket-book	275,780	Apr. 10	1191	326	23	1437
Mahar, Michael W., National Military Home, Ohio, assignor of three-fourths to J. M. Patterson, Windfall, Ind. Fare-box	275,781	Apr. 10	1191	327	23	1437
Mahar, Michael W., National Military Home, Montgomery county, assignor of one-third to P. Mitchell, Dayton, Ohio. Pocket-book holder	281,638	July 17	1623	443	24	295
Maher, Martin. (See Liess and Maher.)						
Maher, Thomas A. (See Rogers and Maher.)						
Mahle, Clemence A. (See Hall and Mahle.)						
Mahon, Alexander B., Pensacola, Fla. Car-coupling	288,083	Nov. 6	364	101	25	570
Mahon, Aurelius W., assignor of one-half to C. D. & H. C. Larus, Richmond, Va. Tobacco-press	277,912	May 22	1707	466	23	1940
Mahoney, John, and D. W. Shockley, Wilmington, Del. Railway cross-tie	280,200	June 26	1942	546	23	2478
Mahoney, John J. (See Welch, Coughlin, and Mahoney.)						
Mahoney, Michael J., *et al.* (See Davey, John F., assignor.)						
Mahrenholz, Henry J., New York, N. Y. Boot-top	275,678	Apr. 10	1059	287	23	1415
Main, Prentice. (See Clark, William, assignor.)						
Main, Sylvester V., Napoleon, Ind. Corn-planter	274,351	Mar. 20	1424	390	23	1095
Mais, Michel, South Bend, Ind. Vehicle-brake	280,939	July 10	751	209	24	138
Major, Charles G. (See Stevens, Major, and Edwards.)						
Majors, Archibald C. (See Reams and Majors.)						
Majors, Green. (See Sharpneck, William S., assignor.)						
Malcolmson, Thomas, assignor of one-half to O. B. Goodwin, Oil City, Pa. Steam-engine governor	270,684	Jan. 16	1065	305	23	293
Malcolmson, Thomas, assignor of one-half to O. B. Goodwin, Oil City, Pa. Steam-governor	289,427	Dec. 4	66	19	25	898
Malcolmson, Thomas, assignor of one-half to O. B. Goodwin, Oil City, Pa. Steam-governor	289,428	Dec. 4	67	19	25	898
Malcom, Robert, assignor to himself and W. F. Milford, Cornwall, N. Y. Fruit-jar	288,084	Nov. 6	365	101	25	570
Malick, Wesley. (See Burns and Malick.)						
Malick, Wesley, Girard, assignor of one-third to J. M. Force and H. C. Yard, Erie, Pa. Combined mop and wringer	290,187	Dec. 11	999	282	25	1071
Maliphant, Charles, New Brighton, assignor to himself and G. Clark, Tompkinsville, N. Y. Fire-escape	284,871	Sept. 11	873	245	24	1059
Mallard, William S., Darien, Ga. Rice-field trunk and gate	283,264	Aug. 14	952	266	24	677
Malleson, Frederick, Brooklyn, N. Y. Fishing-reel	284,217	Sept. 4	79	22	24	918
Mallett, Charles H., and Z. T. Furbish, Augusta, Me. Screw-driver	275,235	Apr. 3	452	125 126	23	1303
Mallett, Francis W., assignor to C. Howard & Co., Brockton, Mass. Needle-machine	275,782	Apr. 10	1192	327	23	1438
Mallinckrodt Brake Company. (See Katzenmayer, Ernest, assignor.)						
Mallinckrodt Brake Company. (See Mallinckrodt, John F., assignor.)						
Mallinckrodt Brake Company. (See Mallinckrodt, John F., assignor.) (Reissue.)						
Mallinckrodt, John F., Zaleski, Ohio, assignor to Mallinckrodt Brake Company, East St. Louis, Ill. Car-brake	273,566	Mar. 6	426	114	23	907
Mallinckrodt, John F., Denver, Colo., assignor to Mallinckrodt Brake Company, East St. Louis, Ill. Car-brake	273,567	Mar. 6	427	114 115	23	907
Mallinckrodt, John F., Denver, Colo., assignor, by mesne assignments, to Mallinckrodt Brake Company, East St. Louis, Ill. Car-brake. (Reissue)	10,318	Apr. 24	2152	599	23	1619
Mallinson, Joseph, Selby, county of York, England. Piano-forte action	270,322	Jan. 9	589	173 174	23	125
Mallory, Alonzo R., *et al.* (See Mathis, Sanford, assignor.)						
Mallory, Augustus H., *et al.* (See Mathis, Sanford, assignor.)						
Mallory, Charles M., Toledo, Ohio. Hay-elevator	282,654	Aug. 7	216	63	24	537
Mallory, Frank B., New York, N. Y. Awning and curtain frame for boats	270,448	Jan. 9	754	221	23	156
Mallory, Frank B., New York, N. Y. Curtain-fixture	277,760	May 15	1530	415	23	1902
Mallory, Frank B., New York, N. Y. Curtain-fixture	284,454	Sept. 4	358	99	24	964
Mallory, Frank B., New York, N. Y. Awning	284,872	Sept. 11	875	246	24	1060
Mallory, Jeremiah D. (See Ernst, John G., assignor.)						
Mallory, Thomas H., Red Wing, Minn. Milk-cooler	290,900	Dec. 25	1944	536	25	1250
Mallory, Wheeler & Co. (See Andrews, William H., assignor.)						
Malloy, Francis, Norristown, Pa. Holy-water font made from glass, porcelain, or other suitable material	288,085	Nov. 6	366	101	25	570
Malone, Abner J. (See Rinderknecht, Charles, assignor.)						
Malone, John D., and J. F. Hamel, Pittsburg, Pa. Steam plowing-machine	277,761	May 15	1530	415 416	23	1902
Malone, Thomas H., Milwaukee, and G. A. Whiting, Neenah, Wis. Instrument for forming metal seals	276,058	Apr. 17	1530	421	23	1504
Malone, Thomas H., Milwaukee, and G. A. Whiting, Neenah, Wis. Attaching seals to cars	282,205	July 31	2374	653	24	434
Malone, William D. (See Fraley, Alexander, assignor.)						
Maloney, James A., Washington, D. C. Telephonic repeater and relay	287,449	Oct. 30	2111	574	25	410
Maloney, James, assignor to J. W. Coffin, Providence, R. I. Extractor for brakedown guns	271,645	Feb. 6	74	20	23	453
Maloney, James A., Washington, D. C., assignor to S. H. Carney, trustee, New York. Secondary battery	271,880	Feb. 6	353	98	23	502
Maloney, James A., Washington, D. C., assignor to S. H. Carney, trustee, New York. Receiving-telephone	274,352	Mar. 20	1426	391	23	1095
Maloney, James A., Washington, D. C., assignor to S. H. Carney, trustee, New York. Electric telephone-transmitter	274,353	Mar. 20	1427	391	23	1095
Maloney, James A., assignor of one-half to G. W. Cooper, Washington, D. C. Telegraphic relay and repeater	289,285	Nov. 27	1859	516	25	858
Maloney, Philip S., Philadelphia, Pa. Paving-tool	288,825	Nov. 20	1303	357	25	749
Malony, William. (See Sinclair, James H., assignor.)						
Maloney, William A., Denver, Colo. Spark-arrester	284,646	Sept. 11	593	167	24	1011
Malsbary, Job. (See Rader and Malsbary.)						
Maltby, Christopher C., and J. F. Sabine, Chico, Cal. Surcingle	274,801	Mar. 27	1997	555	23	1202
Maltby, Horace, Stapleton, N. Y., and A. K. Gardner, Jersey City, N. J. Ornamenting woven cloth fabrics	289,249	Nov. 13	570	158	25	616
Maltby, Oliver E., *et al.* (See Buie, Duncan M., assignor.) (Reissue.)						
Maltby, Sidney, assignor of one-half to E. L. Lambie, Washington, D. C. Piston	277,305	May 8	988	265 266	23	1802
Man, Buel A. (See Wilson, George W., assignor.)						
Manahan, John F., Lowell, Mass. Ladder-hook	285,637	Sept. 25	1805	514	24	1240
Manahan, Thomas, New York, N. Y. Pad for exterminating insects	276,844	May 1	398	105	23	1696
Manchester, Francis L. (See Richardson and Manchester.)						
Manchester, Richard S., assignor of one-half to W. W. Lake, Dayton, Ohio. Gage-cock	272,286	Feb. 13	869	243	23	603

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mandeville, James H. (See Baker, Cyrus M., assignor.)						
Mandeville, James H. (See Baker, Sanford J., assignor.)						
Mandeville, James H., trustee. (See Reynolds, John M., assignor.)						
Mandrill, George W., Gloversville, N. Y. Glove-fastener	274,507	Mar. 27	1649	459	23	1140
Mangold, Leonard. (See Cahill and Mangold.)						
Manhattan Brass Company. (See Hipwell, Thomas, assignor.)						
Manhattan Brass Company. (See White, James H., assignor.)						
Manley, Aaron R., San José, Cal. Roof-scaffolding	283,908	Aug. 28	1737	490	24	838
Manley, Aaron R., San José, Cal. Flour bin and sifter	283,909	Aug. 28	1738	491	24	838
Manley, Charles W., North Abington, Mass. Scarf	276,845	May 1	399	105	23	1696
Manley, William, Rochester, N. Y. Machine for finishing boot and shoe heels	284,566	Sept. 4	491	138, 139	24	988
Manly & Cooper Manufacturing Company. (See Manly, Robert P., assignor.)						
Manly, Robert P., assignor of one-half to Manly & Cooper Manufacturing Company, Philadelphia, Pa. Fire-proof shutter	281,198	July 10	1064	293	24	195
Mann, Amos C., St. Louis, Mo. Grate-bar	275,679	Apr. 10	1060	287	23	1415
Mann, Amos C., assignor of one-fourth to F. Krein, St. Louis, Mo. Producing Babbitt metal	285,638	Sept. 25	1806	.....	24	1240
Mann, Augustine A. (See Notley, William, assignor.)						
Mann, Bela A., Hamden, Conn. Stop-motion for looms for weaving elastic webbing	288,462	Nov. 13	855	231	25	664
Mann, Charles A., Buffalo, N. Y. Barbed-wire fence	276,439	Apr. 24	2014	559	23	1595
Mann, Charles A., Buffalo, N. Y. Wire fence	284,218	Sept. 4	80	22	24	918
Mann, Charles B. (See Boyden, George A., assignor.)						
Mann, Charles W., San Marcos, Tex. Gin-saw	287,450	Oct. 30	2112	574	25	410
Mann, David. (See Cubberley and Mann.)						
Mann, Frederic C., East Bridgewater, Mass. Bat-gathering attachment for cotton-condensers	271,488	Jan. 30	2072	597	23	414
Mann, Frederic C., East Bridgewater, Mass., and H. Schumacher, Navasota, Tex. Oil-press mat	276,846	May 1	399	106	23	1696
Mann, Frederick C. (See Strong and Mann.)						
Mann, Henry F., Pittsburg, Pa. Quoit	281,773	July 24	1814	495	24	335
Mann, Henry F., Pittsburg, Pa. Implement for capping and uncapping cartridge-shells	288,950	Nov. 20	1452	401	25	777
Mann, James W. (See Cook, Thomas G., assignor.)						
Mann, Lewis. (See McCormick, David A., assignor.)						
Mann, Lewis, *et al.* (See Cowell, Edward R. E., assignor.)						
Mann, Oscar H. (See Gamble, Henry E., assignor.)						
Mann, Robert M. (See Russell, John M., assignor.)						
Mann, William H., *et al.* (See Cartwright, Edward, assignor.)						
Mann, William I. (See Stevens and Mann.)						
Mann, William I., Braddock, Pa. Hose and pipe coupling	270,323	Jan. 9	590	174	23	125
Mann, William T., *et al.* (See Beechey, Charles G., assignor.)						
Manneck, Charles H., Brooklyn, N. Y., and W. Witte, New Haven, Conn. Box-covering machine	278,442	May 29	2403	655, 656	23	2068
Manner, Charles V. (See Steber, Joseph C., assignor.)						
Mannie & Co., George A. (See Titus, James M., assignor.)						
Manning, Charles E., *et al.* (See Teall, Augustus T., Jr., assignor.)						
Manning, Charles H., Washington, D. C. Eyeglass-case	272,450	Feb. 20	1090	307	23	645
Manning, Harry W. (See Strickle and Manning.)						
Manning, James H., Albany, N. Y. Manufacture of buttons	286,620	Oct. 16	1060	285	25	209
Manning, John C. (See Galivan and Manning.)						
Manning, John J., Great Barrington, Mass. Method of and apparatus for exhausting the air and extracting the water from the suction-boxes of paper-machines	282,096	July 31	2217	610	24	409
Manning, John J., Great Barrington, Mass. Method of and apparatus for exhausting the air and extracting the water from the suction-boxes of paper-machines	282,097	July 31	2219	610	24	410
Manning, John J., Great Barrington, Mass. Beating and refining engine for paper-pulp	282,098	July 31	2221	610	24	410
Manning, John N., *et al.* (See Ritchie, John, assignor.)						
Manning, John W., Arkansas City, Kans. Feed-trough	273,116	Feb. 27	1941	544	23	801
Manning, William, *et al.* (See Teall, Augustus T., Jr., assignor.)						
Manny, Abraham J., St. Louis, Mo. Cane-mill	282,339	July 31	2541	696	24	463
Manny, John P., Rockford, Ill. Harvester	276,847	May 1	401	106	23	1696
Manor, Edward P. (See Blodgett, Gardner S., assignor.)						
Mansbach, Louis H., Milwaukee, Wis. Lacing-stud for gloves, &c	285,050	Sept. 18	1104	308	24	1107
Mansfield, Eben B., Malden, assignor of one-half to T. Curley, Waltham, Mass. Roller for parlor-skates	278,066	May 29	2670	730	23	2115
Mansfield, Eben B., Malden, assignor of one-half to T. Curley, Waltham, Mass. Roller for parlor-skates	279,406	June 12	1005	278	23	2302
Mansfield, James H., Gloucester, Mass. Detachable cover for boats	277,146	May 8	806	212	23	1770
Manson, William, Chicago, Ill. Hoisting-derrick	290,780	Dec. 25	1795	496	25	1225
Mantion, Joseph H. (See Millen, Mantion, Labelle, and Cook.)						
Mantle, Alfred W., Eckernförde, Germany. Thrashing-machine	278,716	June 5	53	16	23	2134
Mantle, Alfred W., Eckernförde, Germany. Thrashing-machine	278,717	June 5	55	17	23	2134
Mantle, Lee, *et al.* (See Bassford, Isaac F., assignor.)						
Manton, Frank S. (See Winter and Manton.)						
Mantz, William H., and R. Blum, Mount Vernon, Ill. Toy milch cow	275,053	Apr. 3	221	60	23	1264
Manvel, Homer. (See Williams and Manvel.)						
Maples, Melvin, Hartwick, N. Y. Folding table	287,306	Oct. 23	1935	528	25	370
Maranville, Egbert L., assignor of one-half to M. D. Nicholson, Rutland, Vt. Attachment for ovens of cooking-stoves	274,009	Mar. 13	981	269	23	1010
Maranville, Egbert L., assignor of one-half to E. Bowman, Rutland, Vt. Turn-table for stove-ovens	286,029	Oct. 2	305	85	25	57
Marbach, Hermann L., Cleveland, Ohio. Dart	275,236	Apr. 3	453	126	23	1303
Marchand, Charles, New York, N. Y. Manufacture of hydrogen-peroxide	273,569	Mar. 6	430	115	23	908
Marchand, Charles, assignor to L. F. Beckwith, E. Gillet, and A. J. Rosai, trustees, New York, N. Y. Compound for use in refrigerating-machines	275,834	Apr. 17	1266	.....	23	1457
Marchand, Francis T., Annapolis, Md. Maintaining power for clock-springs	278,572	May 29	2555	697	23	2095
Marchand, Henry E., Allegheny city, Pa. Measuring-pump	275,680	Apr. 10	1060	288	23	1415
Marchand, Henry E., Allegheny City, Pa. Mechanical movement	290,901	Dec. 25	1945	536	25	1250
Marchand, Henry E., assignor to Marchand Manufacturing Company, (limited,) Allegheny, Pa. Measuring-pump	287,697	Oct. 30	2447	659	25	475
Marchand Manufacturing Company. (See Marchand, Henry E., assignor.)						
Marchant, Joseph. (See Phillips, Elwood C., assignor.)						
Marcoux, Moïse, St. Eugène de Grantham, Quebec, Canada. Shingle-sawing machine	285,051	Sept. 18	1105	308, 309	24	1107
Marcus, Morris, Chicago, Ill. Suspenders	289,429	Dec. 4	69	20	25	899

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Marcus, Morris H., Edenburg, assignor of one-half to L. A. Katz, Braddock, Pa. Sample-dummy	290,188	Dec. 11	1001	282	25	1071
Marcus, Siegfried, Vienna, Austria-Hungary. Magneto-electric machine	275,237	Apr. 3	454	126	23	1304
Marcus, Siegfried, Vienna, Austria-Hungary. Vaporizer	275,238	Apr. 3	456	127	23	1304
Marcus, Siegfried, Vienna, Austria-Hungary. Rotary engine and pump	292,340	July 31	2543	696	24	464
Marcus, Siegfried, Vienna, Austria-Hungary. Gas-engine	286,030	Oct. 2	306	86, 87	25	57
Marcy, Frederick I. (See Covell, William W., assignor.)						
Marcy, Frederick I. (See Walcott, Jabez E., assignor.)						
Marden, Aldis H., Cambridge, Mass. Car-brake	270,962	Jan. 23	1410	406	23	292
Mardi, T. F., *et al.* (See Schwaner, Christian C., assignor.)						
Marembeck, George W., Philadelphia, Pa. Air-heating furnace	290,902	Dec. 25	1946	537	25	1250
Marett, John T., assignor to Halstead & Spencer, Philadelphia, Pa. Street-car bell	284,032	Aug. 28	1912	536	24	869
Margileth, Bernard C., Aurora, Ind. Fire-escape	289,286	Nov. 27	1860	517	25	858
Margileth, Bernard C., Aurora, Ind. Fire-proof box for fire-escapes	289,287	Nov. 27	1861	517	25	859
Margot, Henry D., Mountain View, Cal. Floor-clamp	284,747	Sept. 11	26	203	24	1034
Marin, Charles, assignor of one-half to G. J. Dailey, St. Louis, Mo. Horse-collar	283,717	Aug. 21	1505	424	24	786
Marion, Joseph, Brooklyn, N. Y. Oil-stove	278,574	May 29	2557	698	23	2095
Mariotte, Abel, Véreux, France. Method of milling and apparatus used therein	270,906	Jan. 23	1335	385, 386	23	280
Mariotte, Abel, Véreux, France. Grist or flouring mill	278,718	June 5	56	17	23	2134
Maris, George, New York, N. Y. Pestle-handle	278,575	May 29	2558	698	23	2096
Marix, Arthur. (See McCarty, William F. C., assignor.)						
Mark, Charlie E., Flint, Mich. Car-coupling	275,054	Apr. 3	222	61	23	1264
Mark, Charlie E., Flint, Mich. Car-coupling	278,573	May 29	2556	697	23	2095
Mark, Charlie E., Flint, Mich. Railway-chair	285,142	Sept. 18	1221	343	24	1126
Mark, Henry J., St. Louis, Mo. Veneer-cutting knife	288,463	Nov. 13	857	231	25	664
Mark, Henry J., assignor of one-half to H. B. Gans, Jr., St. Louis, Mo. Veneer-cutting machine	288,585	Nov. 13	1001	275, 276	25	691
Markees, Julius, St. Louis, Mo. Toy ten-pin table	270,088	Jan. 2	301	90	23	61
Markel, John L. (See Megow, Charles, assignor.)						
Marker, Stephen A., Newark, N. J. Harness-saddle	278,349	May 29	2289	626	23	2048
Markie, James, London, England. Metal last	272,143	Feb. 13	698	191	23	572
Markley, Watson, and E. Ingraham, Minneapolis, Kans. Cultivator-plow	290,593	Dec. 18	1544	425	25	1174
Marks, Bennett D., Louisville, Ky. Dish or basket	271,881	Feb. 6	334	98	23	503
Marks, Bennett D., Louisville, Ky. Bottle-stopper fastener	281,199	July 10	1066	294	24	195
Marks, Bernard A. (See Delue, George V., assignor.)						
Marks, Frank R. (See Poolman and Marks.)						
Marks, Frank X. (See Lederer and Marks.)						
Marks, Herman P., assignor to Stirn & Lyon, New York, N. Y. Toy gun	277,496	May 15	1218	327, 328	23	1848
Marks, James, Newark, N. J. Laying underground electric wires	277,588	May 15	1328	356	23	1865
Marks, Thomas H., Baltimore, Md. Refrigerator	278,158	May 22	2005	552	23	1991
Marks, Walter F., Chapinville, N. Y. Variable feed device for grain-drills	277,306	May 8	991	266	23	1803
Marlay, James A. (See Runstetler and Marlay.)						
Marley, John W., Chicago, Ill. Electro-magnetic car-signal	271,882	Feb. 6	355	99	23	503
Marlin, Charles, New Point, Ind. Map-holder	279,961	June 26	1667	468	23	2429
Marlin, John M., New Haven, Conn. Ejector for magazine-guns	271,091	Jan. 23	1563	450	23	317
Marmon, Daniel W., Indianapolis, Ind., assignor to Nordyke & Marmon Company, of Indiana. Roller-mill	274,508	Mar. 27	1651	459, 460	23	1140
Marmon, Daniel W., Indianapolis, Ind., assignor to Nordyke & Marmon Company, of Indiana. Roller-mill	275,835	Apr. 17	1267	348, 349	23	1458
Marmon, Daniel W., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Roller-mill	276,440	Apr. 24	2015	559	23	1595
Marmon, Daniel W., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Roller-mill	277,307	May 8	992	266, 267	23	1803
Marmon, Daniel W., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Automatic feed-gate	281,707	July 24	1723	468	24	318
Marmon, Daniel W., and J. Warrington, Indianapolis, Ind., assignors to Nordyke & Marmon Company, of Indiana. Roller-mill	275,055	Apr. 3	223	61, 62	23	1264
Marneffe, Henri, Liege, Belgium. Vehicle brake and starter	277,308	May 8	993	267	23	1803
Maroney, John J., Bergen Point, N. J. Vehicle-axle	271,489	Jan. 30	2073	597	23	414
Marquart, Frank, and W. P. Hooper, New York, N. Y. Advertising	280,318	June 26	2094	589	23	2505
Marquis, Francis M., Zanesfield, Ohio. Propulsion of boats	276,144	Apr. 17	1639	451, 452	23	1523
Marrett, Walter H., Brunswick, Me. Pole and shaft for vehicles	284,033	Aug. 28	1913	536	24	869
Marrin, Charles C. (See Barry, Joseph E., assignor.)						
Marsden, Horatio, and H. Schofield, Sheffield, county of York, England. Vacuum-box used in paper-making machinery	289,675	Dec. 4	374	107	25	853
Marsden, Joseph, Far Rockaway, N. Y. Well-pump tubing	285,909	Oct. 2	166	47	25	32
Marsh, Charles W., *et al.* (See Blood, Maurice E., assignor.)						
Marsh, Charles W., *et al.* (See Whitney, Charles, assignor.)						
Marsh, Edward. (See Graves, Charles G., assignor.)						
Marsh, Edward B. (See Shields, James H., assignor.)						
Marsh, George A., Littleton, Mass., assignor to Avery Lactate Company, Portsmouth, N. H. Manufacture of lactates and lactic acid	290,252	Dec. 18	1086	.....	25	1095
Marsh, George A., Littleton, Mass., assignor to Avery Lactate Company, Portsmouth, N. H. Manufacture of lactates for the production of lactic acid	290,253	Dec. 18	1088	.....	25	1095
Marsh, James A. (See Scherer, Moll, and Marsh.)						
Marsh, Napoleon P., Joseph's Mills, W. Va. Hay-rack	275,239	Apr. 3	457	127	23	1304
Marsh, Riverius. (See Webster, Charles E., assignor.)						
Marsh, Riverius, New Brunswick, N. J. Lamp	272,567	Feb. 20	1247	348	23	673
Marsh, Riverius, New Brunswick, N. J. Decorated frame, pedestal, vase, &c	285,423	Sept. 25	1554	437	24	1192
Marsh, Wesley F., North Platte, Nebr. Portable trestle	284,873	Sept. 11	877	246	24	1060
Marsh, William W., *et al.* (See Blood, Maurice E., assignor.)						
Marsh, William W., *et al.* (See Whitney, Charles, assignor.)						
Marsh, William W., and M. E. Blood, Sycamore, Ill. Grain-binding harvester	275,681	Apr. 10	1062	288, 289, 290	23	1416
Marshall, Albert W., Indianapolis, Ind. Stereotype-plate holder	282,655	Aug. 7	216	63	24	537
Marshall, Andrew, assignor to I. Marshall, Pittsburg, Pa. Lathe	281,539	July 17	1497	411	24	276
Marshall, Charles E., Lockport, N. Y. Combination-tool	286,458	Oct. 9	847	230	25	165
Marshall, Flavius H., Darlington, Ind. Pitchfork attachment	273,568	Mar. 6	429	115	23	908
Marshall, George. (See Durkee, William H., assignor.)						
Marshall, George E., Turner's Falls, Mass. Paper-making machinery	275,056	Apr. 3	227	62	23	1265

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Marshall, George E., Turner's Falls, Mass. Boiler for digesting wood for paper-pulp	286,031	Oct. 2	311	88	25	58
Marshall, Harry C. (See Conde and Marshall.)						
Marshall, Ida. (See Marshall, Andrew, assignor.)						
Marshall, John, Cordova, Ill. Bowlder-grapple	271,490	Jan. 30	2074	597	23	414
Marshall, John E., Buffalo, N. Y. Double-address envelope	283,000	Aug. 14	629	178	24	618
Marshall, Moses J. S., *et al.* (See Bloom, David, assignor.)						
Marshall, Nathaniel, Arkwright Street, Nottingham, county of Nottingham, assignor to W. S. Thomson & Co., London, England. Knitting-machine	288,648	Nov. 20	1081	297, 298	25	711
Marshall, William C., New York, N. Y. Preserving meats	270,089	Jan. 2	302	.....	23	62
Marshall, William P., assignor of one-half to A. R. Shroyer, Logansport, Ind. Dinner-pail	272,387	Feb. 13	1005	281	23	625
Marshall, William S., Philadelphia, Pa. Folding valise	277,497	May 15	1219	328	23	1848
Marshall, William S., Chicago, Ill., assignor of one-half to H. H. McGaffey, Indianapolis, Ind. Pump	289,288	Nov. 27	1862	517	25	859
Marshman, Newman R., New York, N. Y. Mechanical musical instrument	277,309	May 8	995	267	23	1804
Marskey, Charles F., East Saginaw, Mich. Fire-escape	278,807	June 5	174	51	23	2152
Marsters, James F., Brooklyn, N. Y. Cartridge-loading mechanism	284,874	Sept. 11	878	246	24	1060
Mart, George W., assignor of one-third to G. Delker, Henderson, Ky. Spring-vehicle	284,455	Sept. 4	359	99	24	965
Martial, Antoine W., Houston, Tex. Cot	270,961	Jan. 23	1409	406	23	292
Martignoni, Johann, Bockenheim, near Frankfort-on-the-Main, Germany. Machine for cutting helical grooves in twist-drills	270,235	Jan. 9	486	143	23	105
Martignoni, Johann, Bockenheim, Germany. Groove-cutter	271,646	Feb. 6	75	21	23	453
Martin, Abram J., Catskill, N. Y. Secondary battery	274,802	Mar. 27	1998	555	23	1202
Martin, Adolf. (See Bell, Robert, assignor.)						
Martin, Andrew D., Abbeville, assignor to M. E. Petetin, New Iberia, La. Harness-oil	278,808	June 5	176	.....	23	2152
Martin, Annie M., administratrix. (See Nagele, Jacob, assignor.)						
Martin, Bruno, East Saginaw, Mich. Tobacco-resweating device	278,029	May 22	1853	506	23	1964
Martin, C. M., *et al.* (See Ball, Jacob, assignor.)						
Martin, Charles L., Charlottesville, Va. Lifting-jack	284,875	Sept. 11	879	247	24	1060
Martin, Christian C. (See Nagele, Jacob, assignor.)						
Martin, Daniel H., Ipswich, Queensland. Apparatus for the manufacture of air-gas	280,201	June 26	1943	546	23	2479
Martin, Edward, *et al.* (See Gartside, Joseph H., assignor.)						
Martin, Edwin H., Cleveland, Ohio. Pumping-engine	279,407	June 12	1006	279	23	2302
Martin Electric Wire Conducting Company. (See Martin, John F., assignor.)						
Martin, Gaylord, assignor to T. C. Gurney, Milwaukee, Wis. Brick-machine	288,649	Nov. 20	1085	298	25	711
Martin, George W., assignor of one-half to J. B. Martin, Covington, Ind. Horseshoe-calk	279,408	June 12	1007	279	23	2303
Martin, Harry T., Fort Robinson, Nebr. Auxiliary rifle-barrel for guns	271,883	Feb. 6	356	99	23	503
Martin, Henry D., Ypsilanti, Mich. Lawn and field mower	270,090	Jan. 2	303	90	23	62
Martin, Henry D., Ypsilanti, Mich. Bush-hammer	281,092	July 10	925	258	24	171
Martin, J. K., *et al.* (See Carr, William, assignor.)						
Martin, James, assignor of two-thirds to W. H. Martin and J. H. Middleton, Martin's Mills, Tenn. Coffin-lid fastener	281,382	July 17	1299	360	24	243
Martin, James, and A. S. Flint, Chicago, Ill. Vehicle-shaft support	282,545	Aug. 7	83	24	24	514
Martin, James P., St. Paul, Minn. Apparatus for milking cows	289,546	Dec. 4	217	61	25	924
Martin, John B. (See Martin, George W., assignor.)						
Martin, John C., Richmond, county of Surrey, England. Apparatus for grinding white lead, &c	286,720	Oct. 16	1186	320	25	231
Martin, John C., Richmond, county of Surrey, England. Apparatus for drying white lead	286,721	Oct. 16	1187	320	25	231
Martin, John C., Richmond, county of Surrey, England. Manufacture of white lead	290,444	Dec. 18	1348	.....	25	1139
Martin, John C., assignor of one-half to G. T. Redsull and W. W. Rogers, Tuscarora, Nev. Miner's candlestick	275,057	Apr. 3	229	62	23	1265
Martin, John F., Chicago, Ill. Compound for electric-wire insulators	282,914	Aug. 7	521	146	24	593
Martin, John F., Chicago, Ill. Electrical-wire insulator	286,937	Oct. 16	1455	400	25	277
Martin, John F., Chicago, Ill. Conduit for electric wires	286,938	Oct. 16	1456	400	25	277
Martin, John F., Chicago, Ill. Underground distributer for electric wires	286,939	Oct. 16	1459	401	25	277
Martin, John F., Chicago, Ill. Conduit for electric wires	286,940	Oct. 16	1460	401	25	277
Martin, John F., Chicago, Ill. Coupling for tubular insulators for electric wires	286,941	Oct. 16	1462	401, 402	25	278
Martin, John F., Chicago, Ill. Distributer for electric wires	286,942	Oct. 16	1464	402, 403	25	278
Martin, John F., Chicago, Ill. Supporting insulators for electric wires in underground conduits	286,943	Oct. 16	1467	403	25	279
Martin, John F., Chicago, Ill. Insulator for underground electric conductors	286,944	Oct. 16	1468	403	25	279
Martin, John F., Chicago, Ill. Conduit for electric conductors	286,945	Oct. 16	1470	404	25	279
Martin, John F., Chicago, Ill. Insulator for electric wires	286,946	Oct. 16	1471	404	25	279
Martin, John F., Chicago, Ill. Insulator for underground electric conductors	286,947	Oct. 16	1472	404	25	279
Martin, John F., Chicago, Ill. Underground multiple-wire cable	286,948	Oct. 16	1473	404	25	280
Martin, John F., Chicago, Ill. Distributing-box for electric wires	286,949	Oct. 16	1474	405	25	280
Martin, John F., Chicago, Ill. Conduit for electric wires	286,950	Oct. 16	1476	405	25	280
Martin, John F., Chicago, Ill. Electric-wire insulator	287,146	Oct. 23	1728	473	25	333
Martin, John F., assignor to Martin Electric Wire Conducting Company, Chicago, Ill. Insulating compound for electrical wires	274,622	Mar. 27	1788	.....	23	1164
Martin, John F., assignor to Martin Electric Wire Conducting Company, Chicago, Ill. Conduit for electrical wires	275,399	Apr. 10	705	188	23	1355
Martin, John H., Bidwell's Bar, Cal. Hydraulic-mining apparatus	277,762	May 15	1532	416	23	1902
Martin, Joseph B., assignor to Howes, Babcock & Ewell, Silver Creek, N. Y. Flour-packer	277,845	May 15	1625	443	23	1919
Martin, Joseph C., Burlington, Vt. Automatic cash-box system	276,441	Apr. 24	2016	560	23	1596
Martin, Joseph C., Burlington, Vt. Automatic cash-box system	284,456	Sept. 4	360	100	24	965
Martin, Michael L., Fort Wayne, Ind. Water-wheel	276,442	Apr. 24	2019	560	23	1596
Martin, Moritz, Bitterfeld, Prussia, Germany. Safety-lift	271,884	Feb. 6	357	99	23	503
Martin, Morris, Malden, Mass. Thermometric electric-circuit closer	286,722	Oct. 16	1189	320	25	231
Martin, Morris, Malden, assignor of two-thirds to E. A. and F. O. Jeffery, Boston, Mass. Electric heat-alarm	272,893	Feb. 27	1678	469	23	755
Martin, Morris T. (See Campbell and Martin.)						
Martin, Pearl, Medford, Mass. Vapor-stove	275,058	Apr. 3	230	63	23	1265
Martin, Robert H., Brooklyn, N. Y. Plastic cement mixture	276,697	May 1	208	.....	23	1660
Martin, Robert T., Toronto, Ontario, Canada. Numeral-frame	279,263	June 12	807	223	23	2271
Martin, Samuel, and J. F. Richards, Pittsburg, Pa. Electric-arc lamp	270,449	Jan. 9	756	222	23	156
Martin, Samuel W., Springfield, Ohio. Stop-valve	271,491	Jan. 30	2075	598	23	415
Martin, Sarah A., *et al.* (See Weiss, Charles W., assignor.)						
Martin, Sobiskey S., *et al.* (See Jones, Frank, assignor.)						
Martin, Thomas. (See Schaffert, John L., assignor.)						
Martin, Watts, Pennsborough, assignor of one-half to T. E. Davis, Harrisville, W. Va. Stock-car	273,570	Mar. 6	431	116	23	903

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Martin, W. Smith, Georgetown, S. C. Horse-detacher	288,464	Nov. 13	858	232	25	664
Martin, William, assignor to F. Dickson, Havana, N. Y. Sulky-plow	273,696	Mar. 6	581	155 156	23	934
Martin, William A., Laurens Court-House, S. C. Wheel for drawing water from wells	274,011	Mar. 13	984	270	23	1010
Martin, William F., Dannemora, assignor of two-thirds to B. S. W. Clark, Plattsburg, and G. M. Clark, Dannemora, N. Y. Machine for sizing and shrinking hats	274,623	Mar. 27	1789	497	23	1164
Martin, William F., Dannemora, assignor to himself and W. Carroll, New York, N. Y. Machine for beating up napped hats	275,925	Apr. 17	1373	378	23	1477
Martin, William H., *et al.* (See Martin, James, assignor.)						
Martindale, Elijah B. (See Olsen and Fulton, assignors.)						
Martindale, Elijah B., Indianapolis, Ind. Belt pulley or wheel	286,320	Oct. 9	691	184	25	135
Martindale, Elijah B., Indianapolis, Ind. Pavement and floor	286,321	Oct. 9	692	184	25	136
Martindale, Elijah B., Indianapolis, Ind. Sheave-wheel	286,322	Oct. 9	693	184	25	136
Martindale, Elijah B., Indianapolis, Ind. Sheave-wheel	286,323	Oct. 9	694	185	25	136
Martindale, Elijah B., Indianapolis, Ind. Impervious paving-block	289,289	Nov. 27	1863	517	25	859
Martindale, John R., Buena Vista, Ind. Washing-machine	272,666	Feb. 20	1365	383	23	694
Martindale, Moses A., Georgetown, Colo. Irrigating agricultural and other lands	272,728	Feb. 20	1442	405	23	708
Martine, Alfred H., Fall River, Mass. Apparatus for melting anchor-ice	279,901	June 19	1586	444	23	2409
Martinelli, Martin E. (See Martinelli, Stephen and M. E.)						
Martinelli, Stephen and M. E., Watsonville, Cal. Box-fastener	273,863	Mar. 13	811	219	23	981
Martinez, Rafael, assignor to E. Gutmann and H. Goodman, New York, N. Y. Mat or removable floor-covering	281,540	July 17	1499	412	24	276
Martinez, Rafael, assignor to E. Gutmann and H. Goodman, New York, N. Y. Mat	283,501	Aug. 21	1254	352	24	738
Martinez, Rafael, assignor to E. Gutmann and H. Goodman, New York, N. Y. Mat	284,457	Sept. 4	362	100	24	965
Martinez, Rafael, assignor to E. Gutmann and H. Goodman, New York, N. Y. Mat	284,567	Sept. 4	498	140	24	988
Martius, Carl, Berlin, Germany. Producing a basic coloring-matter from xylidine. (Reissue)	10,353	July 10	1101	.....	24	201
Marty, Jean A. H., Villefranche, France. Animal-trap	290,082	Dec. 11	880	250	25	1049
Martyn, William H., Jr., Manchester, N. H. Clothes pole and line holder	289,290	Nov. 27	1864	518	25	859
Marvil, Joshua H., Laurel, Del. Basket	273,864	Mar. 13	812	220	23	981
Marvin, George A., Seneca, Kans. Calf-weaner	280,642	July 3	367	102	24	65
Marvin, Russell, *et al.* (See Baker, William T., assignor.)						
Marvin, William, assignor of one-half to G. Richardson, Petoskey, Mich. Bake-oven	286,142	Oct. 2	444	120	25	82
Marzan, Manuel, Havana, Cuba. Construction of ships	274,624	Mar. 27	1790	498	23	1165
Marx, George. (See Geary, John, assignor.)						
Maschmeyer, Charles, Bridgeport, Conn., assignor to Craighead & Elwell Manufacturing Company, New York, N. Y. Pulley-block	271,252	Jan. 30	1754	507	23	357
Mascotte Stove Company. (See Meysenburg, Edward A., assignor.)						
Maseth, John A., *et al.* (See Maseth, Joseph, assignor.)						
Maseth, Joseph, assignor of one-half to J. A. and J. L. Maseth, Detroit, Mich. Machine for rolling coupling-pins	286,324	Oct. 9	694	185	25	136
Maseth, Joseph L., *et al.* (See Maseth, Joseph, assignor.)						
Mason, Charles E., Columbus, Ohio. Micrometer regulator for watches	288,086	Nov. 6	366	102	25	570
Mason, Charles E., Columbus, Ohio. Reversible center-pinion for time-keepers	288,087	Nov. 6	367	102	25	570
Mason, Charles E., Columbus, Ohio. Stem winding and setting device for watches	290,903	Dec. 25	1947	537	25	1251
Mason, Charles T., Jr., Sumter, S. C. Cotton-harvester	286,032	Oct. 2	313	88	25	58
Mason & Co., Perry. (See White, Charles D., assignor.)						
Mason, Edward, Detroit, Mich. Tobacco-receptacle	274,954	Apr. 3	90	25	23	1241
Mason, Edward R., Des Moines, Iowa. Adjustable and detachable arbor for grindstones	282,546	Aug. 7	84	24	24	514
Mason, Edwin S., Attleborough Falls, Mass. Sleeve-button	281,093	July 10	926	258	24	171
Mason, Freeman C., Ransom, Mich. Apparatus for measuring and weighing grain	272,729	Feb. 20	1443	405	23	708
Mason, George L. (See Richardson, Edward M., assignor.)						
Mason & Hamlin Organ and Piano Company. (See Mabille, Philippe, assignor.)						
Mason & Hamlin Organ and Piano Company. (See Richardson, John P., assignor.)						
Mason, Henry W. (See Sargent, Joseph F., assignor.)						
Mason, James, Eynsham Hall, Whitney, county of Oxford, England. Furnace for burning pyrites	274,453	Mar. 20	1564	428	23	1119
Mason, James P., assignor of one-half to F. T. Weed, Philadelphia, Pa. Machine for making washers	276,848	May 1	402	106 107	23	1697
Mason, Joshua, Paterson, N. J. Method of and apparatus for heating cars	271,885	Feb. 6	358	99	23	503
Mason, Lowell C., Providence, R. I. Crank for sewing-machines	283,001	Aug. 14	630	178	24	619
Mason, Lowell C., assignor to S. W. Baker Manufacturing Company, Providence, R. I. Temple for looms for weaving tubular fabrics	283,127	Aug. 14	779	219	24	645
Mason, Malinda C., Chicago, Ill. Dish-washer	272,894	Feb. 27	1679	469	23	756
Mason, Oliver J., Tallmadge, Ohio. Machine for making clay smoking-pipes	272,966	Feb. 27	1757	491	23	768
Mason, Robert E., W. Smalley, and G. Schofield, assignors to J. A. McDowell, Newark, N. J. Hat and making the same	277,913	May 22	1709	466	23	1940
Mason, Samuel O., Snow Hill, N. C. Cultivator	282,341	July 31	2544	697	24	464
Mason, Volney W., Providence, R. I. Safety apparatus for elevator-platforms	276,849	May 1	404	107	23	1697
Mason, William, Puyallup, Wash. Ter. Gate	288,088	Nov. 6	368	102	25	570
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for feeding metallic cartridge-shells into tubes	271,886	Feb. 6	359	100	23	504
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	278,987	June 5	453	124 125	23	2200
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine for fire-arms	285,284	Sept. 18	1377	389	24	1156
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	289,676	Dec. 4	375	107 108	25	953
Mason, William B., Boston, assignor of one-half to W. A. Perry, Brookline, Mass. Governor	274,625	Mar. 27	1791	498	23	1165
Mason, William T. (See Babb, William J., assignor.)						
Mason, William T. (See Babb, William J., assignor.) (Reissue.)						
Massar, Abram A. (See Schilling and Massar.)						
Massari, Silvio E., Columbus, Ohio. Vegetable-slicer	279,782	June 19	1440	403	23	2384
Masseron, Edouard J., Paris, France. Alarm-lock	279,409	June 12	1008	279 280	23	2303
Massey, Albert P., assignor to American Seed Oil Company, Cleveland, Ohio. Apparatus for use in the extraction of oil from seeds, &c	290,083	Dec. 11	881	250	25	1049
Massey, John T., assignor to himself and R. Price, Round Mountain, Tex. Bridle-attachment	278,988	June 5	455	125	23	2201
Massey, William. (See Smalstig and Massey.)						
Massicot, Eugene, New Orleans, La. Attachment for sewing-machines	273,571	Mar. 6	432	116	23	908
Massie, Cumberland, and J. Legan, Long Lane, Mo. Churn	275,059	Apr. 3	232	63	23	1265
Massie, James, Toronto, Ontario, Canada. Machine for making barrels	285,285	Sept. 18	1378	389	24	1156

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mast & Company, P. P. (See Gardiner, Charles O., assignor.)						
Masten, Benjamin F. (See Gore and Eisele, assignors.)						
Masten, Cornelius E., Boston, Mass. Percussion signal-light	277,498	May 15	1220	328	23	1848
Masters, Egbert C., Woodland, Cal. Lock-hinge	283,128	Aug. 14	780	219	24	646
Masters, John and M., Bureau Junction, Ill. Compound meal or flour and process of making the same	286,033	Oct. 2	315	.....	25	58
Masters, Miles. (See Masters, John and M.)						
Masters, William, Kansas City, Mo. Stove or furnace	274,130	Mar. 20	1142	314, 315	23	1045
Matcham, George D., Pittsfield, Ohio. Road-scraper	289,012	Nov. 27	1529	422, 423	25	798
Matchan, George D., Pittsfield, Ohio. Road-scraper	284,647	Sept. 11	596	167, 168	24	1011
Matheny, Timothy G., *et al.* (See Henning, William B., assignor.) (Reissue.)						
Mather, Alonzo C., Chicago, Ill. Stock-car	272,451	Feb. 20	1090	308	23	645
Mather, Alonzo C., Chicago, Ill. Lacing for gloves	281,541	July 17	1500	412	24	276
Mather, Charles A. (See Perry, James L., assignor.)						
Mather, Frank J., Morristown, N. J. Manufacture of paper felting	278,350	May 29	2291	.....	23	2048
Mather, Henry W., Bloomingdale, N. J. Stair-pad	289,920	Dec. 11	687	192	25	1013
Mather, John, Leominster, Mass. Saw-swage	277,589	May 15	1329	357	23	1865
Mather, Richard H., Windsor, Conn. Coupling shunt dynamo-electric machines	286,325	Oct. 9	695	185	25	136
Mather, Thomas W., New Haven, Conn. Station-call for electric circuits	288,089	Nov. 6	369	102, 103	25	571
Mather, Thomas W., assignor to Automatic Safety Boiler and Engine Company, New Haven, Conn. Automatic boiler-feeder	272,730	Feb. 20	1444	405	23	706
Mathes, Michael, assignor of one-half to G. Steup, Jersey City, N. J. Silicated paint	270,450	Jan. 9	757	.....	23	156
Mathes, Philip, Idlewood, Pa. Door-latch	276,255	Apr. 24	1775	494	23	1555
Mathes, Philip, Idlewood, Pa. Sash-fastener	283,502	Aug. 21	1255	352	24	738
Mathesius, Alexander H., Brooklyn, N. Y. Wire-rope grip	287,451	Oct. 30	2113	574	25	410
Mathews, John L., West Troy, N. Y. Wool-oiling machine	288,465	Nov. 13	859	232, 233	25	665
Mathews, William C., Shenandoah, Iowa. Sash-holder	280,643	July 3	367	102	24	65
Mathias, David H., Albany, N. Y. Lunch-case	271,724	Feb. 6	163	45	23	469
Mathiason, P. B. (See Schneible, Joseph, assignor.)						
Mathieson, Henry, Mile End, county of Middlesex, England. Process of and composition for making a drier for ink used for printing on metals	277,499	May 15	1221	.....	23	1849
Mathieson, Henry, Mile End, county of Middlesex, England. Transferring printed designs from paper to sheets of tin, &c	278,030	May 22	1854	.....	23	1964
Mathieu, Jean A., Philadelphia, Pa. Separating and collecting the component substances in animal and vegetable matter	276,256	Apr. 24	1776	494	23	1555
Mathieu, Jean A., Philadelphia, Pa. Furnace for distilling and carbonizing wood, &c	282,342	July 31	2544	697	24	464
Mathieu, Jean A., Philadelphia, Pa. Manufacturing charcoal	288,716	Nov. 20	1167	.....	25	724
Mathis, George W., *et al.* (See Caley, Jeremiah, assignor.)						
Mathis, Sanford, assignor of two-thirds to A. H. and A. R. Mallory, Madison, Ga. Remedy for diphtheria	276,257	Apr. 24	1778	.....	23	1555
Mathisen, Johan, Christiania, Norway. Door-lock	278,719	June 5	58	17, 18	23	2135
Mathison, Louis C., Manhattan, Kans. Wagon running-gear	283,698	Aug. 21	1392	389	24	764
Matlick, Isaac N., Edina, Mo., assignor of one-half to J. N. Prather, San José, Cal. Elevator and conveyer	289,291	Nov. 27	1865	518	25	860
Matlock, David B., Millville, Cal. Truss-bridge	272,568	Feb. 20	1248	348	23	673
Matt, Wilhelm, assignor, by mesne assignments, to Patent Marble Veneer Company, New York, N. Y. Artificial stone for veneers, &c. (Reissue)	10,343	June 19	1588	.....	23	2410
Matt, Wilhelm, assignor to Patent Marble Veneer Company, New York, N. Y. Artificial stone for veneers, molded articles, &c	289,112	Nov. 27	1653	.....	25	819
Matteson, Arthur E., Chicago, Ill. Artificial crown for teeth	280,052	June 26	1782	500	23	2449
Matteson, Rufus S., Providence, R. I. Machine for making ornamental chains	274,955	Apr. 3	91	25, 26	23	1241
Matthews, Ambrose T., *et al.* (See Bennett, John H., assignor.)						
Matthews, Elizabeth, *et al.* (See Albertson, Albert, assignor.)						
Matthews, Elizabeth, *et al.*, executors. (See Matthews, John.)						
Matthews, Frederick, *et al.*, executors. (See Matthews, John.)						
Matthews, George, *et al.* (See Albertson, Albert, assignor.)						
Matthews, George, *et al.*, executors. (See Matthews, John.)						
Matthews, George G. and R., Wichita, Kans. Door-check	281,542	July 17	1502	412	24	276
Matthews, James M., San Antonio, Tex. Insect-destroying apparatus	284,034	Aug. 28	1916	536	24	870
Matthews, John. (See Baynes, John, assignor.)						
Matthews, John, *et al.* (See Albertson, Albert, assignor.)						
Matthews, John, deceased, New York, N. Y., E., G., and F. Matthews, executors. Dispensing-faucet for soda-water and other beverages	289,547	Dec. 4	221	62	25	925
Matthews, John, deceased, E., G., and F. Matthews, executors. New York, N. Y. Soda-water apparatus	289,777	Dec. 4	501	139	25	973
Matthews, Rodolph. (See Matthews, George G. and R.)						
Matthiessen, Franz O., Irvington, N. Y. Automatically cooling hot journals	270,236	Jan. 9	486	144	23	105
Matthiessen, Franz O., Irvington, N. Y. Apparatus for keeping cool the shaft-bearings in mills	270,237	Jan. 9	488	144	23	105
Matthiessen, Franz O., Irvington, N. Y. Adjustable dam for starch-troughs	273,572	Mar. 6	433	116	23	906
Matthiessen & Wiechers Sugar Refining Company, F. O. (See Niese and Dinkel, assignors.)						
Mattice, Asa, Cleveland, Ohio. Device for constructing brick floors and arches	271,346	Jan. 30	1879	544	23	378
Mattice, Christopher, Delhi, N. Y. Gage for cutting car-braces	284,035	Aug. 28	1917	536	24	870
Mattice, Christopher, Delhi, N. Y. Stove	287,765	Oct. 30	2544	684	25	492
Matton, Fredrik V., Philadelphia, Pa. Valve-gear	285,286	Sept. 18	1379	390	24	1157
Mattson, Morris, New York, N. Y. Medical-powder injector	280,202	June 26	1945	546	23	2479
Mattson, William H., *et al.* (See Hope, Charles, assignor.)						
Mattson, William H. (See Werts, William, assignor.)						
Matzeliger, Jan E., assignor of two-thirds to M. S. Nichols and C. H. Delnow, Lynn, Mass. Lasting-machine	274,207	Mar. 20	1230	338, 339, 340	23	1061
Maul, William M., *et al.* (See Pfautz, Daniel M., assignor.)						
Maule, Francis I., Philadelphia, Pa. Handle for steam-valves	271,887	Feb. 6	362	100	23	504
Maulick, Gottlieb, Beaver Falls, Pa. Car-coupling	281,094	July 10	927	259	24	171
Maurer, Jacob, *et al.* (See Bastam, Fredric, assignor.)						
Maus, Clement A., Indianapolis, Ind. Apparatus for and process of cooling and condensing the foam which forms on the surface of fermenting liquor	280,385	July 3	55	15	24	12
Maus, Frank A., Indianapolis, Ind. Two-wheeled vehicle	281,896	July 24	1971	539	24	362

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Maus, Mathias A., Indianapolis, Ind. Lock-nut for pipe-couplings	288,250	Nov. 13	571	158	25	616
Mauser, Paul, Oberndorf-on-the-Neckar, Würtemberg, Germany. Magazine fire-arm	270,599	Jan. 16	955	276 277	23	204
Mauser, Paul, Oberndorf-on-the-Neckar, Würtemburg, Germany. Magazine fire-arm	289,113	Nov. 27	1654	459	25	819
Mautner, Ludwig. (See Mayrhofer, Charles A., assignor.)						
Mautner, Ludwig, Vienna, Austria-Hungary. Pneumatic and electric clock system	271,347	Jan. 30	1880	545 546 547	23	378
Mautner, Ludwig, Vienna, Austria-Hungary. Apparatus for drying and roasting malt, &c	275,097	Apr. 3	286	78, 79	23	1275
Mawhinney, Samuel, Worcester, Mass. Metal last and jack for boots or shoes	276,059	Apr. 17	1532	421	23	1505
Maxfield, Charles A., New York, N. Y. Coating or waterproofing paper	278,443	May 29	2405	.....	23	2069
Maxfield, William H., Maysville, Ind. Combined register and ventilator	290,084	Dec. 11	883	251	25	1049
Maxfield, William P., Philadelphia, Pa. Card-cylinder and making the same	273,573	Mar. 6	434	117	23	909
Maxim, Hiram S., Brooklyn, N. Y. Gas-machine	275,060	Apr. 3	233	63, 64	23	1266
Maxim, Hiram S., Paris, France. Gas-engine	273,750	Mar. 13	656	175 176 177	23	954
Maxim, Hiram S., Paris, France. Manufacturing carbons for incandescent lamps	277,846	May 15	1627	443	23	1919
Maxim, Hiram S., Paris, France. Gas-engine	279,657	June 19	1300	361 362	23	2359
Maxim, Hiram S., Brooklyn, assignor to United States Electric Lighting Company, New York, N. Y. Electric lamp	283,629	Aug. 21	1393	390	24	765
Maxim, Samuel, Wayne, Me. Oil-lamp	275,682	Apr. 10	1065	290	23	1416
Maxim, Samuel, Wayne, Me. Oil-lamp	284,876	Sept. 11	880	247	24	1061
Maxson, John F., Portville, N. Y. Gas-regulator	286,326	Oct. 9	696	186	25	136
Maxwell, Frank, Cedar Vale, Kans. Lock-nut	289,430	Dec. 4	70	20	25	899
Maxwell, George S., assignor of one-half to C. K. Caron, Louisville, Ky. Electric railway-signal	290,338	Dec. 18	1200	336	25	1114
Maxwell, John, and H. F. Quint; said Maxwell assignor to Chappell, Chase, Maxwell and Company, Oneida, N. Y. Burial-casket	283,002	Aug. 14	631	178	24	619
Maxwell, Robert C. (See Walker, James, assignor.)						
Maxwell, William H., and J. M. Stearns, Jr., Brooklyn, N. Y. Method of and appliance for controlling and preventing fires in buildings	286,621	Oct. 16	1062	286	25	209
May, Harvey B., Oregon City, Oreg. Tire-tightener	289,114	Nov. 27	1655	459	25	820
May, James H. (See Hubbard, Wales, assignor.)						
May, John L., Martinsburg, Pa. Device for holding and forming chair-frames	274,803	Mar. 27	1999	556	23	1203
May, Joseph B., Lexington, Ky. Gate	287,947	Nov. 6	200	58	25	542
May, Philip M., Washington, D. C. File-holder	282,742	Aug. 7	397	93	24	557
May, S. Elwood. (See Silver, Thomas, assignor.)						
May, Samuel, Toronto, Ontario, Canada. Billiard-cushion	283,129	Aug. 14	761	219	24	646
May, William. (See Cunningham, Houssart, and May.)						
Mayall, Thomas J., Reading, Mass. Ornamenting rubber veneer and enamel	286,034	Oct. 2	316	.....	25	59
Mayall, Thomas J., Reading, Mass. Insulation of wires for telegraph-lines	286,035	Oct. 2	316	88	25	59
Mayall, Thomas J., Reading, Mass. Insulated electric conductor	286,036	Oct. 2	317	89	25	59
Mayall, Thomas J., Reading, Mass. Elastic fabric for goring	286,037	Oct. 2	318	89	25	59
Mayall, Thomas J., Reading, Mass. Machine for applying cement and flock to cloth	286,038	Oct. 2	319	89	25	59
Mayall, Thomas J., Reading, assignor to Brunswick Antimony Company, Boston, Mass. Water-proof cloth	286,039	Oct. 2	320	.....	25	59
Mayall, Thomas J., Reading, assignor to Brunswick Antimony Company, Boston, Mass. Fluid cement	286,040	Oct. 2	321	.....	25	59
Mayall, Thomas J., Reading, assignor to Brunswick Antimony Company, Boston, Mass. Syringe eduction-tube	286,041	Oct. 2	322	90	25	59
Mayall, Thomas J., Reading, assignor to Brunswick Antimony Company, Boston, Mass. Car-spring	286,042	Oct. 2	323	90	25	59
Mayall, Thomas J., Reading, assignor to Brunswick Antimony Company, Boston, Mass. Floor-covering	286,043	Oct. 2	324	90	25	60
Maybeck, Bernard J. (See Paulding and Maybeck.)						
Maybee, M. Addie, Syracuse, N. Y. Plaiting-machine	273,296	Mar. 6	68	20	23	846
Mayberry, Victor A., La Grange, Mo. Device for sharpening plow-colters	285,287	Sept. 18	1381	390	24	1157
Maybury, William, assignor to himself, J. Greenwood, and T. Wolstenholme, Garnersville, N. Y. Steam-drying cylinder	284,877	Sept. 11	881	247	24	1061
Mayer, Charles. (See Berens, William E., assignor.)						
Mayer, David E, New York, N. Y. Shield for neck-wear	272,731	Feb. 20	1447	405	23	708
Mayer, Esrom, *et al.* (See Tobias, Cyrus, assignor.)						
Mayer, Ferdinand, assignor of one-half to W. F. Cox, Union Hill, N. J. Self-closing spigot	272,739	Feb. 20	1447	406	23	708
Mayer, Georges. (See Bollack and Mayer.)						
Mayer, John L., and J. Sutter, McLean County, Ill. Automatic grain-measure	274,626	Mar. 27	1793	498	23	1165
Mayer, John M., Rondout, N. Y. Buckboard-wagon	290,445	Dec. 18	1349	373	25	1139
Mayer, Louis G., Cincinnati, Ohio. Vehicle	271,092	Jan. 23	1566	451	23	317
Mayer, Solomon, *et al.* (See Knoepflin, John B., assignor.)						
Mayer, Theodore J., *et al.* (See Simpson, Andrew J., assignor.)						
Mayers, Edwin D., Mullin's Depot, S. C. Seeder and fertilizer-distributer	289,869	Jan. 2	56	17	23	13
Mayes, Thomas, Albany, N. Y. Wave-power apparatus	273,117	Feb. 27	1942	545	23	801
Mayes, Thomas A., Phillipsburg, Pa. Mining-tool	279,962	June 26	1668	469	23	2429
Mayhew, Joseph, and E. D. Payne, Cincinnati, Ohio. Hoisting-machine	277,147	May 8	808	213	23	1771
Maynadier, Gustavus B., assignor of one-half to W. H. Cilley, Boston, Mass. Grinding-mill	284,648	Sept. 11	597	168	24	1011
Maynadier, Gustavus B., assignor of one-half to W. H. Cilley, Boston, Mass. Grinding-mill	286,838	Oct. 16	1334	364	25	257
Maynard, Henry O., assignor to D. B. Fisk & Co., Chicago, Ill. Device for blocking hats	274,012	Mar. 13	984	270	23	1011
Maynard, William H. (See Steelman and Maynard.)						
Maynz, Edward, Boston, Mass. Fastening for belts	281,708	July 24	1724	468	24	318
Maynz, Edward, Boston, Mass. Manufacture of boots and shoes	281,709	July 24	1725	468	24	318
Mayo, Arthur C. (See Logan, James, assignor.)						
Mayo, Israel C., Gloucester, Mass. Cow-tail holder	281,543	July 17	1502	419	24	276
Mayo, Lewis. (See Center, Joshua C., assignor.)						
Mayo, Urial K., Boston, Mass. Anæsthetic mixture	283,800	Aug. 28	1613	.....	24	817
Mayo, Urial K., Boston, Mass. Composition for preparing a heating and illuminating gas	288,090	Nov. 6	372	.....	25	571
Mayo, William H., St. Joseph, Mich. Knitting-machine	274,208	Mar. 20	1238	340 341	23	1062
Mayrhofer, Carl A., assignor to himself and W. Otto, Paris, France. Electric pneumatic clock system	278,159	May 22	2006	552 553	23	1991
Mayrhofer, Charles A., assignor to L. Mautner, Vienna, Austria-Hungary. Hydropneumatic-clock system	271,888	Feb. 6	362	100 101	23	504
Mayser, Charles. (See Wullen and Mayser.)						
McAdam, Neil L., San Francisco, Cal. Vehicle-spring	284,748	Sept. 11	728	204	24	1034

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
McAdams, John, Boston, Mass. Paging-machine	277,310	May 8	996	267	23	1804
McAfee, John F., Pleasant Hill, Mo. Yarn-hanking machine	271,889	Feb. 6	365	101	23	505
McAllister, Charles, Philadelphia, Pa. Spade, fork, &c	275,783	Apr. 10	1195	328	23	1438
McAllister, Charles, Philadelphia, Pa. Spring-buffer for ships	281,280	July 17	1174	324	24	220
McAllister, Guy W., assignor to Chemical Fire Company, Boston, Mass. Apparatus for vaporizing and burning petroleum	272,287	Feb. 13	870	243	23	603
McAllister, Guy W., assignor to himself, E. L. York, and A. L. Waite, Boston, Mass. Steam-generator	287,452	Oct. 30	2115	575	25	410
McAllister, Guy W., assignor to himself, E. L. York, and A. L. Waite, Boston, Mass. Stove	287,453	Oct. 30	2116	575	25	411
McAllister, James A., Shelbyville, Ill. Bushing for millstone-spindles	290,904	Dec. 25	1947	537	25	1251
McAllister, Lewis C., Fort Worth, Tex. Sewing-machine	278,809	June 5	176	51, 52	23	2153
McAllister, William, Lawrence, Mass. Machine for dyeing skeins of yarn	280,644	July 3	368	102	24	65
McAlpin, Joseph, assignor of one-half to R. G. Adair, San Francisco, Cal. Wrench	277,590	May 15	1330	357	23	1865
McAlpine, Adam H., Columbus, Ohio. Brake-beam	289,431	Dec. 4	70	20	25	899
McAnespey, John, Philadelphia, Pa. Soap-holder	280,053	June 26	1783	500	23	2449
McAuley, Frank. (See Headen, Frank, assignor.)						
McAuley, Robert G. (See Appel and McAuley.)						
McAvity, Thomas, Jr., St. John, New Brunswick, Canada. Radiator	281,897	July 24	1972	539	24	362
McBee, Randolph, Washington, D. C. Stench-trap	286,951	Oct. 16	1477	405	25	280
McBrayer, David W., Atlanta, Ill. Cartridge implement	290,594	Dec. 18	1546	425	25	1174
McBride, John G. (See Stapleton, Timothy W., assignor.)						
McBride, John H., Des Moines, Iowa. Riding attachment for plows	284,036	Aug. 28	1917	537	24	870
McCabe, Frank, Providence, R. I. Faucet for drawing liquids	282,206	July 31	2375	653	24	434
McCabe, Frank, Providence, R. I. Steam-whistle	285,639	Sept. 25	1807	514	24	1240
McCabe, Thomas, Ottawa, Ontario, Canada. Stamp-canceling device	274,627	Mar. 27	1794	499	23	1166
McCahey, John, assignor to himself and New England Butt Company, Providence, R. I. Braiding-machine	275,061	Apr. 3	235	64	23	1266
McCahon, James H., *et al.* (See Fulton, John M., assignor.)						
McCaine, Daniel and D., St. Paul, Minn. Treating pyroxyline, &c	286,212	Oct. 9	529	.....	25	108
McCaine, David. (See McCaine, Daniel and D.)						
McCaine, Helen J. (See McCaine, William, assignor.)						
McCaine, William, assignor to H. J. McCaine, St. Paul, Minn. Treating pyroxyline compounds	276,443	Apr. 24	2020	.....	23	1597
McCalip, Hugh, and M. M. Nye, Crawfordsville, Ind. Car-brake	289,921	Dec. 11	668	192	25	1014
McCall, Duncan J., Cameron, Tex. Combined cultivator and cotton and corn planter	278,810	June 5	178	52	23	2153
McCall, George, Philadelphia, Pa. Railway-switch	289,677	Dec. 4	379	{108 {109	25	953
McCall, Joseph W. (See McCall, Robert S. and J. W.)						
McCall, Robert S. and J. W., Kansas City, Mo. Bicycle	280,054	June 26	1783	500	23	2449
McCall, William. San Francisco, Cal. Railway-switch	273,865	Mar. 13	813	220	23	981
McCall, William, and J. V. DeVry, San Francisco, Cal. Cable railway	286,044	Oct. 2	325	90, 91	25	60
McCalla, James W., Galion, Ohio. Clothes-pounder	272,288	Feb. 13	870	243	23	603
McCallip, William W., Columbus, Ohio. Billet-guide for rolling-mills	271,725	Feb. 6	165	45	23	469
McCallip, William W., Columbus, Ohio. Continuous rolling-mill	277,044	May 8	669	174	23	1746
McCallum, De Witt C., Minneapolis, Minn. Car-coupling	279,658	June 19	1303	362	23	2360
McCallum, Neil, Philadelphia, Pa., assignor, by mesne assignments, to Leeds Manufacturing Company, Brooklyn, N. Y. Composition to be used as a paint or dye	283,265	Aug. 14	953	.....	24	677
McCandliss, William L., Philadelphia, Pa Fire-escape	290,254	Dec. 18	1088	304	25	1095
McCann, Marion W., Posey, Ind. Cultivator	283,910	Aug. 28	1739	491	24	838
McCarroll, James, New York, N. Y. Application of wire-gauze in the construction of floors, partitions, &c	275,240	Apr. 3	458	127	23	1304
McCarter, John J., Orrwood, Miss. Plow-fender	289,432	Dec. 4	71	20, 21	25	899
McCarthy, Christopher, and J. P. Cumming, assignors of one-third to O. E. Doolittle, Boston, Mass. Covering for walls and roofs, &c	274,354	Mar. 20	1428	391	23	1095
McCarthy, Dennis, and G. R. Davis, St. John, New Brunswick, Canada. Piano	276,258	Apr. 24	1778	495	23	1555
McCarthy, John, Syracuse, N. Y. Mop-wringer	283,911	Aug. 28	1740	491	24	839
McCarthy, John, assignor to N. McCarthy, Syracuse, N. Y. Coffin-handle	272,269	Feb. 13	871	244	23	604
McCarthy, Nora. (See McCarthy, John, assignor.)						
McCarthy, William C., Pittsburg, Pa. Constructing anvils	277,311	May 8	997	268	23	1804
McCarthy, William C., Pittsburg, Pa. Manufacture of anvils	286,459	Oct. 9	848	230	25	165
McCarty, Adelbert D., East Hampton, Conn. Device for making polygonal tubes	271,492	Jan. 30	2077	598	23	415
McCarty, Cornelius M., Romney, W. Va. Calcimining compound	283,130	Aug. 14	781	.....	24	646
McCarty, Cremora F., Boston, Mass. Heating and cooking apparatus	272,290	Feb. 13	872	244	23	604
McCarty, Eugene, Spanish Fort, Tex. Cotton cultivator and chopper	275,062	Apr. 3	236	65	23	1266
McCarty, Robert A., Port Huron, Mich., and C. M. Johnson, assignors of one-third to C. B. Allaire, Peoria, Ill. Cash-carrier	283,912	Aug. 28	1741	492	24	839
McCarty, William F. C. M., Berlin, Germany. Process of and apparatus for decomposing and transforming fatty substances into fatty acids and glycerine	282,547	Aug. 7	85	24	24	515
McCarty, William F. C. M., Berlin, Germany. Apparatus for distilling	283,003	Aug. 14	632	179	24	619
McCarty, William F. C., Berlin, Germany, assignor to A. Marix, St. Petersburg, Russia. Process of and apparatus for treating fats and oils for obtaining fatty acids	283,266	Aug. 14	954	266	24	677
McCaslin, George W., Cleveland, Ohio. Ruffling attachment for sewing-machines	271,890	Feb. 6	366	101	23	505
McCaughey, William, Greenville, Ohio. Fire-escape	270,451	Jan. 9	757	222	23	157
McCauley, Patrick H., Des Moines, Iowa. Apparatus for hoisting and conveying earth from sewer-trenches	280,645	July 3	369	103	24	65
McCauley, Reuben A., Baltimore, Md. Odorless excavating apparatus	285,288	Sept. 18	1381	390	24	1157
McCausland, William J., assignor to W. W. Kurtz, Philadelphia, Pa. Optical attachment for printing-telegraphs	270,907	Jan. 23	1338	386	23	280
McChesney, George G., assignor to Wheeler, Madden & Clemson Manufacturing Company, Middletown, N. Y. Handsaw	270,822	Jan. 16	1231	355	23	256
McCheaney, Joseph B. M., *et al.* (See Hunt, Robert H. H., assignor.)						
McChesney, Martin H., Detroit, Mich. Key-board for musical instruments	281,898	July 24	1972	540	24	362
McChesney, Reuben, Frankfort, N. Y., assignor to Hall & Brown, St. Louis, Mo. Band-saw guide	276,259	Apr. 24	1779	495	23	1555
McClave, William, Scranton, Pa. Grate for stoves and furnaces	272,733	Feb. 20	1448	406	23	708
McClave, William, Scranton, Pa. Steam-blower	281,774	July 24	1815	496	24	335
McCleary, Frank O., Washington, D. C. Scarf	278,444	May 29	2406	656	23	2069
McCleary, John, *et al.* (See Carter and Smith, assignors.)						
McCleary, Samuel, Watervliet Centre, N. Y. Combination numerical instruction puzzle	284,037	Aug. 28	1919	537	24	870
McCleery, James B. (See Page and McCleery.)						
McClellan, John W. (See Romans, John W., assignor.)						
McClellan, William, East Saginaw, Mich. File-cutting machine	276,698	May 1	208	53	23	1600
McClelland, John A., Louisville, Ky. Pyroxyline fabric	271,493	Jan. 30	2077	598	23	415

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
McClelland, John A., Louisville, Ky. Veneering or covering articles with pyroxyline compounds, &c	271,494	Jan. 30	2078	598	23	415
McClelland, John A., Louisville, Ky. Apparatus for veneering or covering articles with pyroxyline, &c	271,495	Jan. 30	2080	599	23	415
McClelland, John A., Louisville, Ky. Mold for veneering or covering articles with pyroxyline or other plastic material	271,496	Jan. 30	2082	599	23	416
McClelland, Stephen. (See Nix and McClelland.)						
McClelland, Stephen, Paris, Tex. Combined chair, cot, and bed	282,343	July 31	2546	698	24	464
McClelland, Thomas, Mattoon, Ill. Revolving harrow	290,781	Dec. 25	1796	496	25	1225
McClellen, J. W., *et al.* (See Collings, William, assignor.)						
McClinchie, Uriah. (See Bulter and McClinchie.)						
McClintick, Jackson, Millbury, Ohio. Ironing-board	275,836	Apr. 17	1271	349	23	1458
McClintock, George W. (See Bray and McClintock.)						
McClintock, George W., Boston, Mass. Sleigh-bell	282,344	July 31	2547	698	24	465
McClintock, J. Y. (See Gibbs and McClintock.)						
McCloskey, John, Boston, Mass. Dynamometer	287,841	Nov. 6	61	18	25	518
McCloskey, Riley, and D. J. Coleman, Walla Walla, Wash. Ter.; said McCloskey assignor to said Coleman. Buckle	280,319	June 26	2095	589	23	2505
McCloskey, Riley, and D. J. Coleman, Walla Walla, Wash. Ter.; said Coleman assignor to said McCloskey. Sash-fastener	282,005	July 24	2095	574	24	383
McClure, Charles Y. (See Pasmore and McClure.)						
McClure, Christopher C., *et al.* (See Armistead, Thomas J., assignor.)						
McClure, James H., Martin's Ferry, Ohio. Button-fastener	281,899	July 24	1974	540	24	383
McClure, Samuel, Brooke township, Lambton county, Ontario, Canada. Grain-sieve	271,497	Jan. 30	2083	599	23	416
McCollum, James C., assignor to H. H. Bixby, Los Angeles, Cal. Horse and cattle fetter	283,503	Aug. 21	1256	352	24	738
McCollum, Matthew C., Espy, assignor to Atlas Manufacturing Company, Danville, Pa. Step-ladder	283,004	Aug. 14	633	179	24	619
McComb, Albert G. and L. H., Columbus Grove, Ohio. Plant-protector	286,251	Nov. 13	571	159	25	616
McComb, Linden H. (See McComb, Albert G. and L. H.)						
McConnell, Daniel M. (See McConnell, Fleming, assignor.)						
McConnell, Fleming, assignor of one-half to D. M. McConnell, Florence, Pa. Hog-nose ringer	275,941	Apr. 3	458	127	23	1304
McConnell, George W., *et al.* (See Corbin, Elijah H., assignor.)						
McConnell, H. H. (See Sage, Eugene, assignor.)						
McConnell, Horace C., Rock Island, Ill. Harness-saddle	273,118	Feb. 27	1942	545	23	802
McConnell, James, and E. H. Taylor, Vassar, Mich. Tongue-support	289,013	Nov. 27	1529	423	25	798
McConnell, James H., and M. W. Chandler, Pultney, N. Y. Basket-handle	281,900	July 24	1975	541	24	363
McConnell, John, Cleveland, Ohio. Oil-stove	276,187	Apr. 24	1692	467, 468	23	1540
McConnell, Joseph T. (See McTighe and McConnell.)						
McConnell, Joseph T, Pittsburg, Pa. Electric-arc lamp	288,896	Nov. 20	1303	357	25	749
McConnell, Mark M., *et al.* (See Corbin, Elijah H., assignor.)						
McConnell, Robert, Omaha, Nebr. Pipe-coupling	290,446	Dec. 18	1350	373	25	1139
McConnell, Robert B., assignor to L. W. Emery, Paducah, Ky. Oil or liquid can	270,085	Jan. 16	1066	306	23	224
McConnell, William, Washington, R. I. Winding-on mechanism for spinning-mules	286,460	Oct. 9	849	230, 231	25	165
McConway, William, Pittsburg, Pa. Car-coupling	281,901	July 24	1976	541	24	363
McCook, Joshua P., assignor of one-third to J. H. Bruce, Richmond, Va. Balanced slide-valve	289,678	Dec. 4	380	109	25	954
McCool, Horace B., Pottsville, Pa. Game apparatus to imitate base-ball	270,963	Jan. 23	1411	406	23	292
McCool, William A., Perrysville, Ohio. Making guide and sign boards	286,045	Oct. 2	327	91	25	60
McCord, Hercules, St. Louis, Mo. Banjo	279,172	June 12	709	193	23	2254
McCord, Hercules, St. Louis, Mo. Banjo	279,173	June 12	709	193	23	2254
McCord, Hercules, St. Louis, Mo. Banjo	283,352	Aug. 14	1065	300	24	699
McCord, John, assignor of one-half to C. P. Heyward, New York, N. Y. Press for stearine, &c	275,996	Apr. 17	1374	378	23	1477
McCormack, James J., Boston, Mass. Spring-bed	270,453	Jan. 9	760	223	23	157
McCormick, Charles W., Cleveland, Ohio. Setting thimbles for hanging grindstones	283,630	Aug. 21	1394	390	24	765
McCormick, David A., assignor of one-half to L. Mann, Detroit, Mich. Electrical annunciator	284,878	Sept. 11	882	247	24	1061
McCormick, George. (See Cavineas and McCormick.)						
McCormick Harvesting Machine Company. (See Baker, William R., assignor.)						
McCormick Harvesting Machine Company. (See Baker and Pridmore, assignors.)						
McCormick Harvesting Machine Company. (See Jenkins, Edward W., assignor.)						
McCormick Harvesting Machine Company. (See Pridmore, Henry E., assignor.)						
McCormick Harvesting Machine Company. (See Tibbets, John F., assignor.)						
McCormick, James S., Kansas City, Mo. Combined can soldering and bottoming machine	270,452	Jan. 9	760	223	23	157
McCosh, Thompson, Burlington, Iowa. Machine for attaching wire barbs to fence-wire	290,595	Dec. 18	1546	426, 427	25	1174
McCourtie, William H., *et al.* (See Wolfe, Horace S., assignor.)						
McCoy, Davenport C., Jacksonville, Ill. Bridle-bit attachment	278,576	May 29	2559	698	23	2096
McCoy, Elijah, assignor to H. C. and C. C. Hodges, Detroit, Mich. Lubricator	270,238	Jan. 9	489	144	23	106
McCoy, George, New Dungeness, Wash. Ter. Sawing-machine	284,038	Aug. 28	1920	537	24	870
McCoy, George B., Stamper's Creek, Ind. Double-action pump	276,614	May 1	85	23	23	1642
McCoy, John A., Fall River, Mass. System of electric lighting	287,040	Oct. 23	1596	439	25	308
McCoy, John A., Fall River, assignor to C. W. Clifford, trustee, New Bedford, Mass. Telephone-circuit	278,351	May 29	2292	626, 627	23	2048
McCoy, Nathan, Manchester, N. H. Composition for roofing, &c	275,507	Apr. 10	842	.....	23	1378
McCracken, George B., Willimantic, Conn. Steam-trap	277,045	May 8	671	175	23	1747
McCracken, George B., and S. Hamer, Willimantic, Conn. Spindle-bearing for spinning-frames	277,312	May 8	998	268	23	1804
McCrary, Ben, Hot Springs, Ark. Station-indicator	274,355	Mar. 20	1430	392	23	1096
McCray, Benjamin F., assignor to himself and A. Nitsche, Hamlin, Kans. Sulky-plow	282,207	July 31	2376	654	24	434
McCready, Andrew, and C. S. Alshouse, Banksville, Pa. Clothes-pounder	289,292	Nov. 27	1866	518	25	860
McCready, William H. (See Temple, Henry, assignor.)						
McCreary, Abram M., Brooklyn, N. Y. Apparatus for steaming petroleum-oil	283,005	Aug. 14	635	179	24	619
McCreary, Albertus. (See Swett and McCreary.)						
McCreary, John. (See Smith and McCreary.)						
McCreary, John, Cohoes, and D. R. Smith, Troy, assignors of one-half to G. H. Billings and E. W. Carter, Cohoes, N. Y. Machine for radial crimping	284,749	Sept. 11	729	204	24	1034
McCreary, John, Cohoes, and D. R. Smith, Troy, assignors of one-half to G. H. Billings and E. W. Carter, Cohoes, N. Y. Machine for radial crimping	285,424	Sept. 25	1554	437, 438	24	1192
McCreedy, George D., Amsterdam, N. Y. Sewing-machine attachment	287,948	Nov. 6	201	58	25	542

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
McCreery, James W., *et al.* (See De Witt, James M., assignor.)						
McCreery, Samuel F., *et al.* (See De Witt, James M., assignor.)						
McCreight, Alexander, Tranquility, Ohio. Scroll-sawing machine	272,070	Feb. 13	604	164	23	556
McCrillis, J. Wilson, Providence, R. I. Furniture-nail	270,239	Jan. 9	490	145	23	106
McCue, Henry, St. Louis, Mo. Kiln for burning brick, tiles, &c	288,466	Nov. 13	861	233	25	665
McCue, James J., Nashville, Tenn. Bridle	275,927	Apr. 17	1376	379	23	1478
McCulloch, John, and W. Cook, assignors to W. Cook & Sons, Glasgow, county of Lanark, Scotland. Railway-wagon	272,967	Feb. 27	1758	491	23	769
McCulloch, Wellington. (See Schureman and McCulloch.)						
McCullough, William, New York, N. Y. Gage	270,091	Jan. 2	303	90	23	62
McCully, John. (See Miles, Hollon F., assignor.)						
McCully, John, assignor to himself and H. F. Miles, Chicago, Ill. Ornamental mantel, ceiling, &c	280,492	July 3	196	52	24	36
McCully, Robert, Philadelphia, Pa. Grinding-mill	274,209	Mar. 20	1243	342	23	1063
McCully, Robert, Philadelphia, Pa. Grinding-mill	274,210	Mar. 20	1244	342, 343	23	1063
McCully, Robert, Philadelphia, Pa. Ore crusher and pulverizer	277,763	May 15	1532	416, 417	23	1903
McCully, Robert, Philadelphia, Pa., assignor of one-fourth to Gunsight Consolidated Silver Mining Company of Arizona. Ore crusher and pulverizer	274,956	Apr. 3	95	26, 27	23	1241
McCully, William, *et al.* (See Lattimer, Francis, assignor.)						
McCurdy, David, Ottawa, Ohio. Purifying water, aging and purifying vinous and spirituous liquors, and purifying the unfermented juices of fruits	285,825	Oct. 2	54	17	25	11
McCurdy, David, assignor to Ottawa Gate Manufacturing Company, Ottawa, Ohio. Hinge	282,004	July 24	2094	574	24	383
McCurdy, James C., San Francisco, Cal. Dry-ore separator	278,160	May 22	2010	553	23	1992
McCurdy, Robert, Kenton, Ohio. Tablet and tablet-cover	283,006	Aug. 14	636	180	24	619
McCurdy, Thomas B., Lancaster, Tex. Door-check	280,055	June 26	1784	500	23	2450
McCurdy, Thomas B., Lancaster, Tex. Weather-strip	282,208	July 31	2377	654	24	434
McCurry, Jefferson A., Whitesville, Ga. Leveling-instrument	280,203	June 26	1946	547	23	2479
McDaniel, John F., Letart, W. Va. Singletree	279,410	June 12	1009	280	23	2303
McDaniel, Joseph, Jackson Centre, Ohio. Corn-planter	272,291	Feb. 13	873	244	23	604
McDaniel, Robert M., Lafayette, Ind. Boring-machine	290,339	Dec. 18	1202	337	25	1114
McDaniel, William H., and U. Perrine, Wichita, Kans. Vehicle-spring	279,783	June 19	1440	403	23	2384
McDaniel, William H., U. Perrine, and F. S. Peck, Wichita, Kans. Vehicle-spring	280,204	June 26	1946	547	23	2479
McDermott, Charles J., Sandy Hook, Conn. Pantaloon-protector	271,891	Feb. 6	367	101	23	505
McDermott, James H. (See Gleason, John M., assignor.)						
McDermott, James H. (See Ward, John H., assignor.)						
McDermott, John, assignor to G. E. Harpham, San Francisco, Cal. Shell-extractor	290,255	Dec. 18	1090	304	25	1095
McDermott, Joseph A., assignor of three-eighths to J. H. Caswell, Lynn, Mass. Station-indicator	281,383	July 17	1300	360	24	243
McDermott, Patrick, Memphis, Tenn. Cotton-seed huller	281,902	July 24	1978	542	24	363
McDonald, Alexander, Cambridge, Mass., assignor to McDonald Stone Cutting Machine Company, Nashua, N. H. Machinery for supporting and revolving a disk-shaped cutter	276,260	Apr. 24	1782	495	23	1556
McDonald, Alexander, Cambridge, Mass., assignor to McDonald Stone Cutting Machine Company, Nashua, N. H. Machine for dressing stone	277,914	May 22	1709	467	23	1940
McDonald, Alexander, Cambridge, Mass., assignor to McDonald Stone Cutting Machine Company, Nashua, N. H. Cutter-holder for stone-dressing machines	278,352	May 29	2293	627	23	2049
McDonald, Alexander E., assignor to W. P. Johnston, Brooklyn, N. Y. Infant's seat	289,115	Nov. 27	1656	459, 460	25	890
McDonald, Augustin T., Shelton, Conn. Saw-guard	287,949	Nov. 6	202	58	25	542
McDonald, Dennis, Niagara Falls, N. Y. Wash-boiler	273,866	Mar. 13	814	220	23	981
McDonald, Fred C., St. Louis, Mo. Station-indicator	285,289	Sept. 18	1382	391	24	1157
McDonald, Gilbert, assignor to himself and J. A. Lucas, Georgetown, N. Mex. Ter. Compound metal-working machine	288,827	Nov. 20	1306	358	25	750
McDonald, Hugh, assignor to Williams Manufacturing Company, Plattsburg, N. Y. Sewing-machine	270,192	Jan. 2	428	124	23	87
McDonald, Hugh, Plattsburg, N. Y., assignor of one-half to D. Graham, Montreal, Canada. Caster	282,099	July 31	2223	611	24	410
McDonald, John. (See Wilton, Benjamin A., assignor.)						
McDonald, John D., Woburn, Mass. Machine for treating leather	270,964	Jan. 23	1412	406	23	292
McDonald, John D. and W. Beggs, Woburn, Mass. Leather-splitting machine	279,659	June 19	1304	363	23	2360
McDonald, Joseph H., New York, N. Y. Machine for mixing and working oleomargarine	270,454	Jan. 9	761	223	23	158
McDonald, M. Charles, Minersville, Pa. Device for increasing the speed of ships, &c	280,646	July 3	370	103	24	65
McDonald, Michael E., Scranton, Pa. Car-coupling	290,622	Oct. 16	1063	286	25	209
McDonald, Peter, Yonkers, N. Y. Cutter and holder for fruits and flowers	289,116	Nov. 27	1658	460	25	890
McDonald, Ranald T., Fort Wayne, Ind. Overalls	280,056	June 26	1785	501	23	2450
McDonald, Samuel, Braddock, Pa. Manufacturing Bessemer steel	287,842	Nov. 6	62	.....	25	518
McDonald Stone Cutting Machine Company. (See McDonald, Alexander, assignor.)						
McDonald, Theodore A., New Albany, Ind. Gage for rip-saws	272,734	Feb. 20	1449	406	23	709
McDonald, Thomas A. (See Henderson and McDonald.)						
McDonel, Daniel A., assignor to himself and E. W. Porter, Detroit, Mich. Brush	273,867	Mar. 13	815	220	23	982
McDonnell, William C., and A. L. Anderson, Montello, Wis. Millstone-pick	280,647	July 3	371	103	24	65
McDonough, Thomas, Montclair, N. J. Hoist or elevator	278,445	May 29	2408	656	23	2069
McDonough, Thomas, Montclair, N. J. Hot-air engine	278,446	May 29	2408	656, 657	23	2069
McDorman, John C., Gilbert's Mills, Ohio. Harrow	281,095	July 10	928	259	24	171
McDougald, Dougald, near Fayetteville, N. C. Rein-holder for vehicles	287,556	Oct. 30	2246	609	25	437
McDougall, Harry C. (See Baldwin, James S., assignor.)						
McDougall, Hugh, New York, N. Y. Manufacture of thimbles	274,356	Mar. 20	1430	392	23	1096
McDougall, James, New York, N. Y. Attachment for plows	280,493	July 3	197	52	24	36
McDougall, Samuel T., Brooklyn, N. Y. Oil-reservoir for oil-stoves, &c	287,557	Oct. 30	2247	610	25	437
McDougall, Samuel T., Brooklyn, N. Y. Apparatus for concentrating sulphuric acid	289,293	Nov. 27	1867	518	25	890
McDougall, Samuel T., Brooklyn, assignor of one-half to W. A. Barnes, New York, N. Y. Hollow corkscrew	285,143	Sept. 18	1222	343	24	1127
McDowell, Frank D., Clinton, Iowa. Carriage-seat	274,131	Mar. 20	1143	315	23	1045
McDowell, Frederick H., New York, N. Y. Ore-crusher	286,723	Oct. 16	1191	321	25	231
McDowell, Irvin. (See McDowell, Malcolm, assignor.)						
McDowell, James A. (See Mason, Smalley, and Schofield, assignors.)						
McDowell, Malcolm, Chicago, Ill. Blank for wheel-spokes, harrow-teeth, and similar articles	283,410	Aug. 21	1138	322	24	718
McDowell, Malcolm, Chicago, Ill., assignor of one-half to I. McDowell, San Francisco, Cal. Device for fastening the teeth of harrows and hay-rakes	286,213	Oct. 9	530	145	25	108

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
McDowell, Samuel J., assignor of one-half to J. Knight, Boston, Mass. Portable oven	275,784	Apr. 10	1196	328	23	1438
McDowell, William L., Lower Merion, Pa. Ornament for stoves	280,205	June 26	1947	547	23	2479
McDowell, William L., Lower Merion, Pa. Stove plate and frame fastener	281,096	July 10	929	259	24	171
McElhaney, Samuel, Polo, Ill. Buggy-bow spring	272,071	Feb. 13	606	164	23	557
McElheny, William C. (See Sutch and McElheny.)						
McElhose, Thomas S., Paterson, N. J. Stop-motion for machines for doubling silk and other fibers	289,117	Nov. 27	1659	460	25	890
McElroy, James H., Middletown, N. Y. Fire-escape	271,498	Jan. 30	2084	599	23	416
McElroy, Patrick J., East Cambridge, Mass. Syringe	288,828	Nov. 20	1308	358	25	750
McElroy, William, Brooklyn, N. Y. Feed-water injector	275,063	Apr. 3	237	65, 66	23	1266
McElroy, William J., Pittsburg, Pa. Electric switch-board	278,353	May 29	2294	627	23	2049
McElroy, William J., Pittsburg, Pa., assignor to Standard Cable Company, of New Jersey. Testing lead-covered cables	284,137	Aug. 28	2046	568, 569	24	892
McElroy, William J., Pittsburg, Pa., assignor to Standard Cable Company, of New Jersey. Testing electric cables	284,138	Aug. 28	2049	569	24	892
McElroy, William J., Pittsburg, Pa., assignor to Standard Cable Company, of New Jersey. Testing-box for underground electric cables	284,139	Aug. 28	2051	569	24	892
McElvain, James W. (See Trott and McElvain.)						
McEwen, Joseph C., Lochloosa, Fla. Weather-board gage	280,494	July 3	198	52	24	36
McFadden, Patrick, Philadelphia, Pa. Harness-terret	282,743	Aug. 7	328	93	24	557
McFadden, Patrick, Philadelphia, Pa. Harness-saddle	284,039	Aug. 28	1921	537	24	871
McFarland, Andrew, *et al.* (See Wohnlich, Louis J., assignor.)						
McFarland, Horace E., *et al.* (See House, Alfred B., assignor.)						
McFarland, James G., *et al.* (See Hanson, Freeman, assignor.)						
McFarland, Samuel G., assignor to J. L. Mott Iron Works, New York, N. Y. Water-closet	287,558	Oct. 30	2248	610	25	438
McFarland, William, *et al.* (See Wohnlich, Louis J., assignor.)						
McFarlane, Hugh, Chicago, Ill. Hound-socket for vehicles	277,313	May 8	999	268	23	1804
McFarlen, William M., Garrison, Iowa. Washing-machine	272,292	Feb. 13	873	244	23	604
McGaffey, Henry H. (See Marshall, William S., assignor.)						
McGaffey, Ives W., Chicago, Ill. Hose-reel	286,046	Oct. 2	328	91	25	60
McGaffey, Ives W., assignor to E. B. Preston, Chicago, Ill. Railway-velocipede	286,623	Oct. 16	1064	286	25	209
McGahy, Alexander R., Brooklyn, N. Y. Machine for scouring and polishing stone	274,509	Mar. 27	1655	460	23	1141
McGann, Thomas F., Boston, Mass. Cash-carrier	283,007	Aug. 14	636	180	24	620
McGaughey, Samuel N., Minneapolis, Minn. Combined cane and camp-chair	280,843	July 10	631	177	24	117
McGhee, William T., assignor of one-half to F. P. Snyder, Chillicothe, Mo. Attachment for corn-planters	290,447	Dec. 18	1351	373	25	1140
McGill, George W., New York, N. Y. Staple-fastener	285,640	Sept. 25	1808	514	24	1240
McGill, George W., New York, N. Y. Pin and stud	285,641	Sept. 25	1808	515	24	1240
McGill, George W., New York, N. Y. Paper-fastener	286,143	Oct. 2	444	121	25	83
McGill, George W., New York, N. Y. Insulated electric conductor	287,766	Oct. 30	2544	684	25	493
McGinley, James, Chicago, Ill. Urinal	276,261	Apr. 24	1783	496	23	1556
McGinley, James, Chicago, Ill. Boiler-cleaner	286,724	Oct. 16	1192	321	25	231
McGinley, James, Chicago, Ill. Water-back and boiler-fitting for ranges	289,847	Dec. 11	599	166	25	998
McGinley, James, Chicago, Ill. Flushing-valve	290,256	Dec. 18	1091	304	25	1095
McGinnis, William T., New York, N. Y. Dumb-bell	272,144	Feb. 13	698	191	23	573
McGinnis, William T., New York, N. Y. Amalgamator	274,211	Mar. 20	1247	343	23	1064
McGinnis, William T., New York, N. Y. Electrical exercising apparatus	281,097	July 10	929	259	24	171
McGirr, Hugh G., Auburn, N. Y. Axle-box	272,293	Feb. 13	874	245	23	604
McGladery, David, Havilandsville, Ky. Rein-holder	279,411	June 12	1010	280	23	2303
McGough, Frank. (See Sheridan, Cornelius A., assignor.)						
McGovern, Bernard, Bridgeport, assignor of one-half to E. S. Smith, Waterbury, Conn. Thill-coupling	290,782	Dec. 25	1797	496	25	1225
McGovern, Bernard, Bridgeport, assignor of one-half to E. S. Smith, Waterbury, Conn. Thill-coupling	290,783	Dec. 25	1798	496	25	1225
McGowan, Frank L. (See Wood, John H., assignor.)						
McGowan, Guy. (See Brown and McGowan.)						
McGrann, Bernard. (See Solis, John H., assignor.)						
McGraw, John S., Richmond, Ind. Car-coupling	272,294	Feb. 13	875	245	23	605
McGregor, Rob Roy, assignor of three-fourths to L. Hill, Jr., J. Townsend, and C. B. Simonton, Covington, Tenn. Faucet	270,550	Jan. 9	890	258	23	184
McGregor, William, administrator. (See Flenniken, Theodore M.)						
McGrory, Thomas, assignor of one-half to H. Banes, Philadelphia, Pa. Apparatus for ventilating, heating, and cooling buildings	284,140	Aug. 28	2053	569	24	892
McGuiggan, Anthony, Delavan, Minn. Implement for handling coils of wire	288,467	Nov. 13	862	233	25	665
McGuinness, John P., Providence, R. I. Saddle for top-rolls of spinning-machines	284,040	Aug. 28	1922	538	24	871
McGuire, John, Milwaukee, Wis. Water-closet valve	274,628	Mar. 27	1795	499	23	1166
McGuire, Michael, Baldwinsville, N. Y. Stove-pipe thimble	281,710	July 24	1726	469	24	319
McGuire, Patrick W., South Bend, Ind. Felly-plate	285,290	Sept. 18	1384	391	24	1158
McHale, Edward, *et al.* (See Dougherty, Michael J., assignor.)						
McHugh, Samuel S. (See Rigby and McHugh.)						
McHugh, Timothy, Cambridge, assignor to himself and Ward & Curley, Boston, Mass. Water-closet valve	280,648	July 3	372	104	24	66
McIlhenny, George A., Washington, D. C. Hydraulic main for gas-works	282,345	July 31	2548	698, 699	24	465
McIlhenny, George A., Washington, D. C. Gas-retort furnace	284,458	Sept. 4	363	100, 101	24	965
McIlravy, Alexander, Martin's Ferry, Ohio. Churn-motor	285,291	Sept. 18	1385	391	24	1158
McIlroy, Thomas, Brooklyn, N. Y. Printing-press	285,826	Oct. 2	55	17	25	12
McIlvain & Spiegel. (See Spiegel, William, assignor.)						
McIlwain, Henry C., Null's Mills, Ind. Clothes-washer	284,459	Sept. 4	366	101	24	966
McIntire, Charles. (See Lockwood and McIntire.)						
McIntire, Charles, Newark, N. J. Electric wire	278,811	June 5	180	52	23	2153
McIntire, John T., Purdy, Tenn. Cultivator	278,577	May 29	2559	698	23	2096
McIntosh, Charles, Jersey City, N. J. Fire-mask	276,699	May 1	209	54	23	1660
McIntosh, Hugh, assignor of one-half to M. McIntosh, Decorah, Iowa. Wire-stretcher	284,969	Sept. 11	990	279	24	1081
McIntosh, James D., Milwaukee, Wis. Cloth-steeper for copying-presses	284,460	Sept. 4	366	102	24	966
McIntosh, Lyman D., Chicago, Ill. Galvanic battery	273,751	Mar. 13	660	177	23	955
McIntosh, Lyman D., Chicago, Ill. Microscope	273,752	Mar. 13	661	177	23	955
McIntosh, Monroe. (See McIntosh, Hugh, assignor.)						
McIntyre, Augustin W., assignor, by mesne assignments, to American Car Wheel Grinding Company, Chicago, Ill. Machine for grinding car-wheels	288,717	Nov. 20	1167	320, 321	25	725
McIntyre, Augustin W., assignor, by mesne assignments, to American Car Wheel Grinding Company, Chicago, Ill. Grinding-machine	288,718	Nov. 20	1172	321, 322	25	725

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
ɣre, Ezra B., Flint, Mich. Tobacco-pail cover	280,844	July 10	632	178	24	117
ɣre, James, Boston, Mass. Folding shipping crate or box	276,850	May 1	405	107, 108	23	1697
ɣre, James, Boston, Mass. Skylight	283,913	Aug. 28	1742	492	24	839
ɣre, James, Boston, assignor of one-half to H. Loring, South Boston, Mass. Hatch-	282,100	July 31	2224	611	24	411
ɣre, John M. (See Cook, George W., assignor.)						
ɣre, John T., and J. G. Parsons, Oshkosh, Wis. Vehicle-spring	276,700	May 1	210	54	23	1660
ɣre, William. (See McLeod, Norman M., assignor.)						
r, James, Houston, Tex. Baling-press	276,615	May 1	85	23, 24	23	1642
r, Alexander, Louisville, Ala. Cotton-press	290,696	Dec. 25	1681	463	25	1203
r & Copeland Lasting Machine Company. (See Brock, Matthias, assignor.)						
r, Gordon. (See Hoadley, John C., assignor.)						
r, Gordon, *et al.*, trustees. (See Goddu, Louis, assignor.)						
r, Gordon, *et al.*, trustees. (See Hopkins, William P., assignor.)						
r, Gordon, Newport, R. I., and J. C. Hoadley, Boston, Mass.; said Hoadley assignor id McKay. Sole-sewing machine	272,735	Feb. 20	1450	407	23	709
r, Jasper N., Grand Junction, Mich. Gate	289,433	Dec. 4	73	21	25	899
r, John L., Franklin, Tenn. Harrow	271,499	Jan. 30	2085	600	23	416
r Metallic Fastening Association. (See Goddu, Louis, assignor.)						
ın, John, New York, N. Y. Drawers	289,679	Dec. 4	381	109	25	954
, Frank L., Plymouth, Pa. Rack for graduated glass measures, &c	278,161	May 22	2012	554	23	1992
, Joseph A., *et al.* (See Gates, George W., assignor.)						
, Leander H. (See Todd and McKee.)						
, Robert M., Greeneville, Tenn. Vibrating propeller	282,656	Aug. 7	217	63, 64	24	537
hen, William N. (See Morlan and McKeehen.)						
n, H. Clay, *et al.* (See Gunckel, Winfield O., assignor.)						
vey, William L., Youngstown, Ohio. Sash-fastener	277,591	May 15	1331	357	23	1866
ına, Dolly A., *et al.* (See McKenna, Robert, assignor.)						
ına, James T., Reading, Pa. Apparatus for washing out locomotive-boilers	273,753	Mar. 13	662	177, 178	23	955
ına, Maud B., *et al.* (See McKenna, Robert, assignor.)						
ına, Robert, assignor to D. A. McKenna, White's Station, Tenn., and M. B. McKenna, sville, Ky. Packing for pistons	277,764	May 15	1535	417	23	1903
ına, Thomas. (See Page and Carley, assignors.)						
ına, William S., Pittsburg, Pa. Device for cooling furnace-fronts	281,098	July 10	930	260	24	171
ına, William S., assignor to Harbison & Walker, Pittsburg, Pa. Fire-brick	274,357	Mar. 20	1431	392	23	1096
ıney, Almeron, Chicago, Ill. Tubular railway-rail	277,765	May 15	1536	418	23	1903
ıney, Almeron, Chicago, Ill. Railway-rail	277,766	May 15	1538	418	23	1903
ızie & Harris, T. B., *et al.* (See Atkinson, Henry C., assignor.)						
ızie, James, Brooklyn, N. Y. Stylographic pen	281,903	July 24	1980	542	24	363
ızie, James W., Dooly County, and J. F. Powell, Macon County, Ga. Combined planter and fertilizer-distributer	286,047	Oct. 2	330	92	25	61
ızie, John H., and J. Keller, Versailles, Ky. Two-wheeled vehicle	278,720	June 5	60	18	23	2135
ıwn, John H., Salem, Ohio. Shaking-grate	289,680	Dec. 4	381	109	25	954
·it, Anna, Chicago, Ill. Button-fastener	269,870	Jan. 2	56	18	23	13
·it, Anna, Chicago, Ill. Button and button-fastener	272,736	Feb. 20	1452	407	23	709
·it, Anna, Chicago, Ill. Separable button	272,968	Feb. 27	1759	492	23	769
bin, John, Lima, Ohio. Neck-yoke coupling	290,257	Dec. 18	1092	304	25	1096
en, Benjamin, Verona Mills, Mich. Bolt-header	290,085	Dec. 11	884	251	25	1050
ı, George W., Martin's Ferry, assignor of one-half to C. W. Thorngate, Freeport, Stave-cutter	276,262	Apr. 24	1784	496	23	1556
ım, Edgar N., assignor to himself and T. V. Whippell, Lathrop, Mo. Churn	279,100	June 5	606	165	23	2227
ley, Andrew, St. Louis, Mo. Stone pavement	278,031	May 22	1855	506	23	1964
ney, Walter S., Binghamton, N. Y. Machine for boring brush-blocks	276,188	Apr. 24	1693	468	23	1540
ney, Walter S., Binghamton, N. Y. Heater and purifier for feed-water	281,775	July 24	1817	496	24	335
niss, Lewis. (See Litterer and McKinniss.)						
niss, Lewis, and F. Litterer, Decatur, Ill. Check-rower for corn-planters	287,454	Oct. 30	2118	575	25	411
non, Daniel, Lowell, Mass. Pedestal for chairs	283,131	Aug. 14	782	220	24	646
non, James D., Portland, Oreg. Combined harrow, roller, &c	289,118	Nov. 27	1661	460, 461	25	821
non, James W., New York, N. Y. Carpet-stretcher	272,295	Feb. 13	876	245	23	605
non, Lachlan E., St. Catharines, Ontario, Canada. Dash-board	279,412	June 12	1010	280	23	2303
rick, David L., Sr. (See Odell and McKitrick.)						
ght, John W., Washington, D. C. Cement and concrete pavement	271,592	Jan. 30	2181	627	23	432
hlan, John, Chicago, Ill. Car-truck	280,386	July 3	57	15, 16	24	13
ı, Robert B., Wheeling, W. Va. Rotary gas scrubber and exhauster	282,346	July 31	2551	699	24	465
e, Samuel B., *et al.* (See Hall, Thomas G., assignor.)						
e, Samuel B., assignor to himself and I. N. Cook, Yonkers, N. Y. Tool for grasp- nd holding	275,341	Apr. 3	604	163	23	1328
ən, Henry. (See McLaren, John and H.)						
en, John and H., Leeds, county of York, England. Traction-engine	289,294	Nov. 27	1868	519	25	860
ghlin, James, Ovid, Mich. Running-gear for vehicles	275,400	Apr. 10	706	188	23	1356
ghlin, James C., Cincinnati, Ohio. Bath-room	275,837	Apr. 17	1271	349	23	1458
ghlin, James C., Cincinnati, Ohio. Water-closet	275,838	Apr. 17	1272	350	23	1458
ghlin, James E., *et al.* (See Bedbury, George W., assignor.)						
ghlin, John, Brooklyn, N. Y. Emery-wheel	278,578	May 29	2560	699	23	2096
ghlin, John, San Rafael, Cal. Thill-coupling	284,750	Sept. 11	731	204	24	1035
ghlin, Sheldon & Co. (See Ames, David J., assignor.)						
n, Christopher W., Newberne, N. C. Electrical switch-board	276,263	Apr. 24	1785	496	23	1556
n, Donald M., Boston, Mass. Bailed hollow ware	273,119	Feb. 27	1943	545	23	802
n, James H. (See Coloney, Myron, assignor.)						
n, James H. (See Smallwood, George T., Jr., assignor.)						
n, James H., Lawrenceburg, Ind. Lock for rocking-chairs, cribs, &c	278,162	May 22	2013	554	23	1992
n, James H., St. Louis, Mo. Cartridge	282,550	Aug. 7	91	27	24	516
n, James H., St. Louis, Mo. Machine-gun	282,551	Aug. 7	92	27, 28	24	516
n, James H., St. Louis, Mo. Magazine-gun	282,552	Aug. 7	94	28	24	516
n, James H., St. Louis, Mo. Machine-gun	282,553	Aug. 7	97	28, 29	24	517
n, James H., St. Louis, Mo. Magazine-gun	282,554	Aug. 7	99	30	24	517
n, James H., St. Louis, Mo. Breech-loading fire-arm	290,905	Dec. 25	1948	538	25	1251
n, James H., St. Louis, Mo., and M. Coloney, New Haven, Conn.; said Coloney as- r to said McLean. Breech-loading composite gun	282,548	Aug. 7	87	24, 25, 26	24	515
n, James H., St. Louis, Mo., and M. Coloney, New Haven, Conn.; said Coloney as- r to said McLean. Machine-gun	282,549	Aug. 7	88	26, 27	24	515

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
McLean, Samuel M., Modesto, Cal. Construction of jails, &c	272,296	Feb. 13	877	245	23	605
McLean, William, Los Angeles, Cal. Laying pavements	289,295	Nov. 27	1870	519	25	861
McLean, William J., Jackson, La. Car-coupling	277,915	May 22	1711	467	23	1940
McLean, William J., Indianapolis, Ind. Steam-actuated valve	285,827	Oct. 2	56	17	25	12
McLellan, Angus, Portland, Oreg. Screw-driver	280,845	July 10	633	178	24	118
McLellan, William W., Newcastle, New Brunswick, Canada. Telegraph and semaphore signal	274,212	Mar. 20	1248	344	23	1064
McLellan, William W., Newcastle, New Brunswick, Canada. Apparatus for operating semaphore-signals	285,497	Sept. 25	1635	460	24	1207
McLendon, Elijah W., Martin's Station, Ala. Whiffletree-iron	271,093	Jan. 23	1567	451	23	317
McLennan, Kenneth, Berkeley, Cal. Grafting-tool	285,910	Oct. 2	167	48	25	33
McLeod Air Railroad Signal Company. (See McLeod, John S., assignor.)						
McLeod, John K., London, Ontario, Canada. Car-coupling	289,681	Dec. 4	382	110	25	954
McLeod, John S., assignor to McLeod Air Railroad Signal Company, Boston, Mass. Automatic railway-signal	275,064	Apr. 3	239	67	23	1267
McLeod, Norman M., assignor of one-half to W. McIntyre, Cambridge, Mass. Vise	277,592	May 15	1332	357	23	1866
McLeran, James B., Oshkosh, Wis. Cord-knotter for grain-binders	270,324	Jan. 9	591	174	23	125
McLewee, William S., New York, N. Y. Lamp	290,340	Dec. 18	1203	337	25	1115
McLewee, William S., New York, N. Y. Hanging lamp	290,341	Dec. 18	1204	337	25	1115
McLewee, William S., New York, assignor to J. J. Nichols, Brooklyn, N. Y. Clock	272,737	Feb. 20	1453	407	23	710
McLewee, William S., New York, assignor to J. J. Nichols, Brooklyn, N. Y. Cigar-lighter	273,868	Mar. 13	816	221	23	982
McLoon, Patrick, Glencoe, Mo. Lime-kiln	285,911	Oct. 2	168	48	25	33
McLoughlin, Edmund, *et al.* (See Campbell, Andrew, assignor.)						
McLoughlin, Edmund, *et al.* (See Sweeney, Morgan J., assignor.)						
McLoughlin, John, *et al.* (See Campbell, Andrew, assignor.)						
McLoughlin, John, *et al.* (See Sweeney, Morgan J., assignor.)						
McMahan, John M., Jersey City, N. J. Dynamo and magneto electric machine	281,904	July 24	1981	542	24	364
McMahon, Michael F. (See Carver, Thomas F., assignor.) (Reissue.)						
McMahon, Patrick J. (See Monteath, Alexander, assignor.)						
McMahon, Timothy G. (See McMahon, William and T. G.)						
McMahon, William, Rahway, N. J. Manufacture of articles from paper	277,593	May 15	1333	358	23	1866
McMahon, William, Rahway, N. J. Manufacture of paper articles	277,594	May 15	1335	358	23	1866
McMahon, William and T. G., Charlestown, N. H., assignors, by mesne assignments, to Underground Electric Cable Company, of New Hampshire. Underground cable	273,869	Mar. 13	816	221	23	982
McMakin, James W., *et al.* (See Hey, James H., assignor.)						
McManus, Henry and R., New York, N. Y., assignors to said Henry McManus, trustee. Ammonia ice-machine and refrigerating apparatus	282,101	July 31	2225	611, 612	24	411
McManus, Henry, assignor to himself, R. McManus, and W. W. Eastman, Brooklyn, N. Y. Bleaching oil	290,784	Dec. 25	1799	497	25	1295
McManus, Robert. (See McManus, Henry and R.)						
McManus, Robert, *et al.* (See McManus, Henry, assignor.)						
McManus, Terrence. (See Hitt, Adrian, assignor.)						
McMaster, Theodore, Sloansville, N. Y. Hanger for eaves-troughs	285,292	Sept. 18	1386	392	24	1158
McMellon, Frederic. (See Simonds, Nathaniel G., assignor.)						
McMellon, Frederick, Boston, assignor of one-third to R. G. Parker, Mansfield, Mass. Steam and air engine	273,376	Mar. 6	182	49	23	865
McMillan, Carrie M., *et al.* (See Simmons, Thomas A., assignor.) (Reissue.)						
McMillan, Duncan, assignor of one-half to W. A. Underwood, Wooster, Ohio. Pad-plate for harness-pads	271,500	Jan. 30	2086	600	23	416
McMillan, James, and W. A. Robertson, Glasgow, county of Lanark, Scotland. Apparatus for feeding fuel to furnaces	289,354	Nov. 27	1942	539, 540	25	874
McMillan, John L., Cambridge, N. Y. Machine for folding the edges of fabrics	278,163	May 22	2014	554	23	1992
McMillen, Carey, New Guilford, Ohio. Farm and other gates	281,544	July 17	1503	413	24	277
McMillen, Charles W., New Castle, Pa. Car-coupling	273,574	Mar. 6	435	117	23	909
McMinn, Theodore J., St. Louis, Mo. Spark-arrester for locomotives	280,206	June 26	1948	547	23	2479
McMullen, John. (See Clothier, Grogan, and McMullen.)						
McMullin, Joseph, Casey, Iowa. Plow for unloading cars	287,698	Oct. 30	2449	659, 660	25	475
McMurray, John, Brooklyn, N. Y. Loom for weaving wire	288,468	Nov. 13	863	233, 234	25	665
McMurray, Robert K., and E. M. Carey, North Sandy, Pa. Mirror	272,297	Feb. 13	878	246	23	605
McMurtrey, James E., I. Williams, and F. E. Okie, Burksville, Ky. Car-coupling	287,455	Oct. 30	2119	575	25	411
McMurtry, George G., Allegheny city, Pa. Punch for nut-machines	274,957	Apr. 3	98	27	23	1242
McMurtry, John, Lexington, Ky. Railway-rail chair	285,642	Sept. 25	1809	515	24	1240
McMurtry, John, and C. M. Johnson, Lexington, Ky. Barrel-rack for storing and aging whisky	271,892	Feb. 6	368	102	23	506
McNab & Harlin Manufacturing Company. (See Yule, John, assignor.)						
McNamara, Timothy E. (See Hauss, McNamara, and Zerbe.)						
McNeal, John, *et al.* (See Gilbert, Frank, assignor.)						
McNeely, David, and J. A. Drake, Princeton, Ind. Railway-gate	287,147	Oct. 23	1729	473	25	334
McNeely, John W., Pittsburg, Pa. Traction-wheel	279,963	June 26	1668	469	23	2429
McNeil, Murdock, East Cambridge, assignor of one-fourth to R. S. Smith, Boston, Mass. Steam-pressure gage	278,164	May 22	2016	555	23	1993
McNeil, William, Chicago, Ill. Waterproofing fabrics	272,569	Feb. 20	1250	.....	23	673
McNeill, Hector. (See Webb, Samuel D., assignor.)						
McOmber, Otis H. (See McOmber, Pliny and O. H.)						
McOmber, Pliny and O. H., Maple Grove, Mich. Fence-post	286,461	Oct. 9	851	231	25	165
McOmber, William G., Rockford, Ill. Mitten and knitting the same	276,444	Apr. 24	2021	560	23	1597
McPeck, John, New York, N. Y. Spring bed-bottom	275,928	Apr. 17	1376	379	23	1478
McPhail, James H., assignor to National Tube Works Company, Boston, Mass. Injector	285,498	Sept. 25	1636	460	24	1207
McPherson, Daniel, Caledonia, N. Y. Grain-binder	279,101	June 5	607	165, 166	23	2297
McPherson, Henry, Troy, assignor to J. A. McPherson, Brunswick, N. Y. Torch	270,600	Jan. 16	957	277	23	204
McPherson, James A. (See McPherson, Henry, assignor.)						
McPherson, John G, Mattoon, Ill. Sand-drier	276,445	Apr. 24	2022	561	23	1597
McPherson, John R., Seabright, N. J. Unloading and handling coal	282,555	Aug. 7	101	30	24	517
McPherson, Walter Y., Owensborough, Ky. Horse-detacher	282,347	July 31	2552	699	24	465
McSherry, Daniel E., and A. G. Myers; said Myers assignor to E. Breneman, Dayton, Ohio. Seeding-machine	280,387	July 3	60	16	24	13
McTammany, Alexander. (See McTammany, John, Jr., assignor.)						
McTammany, John, Jr., Worcester, Mass. Mechanical musical instrument	284,315	Sept. 4	193	54, 55	24	937
McTammany, John, Jr., assignor to A. McTammany, Worcester, Mass. Mechanical musical instrument	273,120	Feb. 27	1944	545, 546	23	802
McTammany, John, Jr., assignor to A. McTammany, Worcester, Mass. Mechanical musical instrument	273,870	Mar. 13	818	221, 222	23	989

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
McTammany, John, Jr., Boston, Mass., assignor to A. McTammany, Akron, Ohio. Automatic musical instrument	290,697	Dec. 25	1682	463, 464	25	1203
McTammany Organette Company. (See Bailey, Jefferson, assignor.)						
McTighe, James J. and T. J., Pittsburg, Pa. Dynamo-electric machine	270,325	Jan. 9	594	175	23	125
McTighe, Thomas J. (See McTighe, James J. and T. J.)						
McTighe, Thomas J., Pittsburg, Pa. Telephone-switch	270,326	Jan. 9	594	175	23	126
McTighe, Thomas J., Pittsburg, Pa. Dynamo-electric machine	288,829	Nov. 20	1308	358, 359	25	750
McTighe, Thomas J., and J. T. McConnell, Pittsburg, Pa. Commutator for dynamo-electric machines	288,830	Nov. 20	1309	359	25	750
McTighe, Thomas J., and J. T. McConnell, Pittsburg, Pa. Electric-arc lamp	288,831	Nov. 20	1310	359	25	750
McTighe, William J., Pittsburg, Pa. Nut-lock	282,348	July 31	2555	699	24	465
McVane, James, Boston, Mass. Stock-rest	286,462	Oct. 9	852	231	25	166
McVaugh, Justice H. (See Highfield, William E., assignor.)						
McVaw, Daniel, Louisville, Ky. Vehicle-spring	284,649	Sept. 11	598	168, 169	24	1011
McVay, James H., South Chicago, Ill. Window-screen	272,145	Feb. 13	699	191	23	573
McVay, Jason, *et al.* (See Anderson, Charles G., assignor.)						
McVey, Owen, and G. W. Albin, Nooga, Ill. Cultivator attachment	274,132	Mar. 20	1144	315	23	1045
McVicker, Emery M., Ripon, Wis. Check-row attachment for corn-planters	285,293	Sept. 18	1386	392	24	1158
McVoy, Edmund C., Easton, Pa. Automatic moistening device	274,804	Mar. 27	2000	556	23	1203
McWilliams, John, Prairie City, Iowa. Pruning implement	279,413	June 12	1011	281	23	2303
McWilliams, John, New Lebanon, N. Y. Can-opener	280,495	July 3	199	52	24	36
Meacham, Milford O., Randolph, Ohio. Recleaning attachment for clover-hullers	276,851	May 1	407	108	23	1697
Mead, Avis, *et al.*, executors. (See Sterns, George N.)						
Mead, Charles H., Jr., San Francisco, Cal. Tail-piece and rein-protector for harness	272,895	Feb. 27	1681	470	23	756
Mead, Edwin D., Shortsville, N. Y. Hoe for grain-drills	280,496	July 3	200	53	24	36
Mead, Edwin D., Shortsville, N. Y. Seeding-machine	289,296	Nov. 27	1871	519	25	861
Mead, Henry B., Stonington, Conn. Type-writing ruler	283,504	Aug. 21	1257	352	24	739
Mead, Henry W. (See Konefes, John H., assignor.)						
Mead, John T., Cleveland, Ohio. Feed-water purifier	276,189	Apr. 24	1696	468	23	1541
Meader, George, Fowler, Ind. Ditching-machine	281,099	July 10	931	260	24	172
Meavy, Albert C., East Somerville, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Safety-valve	274,133	Mar. 20	1144	315	23	1045
Meagher, Edmund D., assignor to Economist Plow Company, South Bend, Ind. Plow	271,893	Feb. 6	369	102	23	506
Meagher, Edmund D., assignor to Economist Plow Company, South Bend, Ind. Plow	275,683	Apr. 10	1066	290	23	1416
Meagher, Edmund D., assignor to Economist Plow Company, South Bend, Ind. Plow	277,314	May 8	1000	268	23	1804
Meagher, Edmund D., assignor to Economist Plow Company, South Bend, Ind. Plow	277,315	May 8	1001	269	23	1805
Meagher, Michelangelo W., New York, N. Y., and J. C. Anderson, Winnipeg, Manitoba, Canada. Nut-lock	278,032	May 22	1856	507	23	1965
Meagley, Ira J. (See Allen, Charles E., assignor.)						
Meaher, Dennis A., *et al.* (See Hanson, Freeman, assignor.)						
Meaker, John W., Philadelphia, Pa. Fastening for bags, pocket-books, &c.	276,852	May 1	409	109	23	1698
Means, Charles J., Boston, Mass. Electric railway-signal	273,377	Mar. 6	183	50	23	865
Mears, Henry B., Philadelphia, Pa. Car-window deflector	272,738	Feb. 20	1453	408	23	710
Mears, Nathan. (See Gage, James L., assignor.)						
Mears, William, Philadelphia, Pa. Stereotyping	285,643	Sept. 25	1810	.....	24	1240
Meason, Charles W., assignor of one-half to J. M. Goff, Walnut, Kans. Nut-lock	273,871	Mar. 13	821	222	23	982
Meatyard, Edward B., Lake Geneva, Wis. Ingot-press	290,448	Dec. 18	1351	374	25	1140
Meatyard, Edward B., Lake Geneva, Wis. Steam-hammer	290,449	Dec. 18	1354	374, 375	25	1140
Meatyard, Edward B., Geneva, Wis. Car-truck. (Reissue)	10,289	Feb. 20	1606	449	23	737
Meatyard, Edward B., Genova, Wis. Railway-car	274,805	Mar. 27	2001	556, 557	23	1203
Meatyard, Edward B., and J. Whyte, Geneva, Wis. Car-wheel	283,631	Aug. 21	1395	391	24	765
Mechem, Oliver H., assignor of one-half to J. E. Sampsel, Connellsville, Pa. Hydraulic jack	273,872	Mar. 13	821	222	23	982
Meckel, Sebastian C., Plymouth, Pa. Carriage-curtain fastener	278,989	June 5	456	125	23	2201
Meckley, Levi D., Glenville, Pa. Gate	272,739	Feb. 20	1455	408	23	710
Medart, Frederick, St. Louis, Mo. Target	271,047	Feb. 6	76	21	23	453
Medart, Martin, Belleville, Ill., assignor of one-third to P. and W. Medart, St. Louis, Mo. Vehicle-spring	278,033	May 22	1857	507	23	1965
Medart, Martin, Belleville, Ill., assignor of one-half to M. V. Medart, St. Louis, Mo. Curtain-fixture	286,624	Oct. 16	1065	286	25	209
Medart, Martin V. (See Medart, Martin, assignor.)						
Medart, Philip, *et al.* (See Medart, Martin, assignor.)						
Medart, Philip, assignor of one-half to W. Medart, St. Louis, Mo. Pulley	287,843	Nov. 6	63	19	25	518
Medart, William. (See Medart, Philip, assignor.)						
Medart, William, *et al.* (See Medart, Martin, assignor.)						
Medden, Edwin, assignor to Silsby Manufacturing Company, Seneca Falls, N. Y. Packing for journals	276,060	Apr. 17	1534	421	23	1505
Medden, Edwin, assignor to Silsby Manufacturing Company, Seneca Falls, N. Y. Safety-valve	290,450	Dec. 18	1360	375	25	1141
Meddick, Sanford C., Ovid, N. Y. Fertilizer-distributing attachment for rollers	284,461	Sept. 4	367	102	24	966
Meder, Joseph, Louisville, Ky. School-slate	283,267	Aug. 14	956	266	24	678
Medgarden, Ole N., New Richland, Minn. Blind for skylights	274,013	Mar. 13	986	270	23	1011
Medley, Granville E., Hopkinsville, Ky. Car-coupling	275,839	Apr. 17	1274	350	23	1459
Mee, Gilbert, assignor of one-half to A. Bodgers, Muskegon, Mich. Log-canter	279,660	June 19	1305	363	23	2360
Meech, Harrison B., Chatham, N. Y. Amalgamator	277,316	May 8	1002	269	23	1805
Meehan, Daniel, New Bedford, Mass. Device for grinding and clearing drills	292,209	July 31	2377	654	24	434
Meehan, David C., *et al.* (See Pederson, Ole, assignor.)						
Meehan, David C., *et al.* (See Pederson, Ole, assignor.) (Reissue.)						
Meehan, David C., Columbus, Ohio. Furniture-caster	285,912	Oct. 2	169	48	25	33
Meehan, Thomas, Brooklyn, N. Y. Car-axle	284,462	Sept. 4	368	102	24	966
Meeker, Bolivar. (See Shreve, Victor, assignor.)						
Meeker, Elliott E. (See Stevens and Meeker.)						
Meeker, Frederick W., New York, N. Y., assignor to Fire Proof Building Company of New Jersey. Manufacture of brick	287,699	Oct. 30	2450	660	25	476
Meeker, George E., Meriden, Conn. Die-press	285,294	Sept. 18	1389	392	24	1158
Meeker, George E., Meriden, Conn. Die-press	287,767	Oct. 30	2545	685	25	493
Meeker, Melvin C., Occidental, Cal. Head-block gear for saw-mills	281,100	July 10	923	261	24	172
Meenan, John D., Ridgway, Pa. Automatic car-brake	288,719	Nov. 20	1182	323	25	726
Meetze, Henry M., Charlotte, N. C. Cotton and hay press	279,174	June 12	710	193, 194	23	2254
Mefford, David M., Toledo, Ohio. Dynamite-shell	279,964	June 26	1670	469	23	2430

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Merriman, Julius E., assignor to Foster, Merriam & Co., Meriden, Conn. Handle	271,095	Jan. 23	1568	451	23	317
Merriman, Lewis, assignor of one-half to J. H. Reigart, Beloit, Wis. Grate	285,425	Sept. 25	1556	438	24	1192
Merritt, Charles T., Hyde Park, Ill. Fire-escape ladder	283,008	Aug. 14	637	180	24	620
Merritt, Daniel. (See Coe and Merritt.)						
Merritt, Daniel H., Marquette, Mich. External friction brake-band for hoisting machinery, &c	282,349	July 31	2555	700	24	465
Merritt, Edward, Brockton, Mass. Nail-driving machine	278,252	May 22	2130	587	23	2012
Merritt, Edward, Brockton, Mass. Nail-driving machine	279,579	June 19	1212	335	23	2343
Merritt, Henry W., Somerville, assignor to W. K. Gillis, Boston, Mass. Churn	281,906	July 24	1983	543	24	364
Merritt, Samuel F., Springfield, Mass. Blanket-pin	277,318	May 8	1004	269	23	1805
Merritt, Washington, Weymouth, Mass. Last	270,240	Jan. 9	492	145	23	106
Merritt, Wiley, assignor to himself and J. C. Camp, Covington, Ga. Rib for cotton-gins	280,498	July 3	202	53	24	37
Merry, Charles H., New Orleans, La. Cotton-gin	285,144	Sept. 18	1222	343	24	1127
Merryman, Edward C., New Freedom, Pa. Bit-brace	273,122	Feb. 27	1947	546	23	802
Merryman, Franklin W., Baltimore, Md. Lamp	273,577	Mar. 6	439	118	23	909
Mersereau & Co., William T. (See Nugent, Daniel D., assignor.)						
Mersereau, Frank D., Orange, N. J. Cornice curtain pole	278,721	June 5	61	19	23	2135
Mersiowsky, August E., Myersdale, Pa., assignor of one-half to N. Diedrich, Bloomington, Ill. Railway-chair	290,189	Dec. 11	1001	282	25	1071
Mershon, A. H. (See Omensetter, Elhanan, assignor.)						
Mershon, Frank A., Philadelphia, Pa. Bench-plane	277,767	May 15	1540	418	23	1903
Mershon, George B., Philadelphia, Pa. Grate	276,616	May 1	86	24	23	1643
Mershon, George B., Philadelphia, Pa. Grate	281,384	July 17	1301	360	24	243
Mershon, John F., Indianapolis, Ind. Screw-cutting indicator lathe attachment	281,283	July 17	1176	325	24	221
Merssmann, Barney F., Macomb, Ill. Winding-indicator for time-pieces	287,559	Oct. 30	2249	610	25	438
Mertsheimer, Fredrick, Denver, Colo. Draft-pipe for steam-boiler furnaces	286,625	Oct. 16	1065	287	25	209
Merveap, John J., New York, N. Y Horseshoe	283,132	Aug. 14	783	220	24	646
Merz, Franz J., Newark, assignor to G. Menzing, Elizabeth, N. J. Water-closet	285,829	Oct. 2	58	18	25	12
Messer, Fred, Beloit, Wis. Machine for dressing rollers for grinding-mills	286,466	Oct. 9	855	232	25	166
Messer, George E. (See Triggs, Frank J., assignor.)						
Messer, John P., Cedar Rapids, Mich. Draft attachment for street-cars	279,784	June 19	1441	404	23	2384
Messinger, G. Frank, Stockertown, Pa. Ball-pitman	278,812	June 5	181	53	23	2153
Messinger, G. Frank, Stockertown, Pa. Thrashing-machine	290,647	Dec. 18	1613	444	25	1185
Messinger, Joseph. (See Johnson, Charles C., assignor.)						
Messinger, William T., Cambridge, Mass. Injector	281,385	July 17	1303	361	24	243
Metcalf, George A., Malden, Mass. Concentrator	286,050	Oct. 2	332	92	25	61
Metcalf, George A., Woonsocket, R. I., and N. Hicks, Attleborough, Mass. Mechanical movement	276,264	Apr. 24	1786	496	23	1556
Metcalf, John S., Indianapolis, Ind. Grain-shovel mechanism	278,993	June 5	460	126, 127	23	2202
Metcalf, Paul & Co. (See Armstrong, Harry W., assignor.)						
Metcalfe, Gilson W., and M. F. Haber, Baltimore, Md. Torpedo-signal placer	284,463	Sept. 4	369	102	24	966
Méthot, Ebens, Boston, Mass. Stocking-supporter	280,846	July 10	634	178	24	118
Mets, Elisha, Rochester, N. Y. Table-leaf support	282,350	July 31	2557	701	24	466
Mettam, Charles, New York, N. Y. Hoisting apparatus	288,586	Nov. 13	1002	276	25	691
Mette, Clemens, Hancock, Mich. Sleigh	280,499	July 3	202	53	24	37
Metz, Adam, Burlington, Iowa. Meat-cutter	281,545	July 17	1504	413	24	277
Metz, Benjamin F., assignor to himself and J. Kauffmann, Medway, Ohio. Car-coupling	271,501	Jan. 30	2087	600	23	416
Metz, Charles H., Utica, N. Y. Hand-rest for books	286,051	Oct. 2	333	92	25	61
Metz, John, *et al.* (See Shedd, William B., assignor.)						
Metzger, John, New York, N. Y. Fire-escape	289,119	Nov. 27	1663	461	25	891
Metzger, Joseph, East Cambridge, Mass. Mechanical musical instrument	270,686	Jan. 16	1068	306	23	224
Metzler, Christian E., and J. H. Burrell, Jr., assignors of one-third to J. Colhoun, Philadelphia, Pa. Signal-lantern	283,633	Aug. 21	1398	391	24	765
Metzler, Johann J., Milwaukee, Wis. Process of and apparatus for brewing beer	276,617	May 1	88	24	23	1643
Meucci, Antonio, Stapleton, and T. Dendi, New York, N. Y. Plastic paste	279,492	June 12	1102	.....	23	2318
Meyer, Anton. (See Sobinski, Charles O., assignor.)						
Meyer, August. (See Titzell, William W., assignor.)						
Meyer, August B., *et al.* (See Gilliland, James F., assignor.)						
Meyer, Christian, St. Paul, Minn. Fire-escape	279,175	June 12	711	194	23	2254
Meyer & Co., Henry C. (See Sutcliffe, Henry and W., assignors.)						
Meyer, Edward, Hallettsville, Tex. Bee-hive	289,683	Dec. 4	385	110, 111	25	954
Meyer, Edward W., New York, N. Y. Cast-lead service-box	281,712	July 24	1728	469	24	319
Meyer, Edward W. A., Boston, Mass. Marble-playing board	284,680	Sept. 11	884	248	24	1062
Meyer, Ernest F., assignor to H. H. Schindler, Lake Charles, La. Draw-bridge alarm	288,470	Nov. 13	868	235	25	666
Meyer, Frederick, Chicago, Ill. Folding baby-carriage	276,853	May 1	410	109	23	1698
Meyer, Gaspard, Paris, France. Rendering manuscripts, &c., incombustible	280,500	July 3	203	.....	24	37
Meyer, George, New York, N. Y. Wood-bending machine	281,104	July 10	936	262	24	173
Meyer, George, New York, N. Y. Reaming-saw	281,105	July 10	938	262	24	173
Meyer, Gottfried, New York, N. Y. Inhaler	280,321	June 26	2097	589	23	2506
Meyer, Henry C. F., Cincinnati, Nebr. Medical compound	271,894	Feb. 6	370	.....	23	506
Meyer, Henry J., Fort Wayne, Ind. Spoon	283,634	Aug. 21	1399	392	24	766
Meyer, Henry K. (See Liebmann, Herman F. W., assignor.)						
Meyer, Henry R., Liverpool, county of Lancaster, England. Underground conduit for electrical conductors	274,213	Mar. 20	1249	344	23	1064
Meyer, Herman H., Denver, Col. Cut-off-valve gear	285,500	Sept. 25	1639	461	24	1208
Meyer, Johann A. H., Dresden, Saxony, Germany. Cutter for paper, cloth, &c	276,265	Apr. 24	1787	497	23	1557
Meyer, Johannes E., Copenhagen, Denmark. Centrifugal machine	273,578	Mar. 6	439	118	23	909
Meyer, Johannes E., Copenhagen, Denmark. Friction-clutch	283,009	Aug. 14	638	181	24	690
Meyer, John H. F., Philadelphia, Pa. Davit and chair for life-boats	276,446	Apr. 24	2024	561	23	1597
Meyer, John W. (See Shepherd and Meyer.)						
Meyer, Sniffin & Co. (See Scott, William, assignor.)						
Meyer, William H., *et al.* (See Eger, John, assignor.)						
Meyers, Francis I., Healdsburg, Cal. Vehicle-brake	270,328	Jan. 9	596	176	23	196
Meyers, John G., Washington, D. C. Burial-vault	285,914	Oct. 2	172	49, 50	25	33
Meysenburg, Edward A., assignor to Mascotte Stove Company, St. Louis, Mo. Oil and gas stove	269,950	Jan. 2	153	45	23	32
Mica Anti-Sunstroke Company. (See Couch, Albert C., assignor.)						
Mica Tip and Lining Company. (See Couch, Albert C., assignor.)						
Michael, Abel, Darke, Ohio. Harrow	285,501	Sept. 25	1640	461	24	1208
Michael, Charles H., La Porte, Ind. Display-rack	290,453	Dec. 18	1363	376	25	1142
Michael, Henry W., Denver, Colo. Heating-furnace	269,673	Jan. 2	59	18	23	14
Michaelis, Ernest R., Sycamore, Ohio. Hasp-lock	289,849	Dec. 11	601	167	25	999

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
elis, Hugo. (See Liebreich and Michaelis.)						
elis, Hugo, Berlin, assignor to Gebr. Stollwerck, Cologne-on-the-Rhine, Prussia, Germany. Manufacture of effervescent sugar	284,464	Sept. 4	370	.....	24	966
elis, Martin S., Benton, La. Cotton-chopper	270,824	Jan. 16	1233	356	23	256
elis, Otho E. (See Carr, Joseph E., assignor.)						
elis, Otho E., Philadelphia, Pa. Bottle-stopper	270,601	Jan. 16	958	278	23	204
elis, Otho E., U. S. Army, assignor of one-half to S. C. Lyford, Philadelphia, Pa. ustable powder-charger	272,072	Feb. 13	606	164	23	557
l, Philip, Stapleton, N. Y. Window-shade	290,698	Dec. 25	1686	464	25	1204
lls, John, Denver, Colo. Medical compound	274,014	Mar. 13	986	.....	23	1011
lson, Albert, Chicago, Ill. Mechanism for laying railway-tracks	287,952	Nov. 6	204	59	25	543
lson, Sigismund M., Milwaukee, Wis. Trunk-tray	278,580	May 29	2561	699	23	2096
lson, Sigismund M., Milwaukee, Wis. Trunk-tray	278,994	June 5	462	127	23	2202
lson, Sigismund M., Milwaukee, Wis. Trunk-caster	280,061	June 26	1789	509	23	2451
lson, Sigismund M., Milwaukee, Wis. Trunk-top support	289,548	Dec. 4	222	62	25	925
lson, Sigismund M., Milwaukee, Wis. Trunk-stay	289,549	Dec. 4	223	62	25	925
ner, James B., and T. L. Varns, Kokomo, Ind.; said Varns assignor to said Michener. -mill dog	289,016	Nov. 27	1533	424	25	798
ner, William R., Oswego, N. Y. Straw-burning steam-boiler	272,453	Feb. 20	1094	309	23	646
l, Charles H. (See Cain, Harry, assignor.)						
y, Samuel T., Salem, N. C. Fire-escape	277,049	May 8	676	176, 177	23	1748
e, Henry G., New Palestine, Ind. Two-wheeled vehicle	279,968	June 26	1674	470	23	2490
e, John, *et al.* (See Leake, Lewis C., assignor.)						
eton, Allen. (See Paige, William H., assignor.)						
eton, James H., *et al.* (See Martin, James, assignor.)						
eton, Simeon A., *et al.* (See Armistead, Thomas J., assignor.)						
eton, William R., Cleveland, Ohio. Steam-cock	276,618	May 1	90	25	23	1643
etown Plate Company. (See Bullard, Henry, assignor.)						
ey, Thomas, Worcester, Mass. Apparatus for annealing, cleaning, and galvanizing lating wire, wire rods, &c	279,580	June 19	1213	336, 337	23	2344
, Joseph, Jr. (See Wode and Mifflin.)						
i, Phillip A. (See Baldwin and Migasi.)						
ll, Montraville P., and A. J. Hull, Sterling, Ill.; said Hull assignor to said Mighell. ng-harrow	272,454	Feb. 20	1095	309	23	646
ult, Eusebe, New York, N. Y. Universal angular knuckle-joint	289,120	Nov. 27	1664	462	25	891
, Patrick, Chelsea, assignor, by mesne assignments, to himself and J. E. Moreland, acy Point, Mass. Gas burner and pipe pliers	272,573	Feb. 20	1253	349	23	674
nk, George, Chillicothe, Mo. Adjusting and supporting millstones, &c	275,929	Apr. 17	1377	379	23	1478
nk, William E. (See Schoonmaker, James W., assignor.)						
urne, John P., Manchester, county of Lancaster, England. Automatic stock-er	285,295	Sept. 18	1389	392	24	1158
rn Gin and Machine Company (See Milburn and Latting, assignors.)						
rn, John D., Memphis, Tenn. Cotton-gin	274,806	Mar. 27	2003	557, 558	23	1203
rn, John D., Memphis, Tenn. Cotton-gin	276,447	Apr. 24	2026	561	23	1598
rn, John D., and R. G. Latting, Jr., assignors to Milburn Gin and Machine Company, nphis, Tenn. Mat for hydraulic oil-presses	279,414	June 12	1012	281	23	2303
am, Joseph N., Jersey City, N. J. Cyclone-refuge	288,354	Nov. 13	708	194	25	639
Alexander, Duluth, Minn. Hair-tonic	289,922	Dec. 11	669	.....	25	1014
Don D., Aurora, Ill. Grain-car door	272,455	Feb. 20	1096	309	23	646
Frederick B., Philadelphia, Pa. Metal-planing machine	273,873	Mar. 13	893	223	23	983
Frederick B., Philadelphia, Pa. Metal-planing machine	275,942	Apr. 3	459	128	23	1305
Frederick B., Philadelphia, Pa. Lathe	280,211	June 26	1956	550, 551	23	2481
Frederick B., Philadelphia, Pa. Steam-hammer	288,840	Nov. 20	1390	362	25	752
George, Wellesley Hills, Mass. Mechanism for cutting paper	289,923	Dec. 11	689	193	25	1014
Harmon A., Concord, N. H. Machine for turning carriage-seat spindles	272,073	Feb. 13	608	165	23	557
Hollon F. (See McCully, John, assignor.)						
Hollon F., assignor to himself and J. McCully, Chicago, Ill. Manufacture of deco-ve glass products	287,768	Oct. 30	2546	685	25	493
John E., Mooresville, Tex. Post-auger	283,010	Aug. 14	640	181	24	620
Lucius E., *et al.* (See Strickler, Frank B., assignor.)						
Purches, Brooklyn, N. Y. Barbed wire for fences	277,916	May 22	1711	468	23	1940
Purches, Brooklyn, N. Y. Combined wires for wire fences	277,917	May 22	1712	468	23	1940
Purches, Brooklyn, N. Y. Clothes-hook	280,062	June 26	1790	502	23	2451
Purches, Brooklyn, N. Y. Hook	280,388	July 3	62	16	24	13
Purches, Brooklyn, N. Y. Hook	280,389	July 3	62	17	24	14
William A., Copake Iron Works, N. Y. Condenser for steam-pumps	271,096	Jan. 23	1569	452	23	318
William A., Copake Iron Works, N. Y. Condenser for steam-pumps	271,097	Jan. 23	1570	452	23	318
William A., Copake Iron Works, N. Y. Condenser for steam-pumps	272,456	Feb. 20	1097	309	23	647
William A., Copake Iron Works, N. Y. Condenser for steam-pumps	272,457	Feb. 20	1098	310	23	647
William A., Copake Iron Works, N. Y. Condenser for pumping-engines	272,458	Feb. 20	1098	310	23	647
William A., Copake Iron Works, N. Y. Screw-joint for metal pipe-fittings	272,574	Feb. 20	1253	350	23	674
William A., Copake Iron Works, N. Y. Condenser for steam-pumps	280,212	June 26	1958	551	23	2481
William A., Copake Iron Works, N. Y. Condenser for steam-engines	280,213	June 26	1959	551, 552	23	2482
William H., Jr., Brooklyn, N. Y. Toilet implement	289,550	Dec. 4	224	63	25	925
William T., Worcester, Mass. Child's dining-chair	275,508	Apr. 10	842	228	23	1378
d, William F. (See Malcom, Robert, assignor.)						
, Adam, Glasgow, Scotland. Magneto-electric machine	270,457	Jan. 9	766	225	23	159
, Adam, Glasgow, Scotland. Electric motor	271,502	Jan. 30	2088	600, 601	23	417
, Charles. (See Jenks and Millar, assignors.)						
, Henry W. (See Jenks and Millar.)						
, Mary C. (See Gallaher, John S., assignor.)						
, Maury O., Chicago, Ill. Horizontal knife grinder and sharpener	279,785	June 19	1442	404	23	2384
d, Albert M., Wausau, Wis. Swamp and grab hook	290,785	Dec. 25	1799	497	25	1226
, George H., J. H. Mantion, F. Labelle, Hull, Quebec, and T. A. Cook, Ottawa, On-, Canada. Apparatus for dipping matches	280,650	July 3	374	104	24	66
, George H., Hull, Quebec, Canada, assignor to Diamond Match Company, Wilming-Del. Machine for transferring matches from the dipping-frame, &c	281,776	July 24	1818	496	24	335
, George H., Hull, Quebec, Canada, assignor to Diamond Match Company, Wilming-Del. Frame for dipping matches	281,777	July 24	1819	496	24	335

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Millen, George H., Hull, Quebec, Canada, assignor to Diamond Match Company, Wilmington, Del. Match-splint machine	281,778	July 24	1820	497	24	335
Millen, Thomas. (See Hewett and Millen.)						
Millener, Charles A., Desconto, Ontario, Canada. Car-brake	275,930	Apr. 17	1379	379	23	1478
Miller, Abiud G., Leyden, N. Y. Mechanical telephone	288,835	Nov. 20	1315	360	25	751
Miller, Abraham, Gridley, Cal. Header	289,951	Jan. 2	154	45	23	32
Miller, Abraham, assignor to Newark Machine Company, Newark, Ohio. Seeding-machine	288,471	Nov. 13	969	235	25	667
Miller, Albert C., Ann Arbor, Mich. Fire-kindler	271,648	Feb. 6	76	21	23	454
Miller, Albert F., Chicago, assignor to S. S. Burr, Winetka, Ill. Bed-bottom	290,067	Dec. 11	886	251, 252	25	1050
Miller, Andrew C., Auburn, N. Y., assignor to D. M. Osborne & Co., New York. Clutch	288,951	Nov. 20	1454	401	25	778
Miller, Benedick, Paola, Kans. Carriage-painter's adjustable horse or jack	276,854	May 1	411	109	23	1698
Miller, Benjamin G., Streator, Ill. Nut-lock	287,041	Oct. 23	1598	440	25	308
Miller Bible and Publishing House. (See Megee, Andrew J., assignor.)						
Miller & Bingham. (See Thompson, David W., assignor.)						
Miller, Charles. (See Waring, George H., assignor.)						
Miller, Charles, Ingersoll, Ontario, Canada. Paint	274,807	Mar. 27	2004	.....	23	1203
Miller, Charles, Auburn, N. Y. Dumping-wagon	278,253	May 22	2131	587	23	2013
Miller, Charles, Auburn, N. Y. Dumping-wagon	286,052	Oct. 2	334	92, 93	25	62
Miller, Charles C., Brooklyn, N. Y., assignor to E. & T. Fairbanks & Co., St. Johnsbury, Vt. Platform-scale	271,726	Feb. 6	165	46	23	469
Miller, Charles C., assignor of one-half to G. Hencken, New York, N. Y. Machine for cutting, granulating, and disintegrating blocks or cakes of sugar	273,875	Mar. 13	825	224	23	963
Miller, Charles C., New York, assignor to J. C. Barnes and T. Schloerb, Brooklyn, N. Y. Apparatus for mixing sugar or similar articles	277,319	May 8	1005	270	23	1805
Miller, Charles C., New York, assignor to J. C. Barnes and T. Schloerb, Brooklyn, N. Y. Machine for cutting blocks or cakes of solidified glucose, sugar, or similar articles	277,320	May 8	1007	270	23	1805
Miller, Charles F., Cresco, Iowa. Trace-carrier	287,456	Oct. 30	2120	576	25	411
Miller, Charles H., Erie, Pa. Attachment for pipe tongs or wrenches	273,874	Mar. 13	825	223	23	963
Miller, Charles H., Columbus, Ohio. Chain-pump iron	281,106	July 10	938	262	24	173
Miller, Charles H., and W. P. Harrison, Columbus, Ohio. Grappling-ring	278,165	May 22	2017	555	23	1993
Miller, Charles R., Lansingburg, N. Y. End-connecting device for rope traces	290,454	Dec. 18	1364	377	25	1142
Miller, Charles R., Lansingburg, N. Y. Rope-trace guide	290,455	Dec. 18	1365	377	25	1142
Miller & Co., Edward. (See Holbrook, Charles A., assignor.)						
Miller & Co., Edward. (See Hornberger, Louis, assignor.)						
Miller & Co., Edward. (See Langston, Thomas, assignor.)						
Miller & Co., Edward. (See Perkins, Orson N., assignor.)						
Miller & Co., Edward. (See Perkins, Russell B., assignor.)						
Miller & Co., Edward. (See Winslow, Henry O., assignor.)						
Miller, Daniel J. (See Findlay and Miller.)						
Miller, Daniel J., Chicago, Ill. Construction of railways	271,727	Feb. 6	168	46	23	469
Miller, Daniel J., and C. F. Findlay, Chicago, Ill. Traction-rope railway	281,284	July 17	1177	325, 326	24	221
Miller, Darwin V., Weedsport, N. Y. Wrench	283,801	Aug. 28	1614	454	24	817
Miller, David B. (See Porter, Benjamin S., assignor.)						
Miller, David K., assignor of one-half to J. W. Lacky, Rockbridge Baths, Va. Plow	287,148	Oct. 23	1730	473	25	334
Miller, David L., Madison, N. J., assignor to W. H. Ely, New York, N. Y. Sewing-machine motor	270,458	Jan. 9	768	225	23	159
Miller, David W., New York, N. Y., assignor of two-thirds to C. S. Davison, Newton, and O. B. Badgley, Westfield, N. J. Adjustable reclining-chair	287,769	Oct. 30	2547	685	25	493
Miller, Edgar G., Baltimore County, Md. Picture-frame	273,378	Mar. 6	185	50	23	865
Miller, Emily V. D., Vicksburg, Miss. Hand cotton-picker	280,651	July 3	376	105	24	66
Miller, Frank, Peoria, Ill. Check-rower	287,953	Nov. 6	205	59	25	543
Miller, Frank, Olema, assignor of one-fourth to U. M. Gordon and D. Nye, San Rafael, Cal. Car-coupling	281,779	July 24	1822	497, 498	24	336
Miller, Frank W. (See Taylor, Bruce, assignor.)						
Miller, Frank W., Wooster, Ohio. Hay-elevator track	275,840	Apr. 17	1275	350	23	1459
Miller, Franklin, assignor of one-half to W. Shick, Muncie, Ind. Grave-vault	278,354	May 29	2296	628	23	2049
Miller, Franklin P. (See Hodkinson and Miller.)						
Miller, Frederick, *et al.* (See Groebl, H. William, assignor.)						
Miller, Fredrick C., Newport, Ky. Friezing-machine	276,855	May 1	411	110	23	1698
Miller, George, *et al.* (See Vincent, John, Jr., assignor.)						
Miller, George B. (See Fisher, Edward D., assignor.)						
Miller, George M., and F. Riemer, Chicago, Ill.; said Riemer assignor to said Miller. Fire-escape	290,908	Dec. 25	1953	539	25	1252
Miller, George W., *et al.* (See Perkins, John C., assignor.)						
Miller, George W., *et al.* (See Randall, Francis W., assignor.)						
Miller, George W., Woonsocket, R. I. Bed for cloth-pressing machines	275,243	Apr. 3	460	128	23	1305
Miller, George W., Woonsocket, R. I. Machine for pressing textile fabrics	285,052	Sept. 18	1107	309	24	1108
Miller, George W., Kalamazoo, Mich. Railway-velocipede	289,017	Nov. 27	1533	424	25	798
Miller, H. P. (See Cade, George, assignor.)						
Miller, Harvey H., Canton, Ohio. Sled	287,700	Oct. 30	2451	660	25	476
Miller, Henry, Greeley, Colo. Lifting-jack	272,969	Feb. 27	1760	492	23	769
Miller, Henry, Greeley, Colo., assignor to Monitor Works, Beloit, Wis. Lifting-jack	283,635	Aug. 21	1400	392	24	766
Miller, Henry J., Goshen, N. Y. Spoke-tenoning and felly-boring machine	278,995	June 5	463	127	23	2202
Miller, Henry W., Jr., Philadelphia, Pa. Hair-felt covering	290,456	Dec. 18	1366	377	25	1142
Miller, J. Frank, Oakland, Cal. Postal scale	276,701	May 1	211	54, 55	23	1660
Miller, Jacob, *et al.* (See Mack, Alfred L., assignor.)						
Miller, Jacob, Canton, Ohio. Grain thrashing and separating machine	274,097	Mar. 13	1088	300	23	1028
Miller, Jacob, Canton, Ohio. Thrashing and cleaning machine	275,244	Apr. 3	460	128	23	1305
Miller, Jacob, Rockport, Ind. Weather-boarding gage	290,457	Dec. 18	1366	377	25	1142
Miller, Jacob, and D. Mager, Allentown, Pa. Radiating-drum for hot-air furnaces	287,149	Oct. 23	1730	474	25	334
Miller, Jacob D. (See Eyster, Edward G., assignor.)						
Miller, Jacob D., York, Pa. Car-coupling	274,808	Mar. 27	2005	558	23	1203
Miller, Jacob D., York, assignor to himself and J. Broadbeck, Jeffersonborough, Pa. Car-brake	282,748	Aug. 7	332	95	24	558
Miller, Jacob O. (See Barratt, Henry, assignor.)						
Miller, James, Oakland, Cal. Filter	271,098	Jan. 23	1572	452	23	318
Miller, James, assignor of one-half to C. H. Delamater and G. H. Robinson, New York, N. Y. Drilling-machine	282,750	Aug. 7	336	95	24	558
Miller, James B., Kent, Ohio. Balance-valve	281,907	July 24	1984	543	24	364
Miller, James F., Spring Station, Ind. Finger-bar for mowing and reaping machines	282,749	Aug. 7	333	95	24	558
Miller, James K., New York, N. Y. Shoe-cover	282,915	Aug. 7	521	146	24	598

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Miller, James W., Newark, N. J. Sleeve or other button	280,214	June 26	1960	552	23	2482
Miller, Jesse, Southport, Ind. Combined harrow and crusher	272,074	Feb. 13	640	165	23	557
Miller, Joel, Philadelphia, Pa. Horse-boot	288,836	Nov. 20	1316	361	25	751
Miller, John, Will's Point, Tex. Combined clod-crusher and sod and stalk cutter	273,123	Feb. 27	1947	546	23	802
Miller, John, Cambridgeport, Mass. Screw-threading device	274,630	Mar. 27	1797	500	23	1167
Miller, John, Cambridgeport, Mass. Pipe-cutter	274,631	Mar. 27	1798	500	23	1167
Miller, John, Milton, Oreg. Machine for dampening or wetting grain	278,996	June 5	466	128	23	2203
Miller, John, Racine, Wis. Creamery attachment for refrigerators	280,940	July 10	752	209	24	138
Miller, John A., Paducah, Ky. Car-signal	271,348	Jan. 30	1889	547	23	381
Miller, John A., assignor to Greene Stove Company, Newark, N. J. Fire-pot for stoves	277,050	May 8	679	177	23	1748
Miller, John C., and A. H. Jones, assignors to Foster Hardware Company, Meriden, Conn. Drawer-pull	288,837	Nov. 20	1316	361	25	752
Miller, John H., Rising Sun, Ohio. Hoisting apparatus	285,915	Oct. 2	175	50	25	34
Miller, John J., Chicago, Ill. Oil-burner	281,107	July 10	939	263	24	173
Miller, John S., assignor of one-half to G. Frey, St. Louis, Mo. Trace-fastener	275,245	Apr. 3	461	128	23	1305
Miller, John S., assignor of one-third to G. Frey, St. Louis, Mo. Stamp case and attacher	279,786	June 19	1443	404	23	2385
Miller, John T., Iowa Falls, Iowa. Ditching-plow	284,465	Sept. 4	371	103	24	967
Miller, Jonathan, Concord, N. H. Recovering metallic particles from water	288,838	Nov. 20	1317	361	25	752
Miller, Jonathan, Concord, N. H. Ore-concentrator	289,018	Nov. 27	1534	424	25	799
Miller, Jonathan, Concord, N. H. Apparatus for collecting and saving metallic particles	290,258	Dec. 18	1093	305	25	1096
Miller, Jonathan, Concord, N. H. Recovering metals	290,458	Dec. 18	1367	378	25	1143
Miller, Josef, New York, N. Y. Method of and apparatus for bleaching ivory	281,780	July 24	1823	498	24	336
Miller, Joseph, and D. Howarth, assignors of one-half to M. W. Barse, Olean, N. Y. Steam-generator	273,579	Mar. 6	441	118	23	910
Miller, Joseph A., trustee. (See Breckenridge, Henry W., assignor.)						
Miller, Joseph A. (See Ford, Franklin D., assignor.)						
Miller, Joseph A., New York, N. Y. Fire-escape	287,560	Oct. 30	2240	610	25	438
Miller, Joseph H., Moline, Ill. Pillow-sham holder	278,581	May 29	2562	699	23	2096
Miller, Joseph P., Philadelphia, Pa. Brick-press	283,802	Aug. 28	1615	454	24	817
Miller, Justus. (See Thompson, David W., assignor.)						
Miller, Justus. (See Tracy, William H. H., assignor.)						
Miller, Lebbeus B., Elizabeth, N. J. Mechanism for converting motion	274,094	Mar. 13	1086	299	23	1028
Miller, Lebbeus B., and P. Diehl, Elizabeth, N. J. Shuttle-holder for sewing-machines	283,636	Aug. 21	1401	392	24	766
Miller, Lebbeus B., and P. Diehl, Elizabeth, N. J., assignors to Singer Manufacturing Company of New Jersey. Ruffling attachment for sewing-machines	272,300	Feb. 13	881	247	23	604
Miller, Lebbeus B., and P. Diehl, Elizabeth, N. J., assignors to Singer Manufacturing Company of New Jersey. Sewing-machine	274,359	Mar. 20	1433	393	23	1096
Miller, Lebbeus B., and P. Diehl, Elizabeth, N. J., assignors to Singer Manufacturing Company of New Jersey. Sewing-machine	275,402	Apr. 10	708	189	23	1356
Miller, Levi K., Collamer, Pa. Tire-upsetter	273,580	Mar. 6	441	119	23	910
Miller, Levi L., *et al.* (See Mack, Alfred L., assignor.)						
Miller, Lewis, Akron, Ohio. Harvester-binder	271,253	Jan. 30	1755	508, 509	23	357
Miller, Lewis, Akron, Ohio. Harvester-binder	271,254	Jan. 30	1759	510	23	358
Miller, Lewis, Akron, Ohio. Grain-binding harvester	276,448	Apr. 24	2027	562, 563	23	1598
Miller, Lewis, Akron, Ohio. Harvester	276,449	Apr. 24	2031	563, 564	23	1598
Miller, Lewis, Akron, Ohio. Grain-binding harvester	290,459	Dec. 18	1368	378, 379	25	1143
Miller, Lewis, and A. E. Ellinwood, Akron, Ohio. Wheel for harvesters	276,450	Apr. 24	2032	564	23	1598
Miller, Luke H., Baltimore, Md. Fire-proof lining for boxes, safes, doors, shutters, vaults, &c	283,133	Aug. 14	784	.....	24	646
Miller, Matilda S. (See Smith, William, assignor.)						
Miller, Max, Brooklyn, N. Y. Toy kitchen	289,121	Nov. 27	1665	462	25	891
Miller, Michael, Glenwood, Iowa. Trestle	288,651	Nov. 20	1089	299	25	712
Miller, Morgan B. (See Stanwood and Miller.)						
Miller, Richard, assignor of one-half to J. G. Kanouse, Appleton, Wis. Hay-carrier	288,839	Nov. 20	1318	361, 362	25	752
Miller, Richard W., assignor of one-third to J. Totham, New Haven, Conn. Device for preventing hammer in water-pipes	273,379	Mar. 6	186	50	23	866
Miller, Robert, *et al.* (See Cowell, Edward R. E., assignor.)						
Miller, Rodolphus, Lansing, N. Y. Form for making crates	285,053	Sept. 18	1109	309	24	1108
Miller, Samuel, Moweaqua, Ill. Combined harrow and clod-crusher	285,644	Sept. 25	1810	515	24	1240
Miller, Samuel J., Cambridge City, Ind. Sliding gate	281,908	July 24	1985	544	24	365
Miller, Samuel Y., Union County, Ind. Corn-harrow	270,241	Jan. 9	492	145	23	107
Miller, Tedor T., Hico, Tex. Seeding-machine	273,755	Mar. 13	666	178	23	956
Miller, Theodore C., Canton, Ohio. Support for ironing-boards	271,895	Feb. 6	370	102	23	506
Miller, Theodore E., Houston, Tex. Combination implement for sealing packages and railway-cars	270,092	Jan. 2	304	90	23	62
Miller, Thomas, Jr., Springborough, Ohio. Wagon-jack	275,931	Apr. 17	1380	380	23	1478
Miller, Thomas L., Pearsall, Tex. Veterinary medicine	287,701	Oct. 30	2452	.....	25	476
Miller, Warren P., Brooklyn, N. Y. Chair-seat spring	270,093	Jan. 2	306	91	23	62
Miller, Warren P., Brooklyn, N. Y. Sewing-machine guide	271,728	Feb. 6	170	46	23	470
Miller, Warren P., Brooklyn, N. Y. Carpet-cleaner	288,720	Nov. 20	1182	323	25	726
Miller, Washington J., Alameda, Cal. Combined thimble and thread-cutter	273,380	Mar. 6	187	50	23	866
Miller, William, Boston, Mass. Twine-cutter	286,467	Oct. 9	857	233	25	166
Miller, William, Boston, Mass. Life-preserving mattress	289,122	Nov. 27	1666	462	25	822
Miller, William H. (See Cooper, John W., assignor.)						
Miller, William H., Worcester, Mass. Peg-float	275,687	Apr. 10	1070	292	23	1417
Miller, William H., South Bend, Ind. Fifth-wheel	275,688	Apr. 10	1071	292	23	1417
Miller, William K., Canton, Ohio. Universal joint	279,415	June 12	1013	281	23	2304
Miller, William K., Canton, Ohio. Steam-actuated valve	287,845	Nov. 6	65	19, 20	25	519
Miller, William R., Baltimore, Md. Paper box	282,657	Aug. 7	220	64	24	538
Miller, William T. (See Westerman and Miller.)						
Miller, Wilson B., Indianapolis, Ind. Farm-gate	286,053	Oct. 2	336	93	25	62
Millerstedt, George, Philadelphia, Pa. Railway-switch	280,215	June 26	1962	552	23	2482
Millholland, Henry, Philadelphia, Pa. Spark-arrester	271,255	Jan. 30	1761	510	23	358
Millholland, Henry, assignor of nine-twentieths to R. W. Lesley and C. V. Grant, Philadelphia, Pa. Car-axle box	270,908	Jan. 23	1339	386	23	281
Millholland, Henry, assignor of one-half to R. W. Lesley, Philadelphia, Pa. Blast-concentrator for locomotives	282,103	July 31	2227	612, 613	24	411
Millholland, Henry, assignor of one-half to R. W. Lesley, Philadelphia, Pa. Deflecting-plate for locomotives	282,104	July 31	2229	613	24	412

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Millholland, James A., Cumberland, Md. Coal-car	282,751	Aug. 7	335	95, 96	24	559
Milligan, Charles A., Somerville, and M. J. Killion, Needham, assignors of one-third to W. Killion, Boston, Mass. Self-leveling berth	273,581	Mar. 6	442	119	23	910
Milligan, Henry C., South Orange, N. J., assignor to Iron Clad Manufacturing Company, New York, N. Y. Stove-board	273,582	Mar. 6	444	119	23	911
Milligan, John C., Brooklyn, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Portable toilet-stand	270,459	Jan. 9	770	225	23	159
Milligan, John C., Brooklyn, and J. Chaumont, Woodhaven, assignors to Lalance & Grosjean Manufacturing Company, New York, N. Y. Enameled iron wash-basin	285,645	Sept. 25	1811	515	24	1241
Milligan, Sylvester H., near McCluney, Ohio. Car-coupling	271,896	Feb. 6	371	103	23	506
Milligan, William T., Boston, Mass., assignor to Brunswick Ship's Berth Company, of Connecticut. Automatic ship's berth	277,321	May 8	1008	270, 271	23	1806
Milliken, A. C. (See Gibb, Walter, assignor.)						
Milliken, George, Oneco, Ill. Adjustable elevator	287,042	Oct. 23	1509	440	25	309
Milliken, John A. (See Barton and Milliken.)						
Milliken, William H., San Francisco, Cal. Hydraulic elevator	281,781	July 24	1824	498	24	336
Millon, Hyppolite. (See Gavard and Millon.)						
Mills, Andrew B., Pittsburg, Pa. Glass crock	287,846	Nov. 6	68	20	25	519
Mills & Bro., Thos. (See Mills, Thomas, assignor.)						
Mills, Charles L., Brooklyn, N. Y. Bed-bottom spring	277,322	May 8	1011	271	23	1806
Mills, Charles L., Brooklyn, N. Y. Folding spring bed-bottom	277,323	May 8	1012	271	23	1806
Mills, Charles W., assignor of one-half to W. Hallowell, Philadelphia, Pa. Fire-escape	282,351	July 31	2558	701	24	466
Mills, Chauncey W., Rochester, N. Y. Metallic packing for piston-rods	284,042	Aug. 28	1923	538	24	871
Mills & Co., J. R. (See Schwemlein, George, assignor.)						
Mills, Daniel, Philadelphia, Pa. Sewing-machine	272,740	Feb. 20	1455	408, 409	23	710
Mills, Daniel, Philadelphia, Pa. Friction-clutch	286,214	Oct. 9	531	145	25	108
Mills, Daniel, Philadelphia, Pa. Mechanical motion	286,215	Oct. 9	532	146	25	108
Mills, Frank A., and T. A. Mossop, Philadelphia, Pa. Compensating pendulum	279,176	June 12	712	194	23	2255
Mills, Frederick, and C. H. Knight, Boston, Mass. Book	289,434	Dec. 4	74	21	25	900
Mills, Henry H. (See Gibbons, David, assignor.)						
Mills, Isaac N., Dover, assignor of two-thirds to W. Huston and H. N. Wickersham, Wilmington, Del. Heating, cooling, and ventilating apparatus	283,637	Aug. 21	1402	392	24	766
Mills, Jonathan, Chicago, Ill. Sprocket for rope and similar belts	276,619	May 1	91	25	23	1643
Mills, Joseph. (See Schmitz and Mills.)						
Mills, Lucius F., Ionia, Mich. Carburetor	281,108	July 10	940	263, 264	24	174
Mills, Merrill B. (See Gardner and Mills.)						
Mills, Patrick. (See Rees and Mills.)						
Mills, Thomas, assignor to Thos. Mills & Bro., Philadelphia, Pa. Ice-cream dasher	278,997	June 5	467	128	23	2203
Mills, Thomas B., *et al.* (See Welles, Richard J., assignor.)						
Mills, William, *et al.* (See Welles, Richard J., assignor.)						
Mills, William N., assignor of one-half to A. C. Van Meter, Truro, Nova Scotia, Canada. Knob attachment	283,134	Aug. 14	785	220	24	646
Millspaugh, Rolla L., Winfield, Kans. Wheel for sulky-plows	286,468	Oct. 9	858	233	25	166
Milne, George, and W. H. Gants, assignors of one-third to P. B. Quinlan, San Francisco, Cal. Water-closet. (Reissue)	10,377	Aug. 28	2060	578	24	898
Milsted, William N., *et al.* (See Burton, Joseph, assignor.)						
Miltimore, Alonzo E., U. S. Army, and A. J. Wolff, New York, N. Y. Wheel	280,063	June 26	1792	502, 503, 504	23	2451
Milton, John, Hamilton, Va. Knob-latch	281,109	July 10	946	265	24	174
Milton, Samuel A., Clinton, Mo. Shoe-fastening	273,124	Feb. 27	1948	547	23	803
Minard, Orlando W., Johnsville, Pa. Grinding the bases of glass tumblers	280,941	July 10	752	209	24	138
Minchener, Joseph, Troy, Ala. Cotton-planter	283,135	Aug. 14	786	220	24	646
Minck, George. (See Asher and Minck.)						
Miner, Ebenezer P. (See Magee, Daniel W., assignor.)						
Miner, Henry M., assignor to Granite Roofing Company, (limited,) Pittsburg, Pa. Apparatus for making roofing fabric	275,841	Apr. 17	1276	350	23	1459
Miner, Henry M., assignor to Granite Roofing Company, (limited,) Pittsburg, Pa. Machine for making roofing fabric	276,856	May 1	413	110	23	1699
Miner, Henry M., assignor to Granite Roofing Company, (limited,) Pittsburg, Pa. Roofing fabric	278,722	June 5	62	19	23	2135
Miner, Theodore F. (See Baer, Miner, and Taylor.)						
Miner, William W., Boston, Mass. Finishing horseshoe-nail blanks	287,150	Oct. 23	1732	474	25	334
Mingus, William T., Newark, N. J. Lock for sliding doors	275,066	Apr. 3	245	67	23	1268
Minich, Jacob K., North Hampton, Ohio. Try-square and bevel	287,847	Nov. 6	69	21	25	519
Minister, Robert H., Baltimore, Md. Grinding and decorticating mill	284,466	Sept. 4	372	103	24	967
Minneapolis Harvester Works. (See Appleby, John F., assignor.)						
Minneley, William E., Wellsville, N. Y. Harness-buckle	284,467	Sept. 4	373	104	24	967
Minnich, John G., Jr., Bedford, Pa. Necktie and collar stay	287,043	Oct. 23	1600	440	25	309
Minnick, Lorenzo D. (See Smith, Joseph D., assignor.)						
Minor, A. N., *et al.* (See Graham, Andrew, assignor.)						
Minor, Lyman D., assignor of one-half to J. P. Lindsay, New York, N. Y. Garment-clasp	272,075	Feb. 13	610	165	23	558
Minor, W. T. (See Passenger, John S., assignor.)						
Minot, Chester, *et al.* (See Minot, Hiram P., assignor.)						
Minot, Hiram P., assignor to C. Minot, Columbus, Ohio, and S. Watson, Cambridge City, Ind. Ore-separator	273,583	Mar. 6	445	120	23	911
Mitchell, Ackber O. (See Ackerman, Mitchell, and Underwood.)						
Mitchell, Albert S. (See Mulligan, George, assignor.)						
Mitchell, Alexander, Wilkes-Barré, Pa. Spark-arrester	280,064	June 26	1794	504	23	2451
Mitchell, Ardon M., assignor of one-half to A. Ebbes, Fort Lee, N. J. Sleigh	278,447	May 29	2410	657	23	2070
Mitchell, C. H. (See Grace, William, assignor.)						
Mitchell, Charles, Poughkeepsie, N. Y. Machinery for cutting and mitering printers' rules	271,349	Jan. 30	1890	547	23	381
Mitchell, Charles, Shenandoah, Iowa. Seed-planter	276,266	Apr. 24	1788	497	23	1557
Mitchell, George E., Brooklyn, N. Y. Pad or pillow for the use of travelers	270,242	Jan. 9	493	145	23	107
Mitchell, Gove, Langhorn, Pa. Elevator	272,970	Feb. 27	1761	492	23	769
Mitchell, Isabel M., Philadelphia, Pa. Preserving food	277,768	May 15	1541	418	23	1904
Mitchell, J. Henry, Philadelphia, Pa. Icing-machine for confectionery	271,897	Feb. 6	372	103	23	506
Mitchell, J. Henry, Philadelphia, Pa. Machinery for ornamenting cakes, &c	271,898	Feb. 6	374	103, 104	23	507
Mitchell, J. Henry, Philadelphia, Pa. Machinery for the manufacture of matches	284,650	Sept. 11	599	169, 170	24	1012
Mitchell, J. Henry, Philadelphia, Pa. Manufacture of friction-matches	284,651	Sept. 11	602	.....	24	1012

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mitchell, Jacob, Reading, Mass. Tea-pot	275,246	Apr. 3	462	129	23	1305
Mitchell, James, Bill, Ga. Turpentine-scraper	281,110	July 10	947	265	24	174
Mitchell, James B., Los Angeles, Cal. Fountain-pen	284,318	Sept. 4	196	55	24	938
Mitchell, James C., assignor of two-thirds to J. A. Smith and A. R. Tinkham, Lancaster, N. H. Car-coupling	285,145	Sept. 18	1223	344	24	1127
Mitchell, John E., Winfield, Kans. Washing-machine	281,111	July 10	948	265	24	175
Mitchell, John E., Fowler, assignor of one-half to A. D. Raub, Earl Park, Ind. Shovel for cultivators	272,301	Feb. 13	882	247	23	606
Mitchell, John S., Newark, N. J. Hame	287,954	Nov. 6	206	60	25	543
Mitchell, Lewis T., Galt, Cal. Portable stacking-derrick	275,689	Apr. 10	1072	292	23	1417
Mitchell, N. Chapman, Philadelphia, Pa. Rubber compound	290,909	Dec. 25	1953	.....	25	1252
Mitchell, Obed H., Springfield, Mo. Lever-derrick	281,639	July 17	1623	444	24	296
Mitchell, Obed H., Springfield, Mo. Lever-derrick	290,786	Dec. 25	1800	497, 498	25	1226
Mitchell, Oscar C. (See Mitchell, Wray and O. C.)						
Mitchell, Otis M., Marathon, N. Y. Blackboard	281,112	July 10	949	266	24	175
Mitchell, Phillipp. (See Mahar, Michael W., assignor.)						
Mitchell, Tobias P., Haverhill, Mass. Boot or shoe	290,460	Dec. 18	1374	379	25	1144
Mitchell, William, New York, N. Y. Fishing-rod	270,460	Jan. 9	770	225	23	159
Mitchell, William F., Williams, assignor to himself and H. S. Darr, Leesville, Ind. Buckle	289,084	Dec. 4	387	111	25	955
Mitchell, William H., Boston, Mass. Dividers or compasses	280,390	July 3	63	17	24	4
Mitchell, William H., Boston, Mass. Calipers and dividers	286,469	Oct. 9	858	233	25	167
Mitchell, William S., Washington, D. C. Mechanism for propelling vehicles	271,899	Feb. 6	378	104, 105	23	507
Mitchell, Wray and O. C., Rapids, N. Y. Unloading hay and grain in barns	274,010	Mar. 13	982	269	23	1010
Mitchelson, Edward J., Saybrook, Ohio. Sap-feeder	290,910	Dec. 25	1954	539	25	1252
Mitscherlich, Alexander, München, Prussia, Germany. Preparing cellulose from wood	284,319	Sept. 4	198	56	24	938
Mix, Eugene M. and J. E., Buffalo, N. Y. Latch	283,968	Aug. 14	957	266, 267	24	678
Mix, Frank W. (See Spiegel, Henry L., assignor.) (Reissue)						
Mix, Frank W., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Lock	281,713	July 24	1729	469	24	319
Mix, Frank W., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Trunk-lock	285,916	Oct. 2	176	50, 51	25	34
Mix, Frank W., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Cabinet-lock	286,327	Oct. 9	697	186	25	137
Mix, Frederick J., Newark, N. J. Shoe-fastener	281,909	July 24	1986	544	24	365
Mix, James E. (See Mix, Eugene M. and J. E.)						
Mixer, William M. (See De La Vergne and Mixer.)						
Mixer, William M., New York, N. Y. Oil-saving contrivance	284,752	Sept. 11	732	205	24	1035
Mixer, William M., New York, N. Y. Ice-machine	290,911	Dec. 25	1955	539, 540	25	1252
Mixter, Calvin S. (See Hiester, Charles E., assignor.)						
Mize, Edward. (See Collins, Erasmus B., assignor.)						
Mizenes, Samuel H. (See Simmons, Myron E., assignor.)						
Mlinarich, Gioseppe I. P., Del Rio, Tex. Nut-lock	277,769	May 15	1542	419	23	1904
Mock, Eugene A. (See Kemp and Mock.)						
Mock, Severin, Providence, R. I. Spinning-mule	288,841	Nov. 20	1321	362, 363	25	752
Model Machine Company. (See Mullins, Joshua C., assignor.)						
Model Machine Company. (See Osborn, Adelbert E., assignor.)						
Modes & Brauer. (See Pannster, Gustav, assignor.)						
Moebs, George, Detroit, Mich. Machine for bunching cigars	288,355	Nov. 13	709	194	25	639
Moehl, Daniel, V. Pausch, and L. Moehl, Columbus, Ohio. Wagon-seat	283,803	Aug. 28	1616	455	24	817
Moehl, Louis. (See Moehl, Pausch, and Moehl.)						
Moeller, Carl W., and M. Schmid, Chicago, Ill.; said Moeller assignor to said Schmid. Machine for making picture-moldings	285,646	Sept. 25	1812	516, 517	24	1241
Moeller, Henry F., Davenport, Iowa. Washing-machine	273,584	Mar. 6	447	120	23	911
Moeller, Jacob E., Centralia, Ill. Railway-rail joint	289,298	Nov. 27	1873	520	25	861
Moenke, Johann. (See Rohne and Moenke.)						
Moeslein, Valentine, New York, N. Y. Hat-sewing machine	275,067	Apr. 3	246	68	23	1268
Moessinger, Philip. (See Oliver, John L., assignor.)						
Moffat, John A., Hamilton, Ontario, Canada. Potato-peeling machine	273,125	Feb. 27	1949	547	23	803
Moffatt, Richard R., Brooklyn, N. Y. Electric-arc lamp	286,144	Oct. 2	445	121	25	83
Moffet, John, New York, N. Y. Rotary steam-pump	276,857	May 1	414	110	23	1699
Moffet, John, New York, N. Y. Fire-escape	285,296	Sept. 18	1390	393	24	1159
Moffitt, Arthur L., *et al.* (See Thatcher and Johnson, assignors.)						
Moffitt, John, Chicago, Ill. Medicine-spoon	285,054	Sept. 18	1110	309	24	1108
Moffitt, John A., Arlington, Mass. Carbon electrode for electric lights	281,285	July 17	1179	.....	24	222
Mogren, Axel, Worcester, Mass. Annealing-furnace	285,496	Sept. 25	1556	438	24	1193
Mohr, Paul. (See Williams, William H., assignor.)						
Moise, Lionel H., San Francisco, Cal. Type-holding attachment for hand-stamps	280,652	July 3	376	105	24	66
Moldenhauer, Fredrick W., Ashippun, Wis. Horseshoe attachment for marshy ground	280,216	June 26	1963	553	23	2483
Mole, Alfred B. (See Cadigon, Edward, assignor.)						
Molecular Telephone Company. (See Bartlett and Waite, assignors.)						
Molecular Telephone Company. (See Waite, Henry E., assignor.)						
Molecular Telephone Company. (See Waite and Bartlett, assignors.)						
Molendo, Hermann, New York, N. Y. Fire-extinguishing apparatus	285,146	Sept. 18	1224	344	24	1127
Molera, Eusebius J., and J. C. Cebrian, San Francisco, Cal. Speed-regulator and reversing device for electric motors	275,842	Apr. 17	1277	351	23	1459
Molera, Eusebius J., and J. C. Cebrian, San Francisco, Cal. Apparatus for making carbon plates	278,355	May 29	2297	628	23	2049
Molera, Eusebius J., assignor to J. C. Cebrian, San Francisco, Cal. Device for magnetizing the tires of drive-wheels of locomotives	288,356	Nov. 13	710	195	25	639
Moll, Gustav H., St. Louis, Mo. Umbrella	284,043	Aug. 28	1924	538	24	871
Moll, William. (See Scherer, Moll, and Marsh.)						
Moller, William, Yonkers, N. Y. Amalgamator	272,741	Feb. 20	1460	410	23	710
Moller, William, Yonkers, N. Y. Amalgamator	272,742	Feb. 20	1461	410	23	711
Molloy, Bernard C., London, England. Method and apparatus employed in extracting gold and silver from their ores and in forming amalgams	290,259	Dec. 18	1094	305	25	1096
Moncur, James, Owen Sound, Ontario, Canada. Lantern	275,509	Apr. 10	843	228	23	1378
Moncur, James, Owen Sound, Ontario, Canada. Lantern	285,147	Sept. 18	1226	344	24	1127
Monell, Ira F., Crisman, Colo. Ore-sizing apparatus	270,825	Jan. 16	1234	356	23	256
Monfort, Edgar A., New York, N. Y. Cartridge	276,451	Apr. 24	2033	564	23	1599

Alphabetical list of patentees—Continued.

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Milligan, Henry C., South Orange, N. J., assignor to Iron Clad Manufacturing Company, New York, N. Y. Stove-board	273,582	Mar. 6	444	119	23	911
Milligan, John C., Brooklyn, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Portable toilet-stand	270,459	Jan. 9	770	225	23	159
Milligan, John C., Brooklyn, and J. Chaumont, Woodhaven, assignors to Lalance & Grosjean Manufacturing Company, New York, N. Y. Enameled iron wash-basin	285,645	Sept. 25	1811	515	24	1241
Milligan, Sylvester H., near McCluney, Ohio. Car-coupling	271,896	Feb. 6	371	103	23	506
Milligan, William T., Boston, Mass., assignor to Brunswick Ship's Berth Company, of Connecticut. Automatic ship's berth	277,321	May 8	1008	270, 271	23	1806
Milliken, A. C. (See Gibb, Walter, assignor.)						
Milliken, George, Oneco, Ill. Adjustable elevator	287,042	Oct. 23	1599	440	25	309
Milliken, John A. (See Barton and Milliken.)						
Milliken, William H., San Francisco, Cal. Hydraulic elevator	281,781	July 24	1824	498	24	336
Millon, Hyppolite. (See Gavard and Millon.)						
Mills, Andrew B., Pittsburg, Pa. Glass crock	287,846	Nov. 6	68	20	25	519
Mills & Bro., Thos. (See Mills, Thomas, assignor.)						
Mills, Charles L., Brooklyn, N. Y. Bed-bottom spring	277,322	May 8	1011	271	23	1806
Mills, Charles L., Brooklyn, N. Y. Folding spring bed-bottom	277,323	May 8	1012	271	23	1806
Mills, Charles W., assignor of one-half to W. Hallowell, Philadelphia, Pa. Fire-escape	282,351	July 31	2558	701	24	466
Mills, Chauncey W., Rochester, N. Y. Metallic packing for piston-rods	284,042	Aug. 28	1923	538	24	871
Mills & Co., J. R. (See Schwemlein, George, assignor.)						
Mills, Daniel, Philadelphia, Pa. Sewing-machine	272,740	Feb. 20	1455	408, 409	23	710
Mills, Daniel, Philadelphia, Pa. Friction-clutch	286,214	Oct. 9	531	145	25	108
Mills, Daniel, Philadelphia, Pa. Mechanical motion	286,215	Oct. 9	532	146	25	108
Mills, Frank A., and T. A. Mossop, Philadelphia, Pa. Compensating pendulum	279,176	June 12	712	194	23	2255
Mills, Frederick, and C. H. Knight, Boston, Mass. Book	289,434	Dec. 4	74	21	25	900
Mills, Henry H. (See Gibbons, David, assignor.)						
Mills, Isaac N., Dover, assignor of two-thirds to W. Huston and H. N. Wickersham, Wilmington, Del. Heating, cooling, and ventilating apparatus	283,637	Aug. 21	1402	392	24	766
Mills, Jonathan, Chicago, Ill. Sprocket for rope and similar belts	276,619	May 1	91	25	23	1643
Mills, Joseph. (See Schmitz and Mills.)						
Mills, Lucius F., Ionia, Mich. Carburetor	281,108	July 10	940	263, 264	24	174
Mills, Merrill B. (See Gardner and Mills.)						
Mills, Patrick. (See Rees and Mills.)						
Mills, Thomas, assignor to Thos. Mills & Bro., Philadelphia, Pa. Ice-cream dasher	278,997	June 5	467	128	23	2303
Mills, Thomas B., *et al.* (See Welles, Richard J., assignor.)						
Mills, William, *et al.* (See Welles, Richard J., assignor.)						
Mills, William N., assignor of one-half to A. C. Van Meter, Truro, Nova Scotia, Canada. Knob attachment	283,134	Aug. 14	785	220	24	646
Millspaugh, Rolla L., Winfield, Kans. Wheel for sulky-plows	286,468	Oct. 9	858	233	25	166
Milne, George, and W. H. Gants, assignors of one-third to P. B. Quinlan, San Francisco, Cal. Water-closet. (Reissue)	10,377	Aug. 28	2080	578	24	898
Milsted, William N., *et al.* (See Burton, Joseph, assignor.)						
Miltimore, Alonzo E., U. S. Army, and A. J. Wolff, New York, N. Y. Wheel	280,063	June 26	1792	502, 503, 504	23	2451
Milton, John, Hamilton, Va. Knob-latch	281,109	July 10	946	265	24	174
Milton, Samuel A., Clinton, Mo. Shoe-fastening	273,124	Feb. 27	1948	547	23	803
Minard, Orlando W., Johnsville, Pa. Grinding the bases of glass tumblers	280,941	July 10	752	209	24	138
Minchener, Joseph, Troy, Ala. Cotton-planter	283,135	Aug. 14	786	220	24	646
Minck, George. (See Asher and Minck.)						
Miner, Ebenezer P. (See Magee, Daniel W., assignor.)						
Miner, Henry M., assignor to Granite Roofing Company, (limited,) Pittsburg, Pa. Apparatus for making roofing fabric	275,841	Apr. 17	1276	350	23	1459
Miner, Henry M., assignor to Granite Roofing Company, (limited,) Pittsburg, Pa. Machine for making roofing fabric	276,856	May 1	413	110	23	1699
Miner, Henry M., assignor to Granite Roofing Company, (limited,) Pittsburg, Pa. Roofing fabric	278,722	June 5	62	19	23	2135
Miner, Theodore F. (See Baer, Miner, and Taylor.)						
Miner, William W., Boston, Mass. Finishing horseshoe-nail blanks	287,150	Oct. 23	1732	474	25	334
Mingus, William T., Newark, N. J. Lock for sliding doors	275,066	Apr. 3	245	67	23	1268
Minich, Jacob K., North Hampton, Ohio. Try-square and bevel	287,847	Nov. 6	69	21	25	519
Minister, Robert H., Baltimore, Md. Grinding and decorticating mill	284,466	Sept. 4	372	103	24	967
Minneapolis Harvester Works. (See Appleby, John F., assignor.)						
Minneley, William E., Wellsville, N. Y. Harness-buckle	284,467	Sept. 4	373	104	24	967
Minnich, John G., Jr., Bedford, Pa. Necktie and collar stay	287,043	Oct. 23	1600	440	25	309
Minnick, Lorenzo D. (See Smith, Joseph D., assignor.)						
Minor, A. N., *et al.* (See Graham, Andrew, assignor.)						
Minor, Lyman D., assignor of one-half to J. P. Lindsay, New York, N. Y. Garment-clasp	272,075	Feb. 13	610	165	23	558
Minor, W. T. (See Pessenger, John S., assignor.)						
Minot, Chester, *et al.* (See Minot, Hiram P., assignor.)						
Minot, Hiram P., assignor to C. Minot, Columbus, Ohio, and S. Watson, Cambridge City, Ind. Ore-separator	273,583	Mar. 6	445	120	23	911
Mitchell, Ackber O. (See Ackerman, Mitchell, and Underwood.)						
Mitchell, Albert S. (See Mulligan, George, assignor.)						
Mitchell, Alexander, Wilkes-Barré, Pa. Spark-arrester	280,064	June 26	1794	504	23	2451
Mitchell, Ardon M., assignor of one-half to A. Ebbes, Fort Lee, N. J. Sleigh	278,447	May 29	2410	657	23	2070
Mitchell, C. H. (See Grace, William, assignor.)						
Mitchell, Charles, Poughkeepsie, N. Y. Machinery for cutting and mitering printers' rules	271,349	Jan. 30	1890	547	23	381
Mitchell, Charles, Shenandoah, Iowa. Seed-planter	276,266	Apr. 24	1788	497	23	1557
Mitchell, George E., Brooklyn, N. Y. Pad or pillow for the use of travelers	270,242	Jan. 9	493	145	23	107
Mitchell, Gove, Langhorn, Pa. Elevator	272,970	Feb. 27	1761	492	23	769
Mitchell, Isabel M., Philadelphia, Pa. Preserving food	277,768	May 15	1541	418	23	1904
Mitchell, J. Henry, Philadelphia, Pa. Icing-machine for confectionery	271,897	Feb. 6	372	103	23	506
Mitchell, J. Henry, Philadelphia, Pa. Machinery for ornamenting cakes, &c	271,898	Feb. 6	374	103, 104	23	507
Mitchell, J. Henry, Philadelphia, Pa. Machinery for the manufacture of matches	284,650	Sept. 11	599	169, 170	24	1012
Mitchell, J. Henry, Philadelphia, Pa. Manufacture of friction-matches	284,651	Sept. 11	602	.....	24	1012

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Mitchell, Jacob, Reading, Mass. Tea-pot	275,246	Apr. 3	462	129	23	1305
Mitchell, James, Bill, Ga. Turpentine-scraper	281,110	July 10	947	265	24	174
Mitchell, James B., Los Angeles, Cal. Fountain-pen	284,318	Sept. 4	196	55	24	938
Mitchell, James C., assignor of two-thirds to J. A. Smith and A. R. Tinkham, Lancaster, N. H. Car-coupling	285,145	Sept. 18	1223	344	24	1127
Mitchell, John E., Winfield, Kans. Washing-machine	281,111	July 10	948	265	24	175
Mitchell, John E., Fowler, assignor of one-half to A. D. Raub, Earl Park, Ind. Shovel for cultivators	272,301	Feb. 13	882	247	23	606
Mitchell, John S., Newark, N. J. Hame	287,954	Nov. 6	206	60	25	543
Mitchell, Lewis T., Galt, Cal. Portable stacking-derrick	275,689	Apr. 10	1072	292	23	1417
Mitchell, N. Chapman, Philadelphia, Pa. Rubber compound	290,909	Dec. 25	1953	.....	25	1252
Mitchell, Obed H., Springfield, Mo. Lever-derrick	281,639	July 17	1623	444	24	296
Mitchell, Obed H., Springfield, Mo. Lever-derrick	290,786	Dec. 25	1800	497, 498	25	1226
Mitchell, Oscar C. (See Mitchell, Wray and O. C.)						
Mitchell, Otis M., Marathon, N. Y. Blackboard	281,112	July 10	949	266	24	175
Mitchell, Phillipp. (See Mahar, Michael W., assignor.)						
Mitchell, Tobias P., Haverhill, Mass. Boot or shoe	290,460	Dec. 18	1374	379	25	1144
Mitchell, William, New York, N. Y. Fishing-rod	270,460	Jan. 9	770	225	23	159
Mitchell, William F., Williams, assignor to himself and H. S. Darr, Leesville, Ind. Buckle	289,684	Dec. 4	387	111	25	955
Mitchell, William H., Boston, Mass. Dividers or compasses	280,390	July 3	63	17	24	4
Mitchell, William H., Boston, Mass. Calipers and dividers	286,469	Oct. 9	858	233	25	167
Mitchell, William S., Washington, D. C. Mechanism for propelling vehicles	271,899	Feb. 6	378	104, 105	23	507
Mitchell, Wray and O. C., Rapids, N. Y. Unloading hay and grain in barns	274,010	Mar. 13	982	269	23	1010
Mitchelson, Edward J., Saybrook, Ohio. Sap-feeder	290,910	Dec. 25	1954	539	25	1252
Mitscherlich, Alexander, Münden, Prussia, Germany. Preparing cellulose from wood	284,319	Sept. 4	198	56	24	938
Mix, Eugene M. and J. E., Buffalo, N. Y. Latch	283,268	Aug. 14	957	266, 267	24	678
Mix, Frank W. (See Spiegel, Henry L., assignor.) (Reissue)						
Mix, Frank W., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Lock	281,713	July 24	1729	469	24	319
Mix, Frank W., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Trunk-lock	285,916	Oct. 2	176	50, 51	25	34
Mix, Frank W., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Cabinet-lock	286,327	Oct. 9	697	186	25	137
Mix, Frederick J., Newark, N. J. Shoe-fastener	281,909	July 24	1986	544	24	365
Mix, James E. (See Mix, Eugene M. and J. E.)						
Mixer, William M. (See De La Vergne and Mixer.)						
Mixer, William M., New York, N. Y. Oil-saving contrivance	284,752	Sept. 11	732	205	24	1035
Mixer, William M., New York, N. Y. Ice-machine	290,911	Dec. 25	1955	539, 540	25	1252
Mixter, Calvin S. (See Hiester, Charles E., assignor.)						
Mize, Edward. (See Collins, Erasmus B., assignor.)						
Mizenes, Samuel H. (See Simmons, Myron E., assignor.)						
Mlinarich, Gioseppe I. P., Del Rio, Tex. Nut-lock	277,769	May 15	1542	419	23	1904
Mock, Eugene A. (See Kemp and Mock.)						
Mock, Severin, Providence, R. I. Spinning-mule	288,841	Nov. 20	1321	362, 363	25	752
Model Machine Company. (See Mullins, Joshua C., assignor.)						
Model Machine Company. (See Osborn, Adelbert E., assignor.)						
Modes & Brauer. (See Pannster, Gustav, assignor.)						
Moebs, George, Detroit, Mich. Machine for bunching cigars	288,355	Nov. 13	709	194	25	639
Moehl, Daniel, V. Pausch, and L. Moehl, Columbus, Ohio. Wagon-seat	283,803	Aug. 28	1616	455	24	817
Moehl, Louis. (See Moehl, Pausch, and Moehl.)						
Moeller, Carl W., and M. Schmid, Chicago, Ill.; said Moeller assignor to said Schmid. Machine for making picture-moldings	285,646	Sept. 25	1812	516, 517	24	1241
Moeller, Henry F., Davenport, Iowa. Washing-machine	273,584	Mar. 6	447	120	23	911
Moeller, Jacob E., Centralia, Ill. Railway-rail joint	289,298	Nov. 27	1873	520	25	861
Moenke, Johann. (See Rohne and Moenke.)						
Moesiein, Valentine, New York, N. Y. Hat-sewing machine	275,067	Apr. 3	246	68	23	1268
Moessinger, Philip. (See Oliver, John L., assignor.)						
Moffat, John A., Hamilton, Ontario, Canada. Potato-peeling machine	273,125	Feb. 27	1949	547	23	803
Moffatt, Richard R., Brooklyn, N. Y. Electric-arc lamp	286,144	Oct. 2	445	121	25	83
Moffet, John, New York, N. Y. Rotary steam-pump	276,857	May 1	414	110	23	1699
Moffet, John, New York, N. Y. Fire-escape	285,296	Sept. 18	1390	393	24	1159
Moffitt, Arthur L., *et al.* (See Thatcher and Johnson, assignors.)						
Moffitt, John, Chicago, Ill. Medicine-spoon	285,054	Sept. 18	1110	309	24	1108
Moffitt, John A., Arlington, Mass. Carbon electrode for electric lights	281,285	July 17	1179	.....	24	223
Mogren, Axel, Worcester, Mass. Annealing-furnace	285,426	Sept. 25	1556	438	24	1193
Mohr, Paul. (See Williams, William H., assignor.)						
Moise, Lionel H., San Francisco, Cal. Type-holding attachment for hand-stamps	280,652	July 3	376	105	24	66
Moldenhauer, Fredrick W., Ashippun, Wis. Horseshoe attachment for marshy ground	280,216	June 26	1963	553	23	2483
Mole, Alfred B. (See Cadigon, Edward, assignor.)						
Molecular Telephone Company. (See Bartlett and Waite, assignors.)						
Molecular Telephone Company. (See Waite, Henry E., assignor.)						
Molecular Telephone Company. (See Waite and Bartlett, assignors.)						
Molendo, Hermann, New York, N. Y. Fire-extingnishing apparatus	285,146	Sept. 18	1224	344	24	1127
Molera, Eusebius J., and J. C. Cebrian, San Francisco, Cal. Speed-regulator and reversing device for electric motors	275,842	Apr. 17	1277	351	23	1459
Molera, Eusebius J., and J. C. Cebrian, San Francisco, Cal. Apparatus for making carbon plates	278,355	May 29	2297	628	23	2049
Molera, Eusebius J., assignor to J. C. Cebrian, San Francisco, Cal. Device for magnetizing the tires of drive-wheels of locomotives	288,356	Nov. 13	710	195	25	639
Moll, Gustav H., St. Louis, Mo. Umbrella	284,043	Aug. 28	1924	538	24	871
Moll, William. (See Scherer, Moll, and Marsh.)						
Moller, William, Yonkers, N. Y. Amalgamator	272,741	Feb. 20	1460	410	23	710
Moller, William, Yonkers, N. Y. Amalgamator	272,742	Feb. 20	1461	410	23	711
Molloy, Bernard C., London, England. Method and apparatus employed in extracting gold and silver from their ores and in forming amalgams	290,259	Dec. 18	1094	305	25	1096
Moncur, James, Owen Sound, Ontario, Canada. Lantern	275,509	Apr. 10	843	228	23	1378
Moncur, James, Owen Sound, Ontario, Canada. Lantern	285,147	Sept. 18	1226	344	24	1127
Monell, Ira F., Crisman, Colo. Ore-sizing apparatus	270,825	Jan. 16	1234	356	23	256
Monfort, Edgar A., New York, N. Y. Cartridge	276,451	Apr. 24	2033	564	23	1599

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Morgan, Dayton S. (See Bordwell, Joseph, assignor.)						
Morgan, Dewitt C., and C. H. French, assignors of one-third to N. N. Kent, Lynn, Mass. Thread-delivery attachment for sewing-machines	285,148	Sept. 18	1227	344	24	1128
Morgan, Edgar H. and C., Freeport, Ill. Thill-supporter	280,942	July 10	753	209	24	138
Morgan, Edgar H. and C., Freeport, Ill. Grinding-mill	281,911	July 24	1987	544	24	365
Morgan, Edgar H. and C., assignors to M. Lawver, A. and A. Morgan, Freeport, Ill. Feed-grinding mill	270,826	Jan. 16	1235	356	23	257
Morgan, Edgar H. and C., assignors to M. Lawver, A. and A. Morgan, Freeport, Ill. Thill-supporter	273,877	Mar. 13	829	224	23	984
Morgan Envelope Company. (See Slater, William D., assignor.)						
Morgan, George C., Chicago, Ill. Boiler	280,392	July 3	65	17	24	14
Morgan, George F. G., San Francisco, Cal. Sandal	288,653	Nov. 20	1091	299	25	712
Morgan, James E., Hickman County, Ky. Water-elevator	278,582	May 29	2562	700	23	2097
Morgan, John H. (See Morgan, Hayden, and Morgan.)						
Morgan, John R., Alliance, Ohio. Car-wheel	278,726	June 5	66	20	23	2136
Morgan, John T., *et al.* (See Hayden, Henry F., assignor.)						
Morgan, John T., Selma, Ala., H. F. Hayden, and J. H. Morgan, Washington, D. C. Reducing and smelting metals and apparatus therefor	290,343	Dec. 18	1206	338	25	1115
Morgan, Joseph S., *et al.* (See Schreiber, Charles W., assignor.)						
Morgan, Lemuel. (See Sweeney, Peter, assignor.)						
Morgan, Lyman, Port Washington, Wis. Machine for cleaning flaxseed	282,211	July 31	2380	655	24	435
Morgan, Lyman, Port Washington, Wis. Snow-plow	283,011	Aug. 14	640	181	24	621
Morgan, Oliver P., Hazelton, Mich. Power-press	272,303	Feb. 13	883	247	23	606
Morgan, Richard J., Orlando, Fla. Fruit-picker	288,096	Nov. 6	382	108	25	574
Morgan, Richard P., Jr., Dwight, Ill. Railway-rail joint	280,654	July 3	378	106	24	67
Morgan, Robert, Stockton, Cal. Cork-extractor	270,095	Jan. 2	307	91	23	63
Morgan, Robert W., Lynchburg, Va. Charge retainer and concentrator for cartridges	287,151	Oct. 23	1734	475	25	335
Morgan, Samuel M., Kingsland, county of Middlesex, England. Dust-ring for watches	287,152	Oct. 23	1734	475	25	335
Morgan, Thomas R., Sr., Alliance, Ohio. Crane	290,260	Dec. 18	1096	305, 306, 307, 308, 309	25	1096
Morgan, Thomas R., Sr., Alliance, Ohio, assignor to W. D. Wood, Pittsburg, Pa. Machine for bending sheet-metal fence-posts	283,269	Aug. 14	958	267	24	678
Morgan, Thomas R., G. Ruf, and D. Davis, Jackson, Ohio. Car-coupling	286,054	Oct. 2	337	93	25	62
Morgan, William C. (See Worthen, Edgar C., assignor.)						
Morgan, William F., *et al.* (See Morgan, Albert H., assignor.)						
Morin, Charles D., Woodland, Cal. Combination ice-chest and reservoir	271,100	Jan. 23	1573	453	23	318
Moritz, Leopoldt, Newport, Ky., assignor to Mosler, Bahmann & Co., Cincinnati, Ohio. Coupling device for safe-spindles	269,953	Jan. 2	156	46	23	33
Morlan, Albert G., and W. N. McKeehen, assignors one-third to W. W. Wilkinson, Fremont, Ind. Washing-machine	279,877	June 19	1556	435	23	2404
Morley, Albert. (See Pardee and Morley.)						
Morley, James H., Holyoke, assignor to Morley Sewing Machine Company, Boston, Mass. Heavy-fabric sewing-machine	270,971	Jan. 23	1420	409, 410, 411	23	293
Morley Sewing Machine Company. (See Morley, James H., assignor.)						
Morrell, James A., New York, N. Y. Manufacturing sugar	280,943	July 10	754	.....	24	138
Morrell, James A., New York, N. Y., assignor to R. Rathbone. Evaporator	281,912	July 24	1989	545	24	365
Morrell, Robert, Montclair, N. J. Roller grinding-mill	283,639	Aug. 21	1403	393	24	767
Morrell, Robert, Summit, N. J. Fire-engine	285,055	Sept. 18	1111	310	24	1108
Morrill, Charles. (See Arnold and Morrill.)						
Morrill, Charles, New York, N. Y. Drill-chuck	274,135	Mar. 20	1146	316	23	1045
Morrill, Charles, New York, N. Y. Eyeleting-punch	279,493	June 12	1103	304	23	2318
Morrill, Charles, New York, N. Y. Joint for dividers and calipers	284,045	Aug. 28	1926	539	24	871
Morrill, Charles, New York, N. Y. Sash-fastener	284,046	Aug. 28	1927	539	24	872
Morrill, Charles E. (See Logue, Jones, and Morrill.)						
Morrill, George P., Canterbury, N. H. Ax and tool handle guard	279,592	June 19	1217	337	23	2344
Morrill, George P., Canterbury, N. H. Ax and tool handle guard	289,193	Nov. 27	1667	462	25	892
Morrill, Osgood, Salisbury, Mass. Jump-seat carriage	274,633	Mar. 27	1800	500	23	1167
Morrill, Osgood, Salisbury, Mass. Jump-seat carriage	278,583	May 29	2563	700	23	2097
Morrill, Silas H., Geneva, N. Y. Steam-radiator	287,770	Oct. 30	2549	686	25	493
Morris, A. Hamilton, and N. Finck, Elizabeth, N. J.; said Finck assignor to said Morris. Combined carpet-stretcher and tack-driver	287,562	Oct. 30	2251	611	25	438
Morris Augustus, Cincinnati, Ohio. Machine for cutting shoe-button-fly scallops	281,113	July 10	950	266	24	175
Morris, Augustus, Youngstown, N. Y. Plow-standard	289,437	Dec. 4	78	22	25	900
Morris, Benjamin W., and N. Weaver, Circleville, Ohio. Card table and counter combined	280,655	July 3	379	106	24	67
Morris, Benjamin W., and W. H. Rodgers, Circleville, Ohio. Whip-socket	288,721	Nov. 20	1184	323	25	727
Morris, Burrel, Newton Factory, Ga. Combined cotton planter and cultivator	271,101	Jan. 23	1574	453	23	319
Morris, Charles N., Cincinnati, Ohio. Grinding and graining device	279,001	June 5	470	129	23	2204
Morris, Charles W., Lowestoft, county of Suffolk, England. Rowlock	283,640	Aug. 21	1405	393	24	767
Morris County Machine and Iron Company. (See Bennett, Charles A., assignor.)						
Morris, Edward L., Boston, Mass. Toy savings-bank	275,068	Apr. 3	248	68	23	1268
Morris, Edward L., Boston, Mass. Vise	288,722	Nov. 20	1185	323	25	727
Morris, Edwin. (See Dean, Cyrus S., assignor.)						
Morris, Frederick, San Francisco, Cal. Amalgamator and settler	278,035	May 22	1859	507	23	1965
Morris, George M., Cohoes, assignor of one-half to W. I. Bleakley, Lansingburg, N. Y. Binder for sewing-machines	274,634	Mar. 27	1801	501	23	1167
Morris, George M., Cohoes, assignor of one-half to W. I. Bleakley, Lansingburg, N. Y. Trimming attachment for sewing-machines	276,860	May 1	419	112	23	1700
Morris, George M., Cohoes, assignor of one-half to W. I. Bleakley, Lansingburg, N. Y. Lifting and rotating presser-foot device	289,687	Dec. 4	391	112	25	955
Morris, George M., assignor of one-half to G. A. House, Cohoes, N. Y. Sewing-machine attachment for sewing on buttons	289,686	Dec. 4	389	111, 112	25	955
Morris, James. (See Wilcox, Edward M., assignor.)						
Morris, James A., Boston, Mass. Nursing bottle and nipple	280,656	July 3	380	106	24	67
Morris, James M., Bradford, Ill. End-gate for wagons	274,018	Mar. 13	990	271	23	1012
Morris, John B. (See Morris Robert E. and J. B.)						
Morris, John B., New York, N. Y. Fire-escape	289,924	Dec. 11	690	193	25	1014
Morris, John B., assignor of one-half to T. S. Ireland, Cincinnati, Ohio. Knob attachment	283,718	Aug. 21	1506	424	24	786
Morris, John H. and T. D., Seward, Nebr. Combination-lock	269,954	Jan. 2	157	46	23	33
Morris, John H. and T. D., Seward, Nebr. Animal-trap	288,182	Nov. 6	481	133	25	591
Morris, John H. and T. D., Seward, Nebr., assignors to F. F. Adams Company, Erie, Pa. Animal-trap	287,387	Oct. 23	2030	552	25	387

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Morris, Marion A. (See Goodyear and Morris.)						
Morris, Owen H., New Haven, Conn. Horse-collar fastening	279,177	June 12	713	194	23	2255
Morris, Presley W., Ritchie Court-House, W. Va. Attachment for car-seats	290,344	Dec. 18	1208	338	25	1116
Morris, Robert C., Olney, Ill. Journal-box cooler	284,568	Sept. 4	499	140	24	988
Morris, Robert E. and J. B., Wichita, Kans. Machinery for making fences	290,699	Dec. 25	1687	464, 465	25	1204
Morris, Thomas D. (See Morris, John H. and T. D.)						
Morris, William B., San Francisco, Cal. Railway-crossing barrier or gate	271,102	Jan. 23	1575	453	23	319
Morris, William B., San Francisco, Cal. Railway safety-alarm	274,635	Mar. 27	1803	501	23	1168
Morris, William J., assignor to Union Hardware Company, Torrington, Conn. Roller-skate	283,915	Aug. 28	1744	492	24	840
Morris, Willis G., Council Bluffs, Iowa. Hub	286,471	Oct. 9	861	234	25	167
Morrison, Amanda, Wilmington, N. C. Market-truck	284,861	Sept. 11	884	249	24	1062
Morrison, Andrew B., Litchfield, Ill. Apparatus for lowering coffins	285,149	Sept. 18	1228	345	24	1128
Morrison, Andrew B., Litchfield, Ill. Hospital-crane	290,088	Dec. 11	887	252	25	1050
Morrison, Caroline W., assignor to F. E. Aldrich, Boston, Mass. Circular cloak	278,727	June 5	67	20	23	2136
Morrison, David S., River Styx, Ohio. Fence	271,730	Feb. 6	172	47	23	470
Morrison, Gardner L., Brooklyn, assignor to W. H. Jackson, New York, N. Y. Fire-place	275,933	Apr. 17	1381	380	23	1479
Morrison, Henry B., and G. Willett, Motley, Minn. Dry-pressing brick-machine	276,861	May 1	420	112	23	1700
Morrison, J. Frank. (See O'Sullivan, Michael J., assignor.)						
Morrison, James R., Oakdale, Ill. Box-fastener	288,067	Nov. 6	383	108	25	574
Morrison, John, Pittsburg, Pa. Chill for metallurgic furnaces	279,970	June 26	1676	471	23	2430
Morrison, John H., *et al.* (See Ring and Bradshaw, assignors.)						
Morrison, John W., Omaha, Nebr. Machine for wetting paper	289,688	Dec. 4	392	112	25	956
Morrison, Richard J., *et al.* (See Ryan, Patrick, assignor.)						
Morrison, Robert, St. Louis, Mo. Composition for self-lubricating packing	285,648	Sept. 25	1815	517	24	1241
Morrison, Robert T., Jr., Medina, Ohio. Car-coupling	287,702	Oct. 30	2453	660	25	476
Morrison, William A., Cambridge, Mass. Method of and device for preparing and packing bran, &c.	281,288	July 17	1182	326, 327	24	223
Morrison, William J., Nashville, Tenn. Manufacturing lard	278,166	May 22	2018	555	23	1993
Morriss, S. J. (See Wright, William H., assignor.)						
Morrow, Jerry, Jackson, Ohio. Weighing and dumping machine	283,641	Aug. 21	1405	393, 394	24	767
Morrow, W. H., *et al.* (See Rice, Joel F., assignor.)						
Mors, William H., and J. C. Cross, Brooklyn, N. Y. Wood-splitting machine	280,657	July 3	381	107	24	67
Morse, Dathan. (See Snyder and Morse.)						
Morse, E. Flut, Ithaca, N. Y., assignor of one-fourth to H. Fitch, Jr., Jersey City, N. J. Hay elevator and carrier	288,587	Nov. 13	1003	277	25	691
Morse, Edmund A. (See Shortsleeve, David, assignor.)						
Morse, Francis E. (See Franklin, Benjamin, assignor.)						
Morse, Fred. H., assignor of one-half to J. Petrie, Mohawk, N. Y. Polishing-wheel	277,325	May 8	1013	272	23	1807
Morse, Harris, Tuttletown, Cal. Combined cutting, punching, and tire-upsetting machine	274,216	Mar. 20	1253	345	23	1065
Morse, Henry T., Boston, Mass. Folding basket	288,654	Nov. 20	1091	299	25	712
Morse, James O., deceased, (J. O. Morse, Jr., administrator,) Englewood, N. J. Expanding-trap	284,220	Sept. 4	82	23	24	919
Morse, Levi, Litchfield, Pa. Umbrella	270,827	Jan. 16	1236	357	23	257
Morse, Nathan, Akron, Ohio. Jar-holder	276,064	Apr. 17	1537	423	23	1506
Morse, Oliver, Wellesley, Mass. Roll-bar for paper-pulp engines	286,216	Oct. 9	532	146	25	108
Morse, Otis B., Great Falls, N. H. Furnace and hollow grate-bar	284,652	Sept. 11	602	170	24	1012
Morse, Roswell C., Syracuse, N. Y. Two-wheeled vehicle	274,636	Mar. 27	1805	501	23	1168
Morse, Russell S., East Dixfield, Me. Staddle for drying beans	270,970	Jan. 23	1419	408, 409	23	293
Morse, Samuel S. (See Cowley and Morse.)						
Morse, Stephen A., San Francisco, Cal. Inhaler	281,114	July 10	951	266	24	175
Morse, Theodore W., assignor to W. D. Hall, Beloit, Wis. Harness and box-loop press	275,843	Apr. 17	1280	351	23	1460
Morse, Thomas G., Erie, Pa. Water-heater and circulator-boiler	279,583	June 19	1218	338	23	2345
Morse Twist Drill and Machine Company. (See Morton, James A., assignor.)						
Morton, Alexander, Glasgow, county of Lanark, Scotland. Valve-gear for steam-engines	274,810	Mar. 27	2006	558, 559	23	1203
Morton, Alexander, Glasgow, county of Lanark, Scotland. Valve-gear	281,548	July 17	1506	414, 415	24	277
Morton, Benjamin, Toronto, Ontario, Canada. Hammock	285,299	Sept. 18	1395	394	24	1159
Morton, Benjamin, and A. Tilley, Toronto, Ontario, Canada. Securing slabs of veneering to buildings	283,012	Aug. 14	641	181	24	621
Morton, D. A. (See Ramsey, George W., assignor.)						
Morton, Edwin W., White Plains, N. Y. Stylographic fountain-pen	277,149	May 8	810	213	23	1771
Morton, Ephraim S., Plymouth, Mass. Surfacing tacks, &c., with copper	289,754	Aug. 7	338	.....	24	559
Morton, James A., assignor to Morse Twist Drill and Machine Company, New Bedford, Mass. Apparatus for assorting straight and crooked wire	290,700	Dec. 25	1689	465	25	1205
Morton, Joshua B. (See Smith and Morton.)						
Morton, Walter S., St. Paul, Minn. Excavating-machine	287,563	Oct. 30	2253	611, 612	25	439
Morton, William J., New York, N. Y. Fluid-motor	271,257	Jan. 30	1763	511	23	358
Mosby, William W. (See Garrett, Henry, assignor.)						
Moschcowitz, Schamu M., New York, N. Y. Adjustable dress-form	274,958	Apr. 3	99	27, 28	23	1242
Moschcowitz, Schamu M., New York, N. Y. Heel for boots or shoes	288,842	Nov. 20	1323	363	25	753
Moseley, William H., Derby, county of Derby, England. Check or valve	286,472	Oct. 9	862	234	25	167
Mosely, George W. (See Kidder, Jephther P., assignor.)						
Moser, Richard. (See Pflüger, Albert, assignor.)						
Moser, Richard, Berlin, Germany. Leaf for photograph-albums	290,648	Dec. 18	1615	444	25	1185
Moses, Abraham R. B., New York, assignor to L. Moses, Brooklyn, N. Y. Hat or other head-covering	272,147	Feb. 13	700	192	23	573
Moses, Frank D., Indianapolis, Ind. Apparatus for the manufacture of illuminating or heating gas	274,637	Mar. 27	1805	502	23	1168
Moses, Joseph, Lapeer, Mich. Wagon	281,913	July 24	1990	545	24	365
Moses, Lionel. (See Moses, Abraham R. B., assignor.)						
Moses, Otto A., New York, N. Y. Voltaic-arc light	276,702	May 1	212	55	23	1660
Moses, Otto A., New York, N. Y. Voltaic-arc lamp	276,703	May 1	215	55, 56	23	1661
Moses, Otto A., New York, N. Y. Voltaic-arc lamp	276,704	May 1	217	56	23	1661
Moses, Otto A., New York, N. Y. Voltaic-arc lamp	276,705	May 1	218	56	23	1662
Moses, Otto A., New York, N. Y. Voltaic-arc lamp	286,953	Oct. 16	1479	406	25	281
Mosher, George D., Birmingham, Conn. Rope-hitch	283,719	Aug. 21	1507	425	24	786
Mosher, George D., Birmingham, Conn. Snap-hook	283,720	Aug. 21	1507	425	24	786
Mosher, Nelson, East Venice, N. Y. Churn-motor	275,691	Apr. 10	1073	293	23	1418
Mosher, Samuel E., Chillicothe, Ohio. Knights-Templar cross	289,851	Dec. 11	603	168	25	999

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Mosher, William, Poughkeepsie, N. Y. Flour and meal bolt	285,761	Sept. 25	1963	556	24	1966
Mosler, Bahmann & Co. (See Moritz, Leopoldt, assignor.)						
Mosler, Moses, Cincinnati, Ohio. Fire-proof safe	273,585	Mar. 6	448	120	23	911
Mosler, Moses, Cincinnati, Ohio. Fire-proof safe	281,640	July 17	1624	444	24	296
Mosler, Moses, Cincinnati, Ohio. Bending angle-iron	283,136	Aug. 14	787	221	24	647
Mosler, Moses, Cincinnati, Ohio. Door for fire-proof safes	287,955	Nov. 6	207	60	25	544
Mosler, Moses, Cincinnati, Ohio. Safe-door	289,124	Nov. 27	1668	463	25	822
Mosler, Moses, and M. Hemler, assignors to Mosler Safe and Lock Company, Cincinnati, Ohio. Safe	284,047	Aug. 28	1929	539	24	872
Mosler Safe and Lock Company. (See Hemler, Michael, assignor.)						
Mosler Safe and Lock Company. (See Mosler and Hemler, assignors.)						
Moss, John C., Roseton, Tex. Hay-knife	278,584	May 29	2564	700	23	2097
Moss, John M., Patricroft, county of Lancaster, England. Transferring designs	272,575	Feb. 20	1254	.....	23	674
Mossgrove, Oliver P., Steubenville, Ohio. Car-coupling	280,502	July 3	206	54	24	37
Mossop, Thomas A. (See Mills and Mossop.)						
Moth, Morris J. (See Powers, Jay W., assignor.)						
Motiron, Pierre, Paris, France, assignor to Société Anonyme des Corderies Parisiennes. Capstan or drawing-off device for spinning and rope-making machinery	281,388	July 17	1307	362	24	944
Motley, Dandridge P., Rexburg, Va. Wheat-cleaner	281,115	July 10	952	266	24	175
Motley, Francis F., assignor to Reynolds & Co., New Haven, Conn. Screw-machine	289,125	Nov. 27	1669	463	25	822
Motley, George H., Oxford, Me. Belt-shifter	280,847	July 10	634	178	24	118
Motley, Thornton, *et al.* (See Wass, Dyson D., assignor.)						
Mott, Asher, Barclay, Kans. Washing-machine	281,116	July 10	953	267	24	175
Mott, Charles M. (See Howe, Peter R., assignor.)						
Mott, Edward H., Chicago, Ill. Railway-car ventilator	270,603	Jan. 16	960	278	23	205
Mott, George A., assignor to H. Brewster, J. W. and C. M. Britton, New York, N. Y. Vehicle-axle	289,689	Dec. 4	394	113	25	956
Mott Iron Works, J. L. (See Demarest, John, assignor.)						
Mott Iron Works, J. L. (See McFarland, Samuel G., assignor.)						
Mott Iron Works, J. L. (See Reid, John, assignor.)						
Mott, Jordan L., Jr., New York, N. Y. Cartridge-loading machine	283,804	Aug. 28	1616	455	24	817
Mott, Lorenzo D., Jr., Marshalltown, Iowa. Compound for preserving wood and metal	284,653	Sept. 11	603	.....	24	1012
Mott, Samuel D. (See Fiske and Mott.)						
Mott, Samuel D, Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescing electric lamp	283,270	Aug. 14	960	267	24	678
Motte, Ellis L., *et al.*, trustees. (See Chase, Edward M., assignor.)						
Monhot, Emile, Wood Haven, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Attachment of handles to sheet-metal vessels	282,007	July 24	2097	575	24	383
Mould, William, Saugerties, N. Y. Tombstone	274,638	Mar. 27	1807	502	23	1169
Moulder, Oliver L., *et al.* (See Ball, Wilber W., assignor.)						
Moulton, Edmund T., Providence, R. I. Depositor's bank-book	287,045	Oct. 23	1602	441	25	309
Moulton, Fordyce M., assignor to S. B. Ives, Vergennes, and H. Norton, Addison, Vt. Road-making machine	281,715	July 24	1731	470	24	319
Moulton, Hamilton L., assignor to J. Smith Woolen Machinery Company, Philadelphia, Pa. Clutching, unclutching, and locking gear	270,096	Jan. 2	308	91, 92	23	63
Moulton, Hamilton L., assignor to J. Smith Woolen Machinery Company, Philadelphia, Pa. Carding-cylinder	273,878	Mar. 13	829	225	23	985
Moulton, James H., Wenham, Mass. Fastener for upper-protectors	269,875	Jan. 2	61	19	23	15
Moulton, Luther V., Grand Rapids, Mich. Machine for steaming and drying grain	286,217	Oct. 9	533	146	25	108
Moulton, Luther V., Grand Rapids, Mich. Machine for drying grain	288,357	Nov. 13	711	195	25	639
Moulton, Newland, Merrimac, Mass. Making felt uppers for shoes or slippers	275,249	Apr. 3	466	130	23	1306
Moulton, Newland, Merrimac, Mass. Felt upper for shoes or slippers	275,250	Apr. 3	466	130	23	1306
Moulton, Newland, Baltimore, Md. Making seamless open-bottom uppers for shoes	278,305	May 22	2217	607	23	2027
Moulton, Susan P., Salem, Mass. Car-coupling	277,918	May 22	1713	468	23	1941
Mount, George E., and E. Bassett, assignors to G. T. Smith Middlings Purifier Company, Jackson, Mich. Conveyer for flour-bolts, &c	288,568	Nov. 13	1006	277	25	692
Mount, Jerome C., Three Mile Bay, assignor of one-half to C. H. Hamilton, Lyme, N. Y. Paint-brush	272,896	Feb. 27	1681	470	23	756
Mount, James H., Jamesburg, N. J. Cream-puff filler	288,843	Nov. 20	1324	363	25	751
Mount, William C. (See Butler, Mount, and Alexander.)						
Mountford, James V., and W. G. Kelsall, New Haven, Conn. Rifle-sight	282,658	Aug. 7	220	64	24	538
Mower, Edwin F., Boston, assignor, by mesne assignments, to himself, O. W. and D. K. Alden, Sterling, Mass. Machinery for producing stitch-holes	270,909	Jan. 23	1340	387	23	281
Mower, Samuel E., Milford, assignor to H. G. Thompson, New Haven, Conn. Machine for making staples	290,994	Dec. 25	2076	571 572	25	1271
Mowrey, Ephraim L., Milton, Tex. Cotton-chopper	273,586	Mar. 6	448	121	23	911
Mowry, Joseph B., Mansfield, Ohio. Brick-machine	288,253	Nov. 13	573	159	25	616
Mowry, William G., Greenwich, N. Y. Vehicle-spring	290,461	Dec. 18	1375	380	25	1144
Moxham, Arthur J., assignor to Johnson Steel Street Rail Company, Louisville, Ky. Rail for street-car tracks	289,355	Nov. 27	1944	540	25	874
Moyel, Edward, Gilman, Ill. Hair mat for oil-presses	280,393	July 3	66	18	24	14
Moyer, Casper P., Woodville, Pa. Ventilating-door for mines	286,549	Oct. 9	958	258	25	184
Moyer, Frank J., assignor of one-half to E. M. Moody, Lockport, N. Y. Flying target	290,788	Dec. 25	1801	498	25	1226
Moyer, Harvey A., Syracuse, N. Y. Hub-boring machine. (Reissue)	10,360	July 31	2719	748 749	24	494
Moyer, Joseph H. (See Grunder and Moyer.)						
Moynan, Joseph, Brooklyn, N. Y. Awning	284,882	Sept. 11	885	249	24	1062
Muckenhaupt, Anthony, Poughkeepsie, N. Y. Boot and shoe indicator	274,639	Mar. 27	1808	502	23	1169
Muckle, Edward A., Rockford, Ill. Magic watch-case	275,251	Apr. 3	467	130 131	23	1306
Mudgett, George A. (See Mudgett, John, assignor.)						
Mudgett, Isaiah S., Princeton, Minn. Book-holder	279,787	June 19	1444	405	23	2385
Mudgett, John, assignor of one-half to G. A. Mudgett, South Tunbridge, Vt. Hay-tedder tooth	274,640	Mar. 27	1810	502	23	1169
Mueller, Henry A., New Haven, Conn., assignor to F. P., W. J., and M. Wiedersum, New York, N. Y. Bed-bottom	272,076	Feb. 13	611	166	23	558
Mueller, Henry A., New Haven, Conn., assignor to W. J., F. P., and M. Wiedersum, New York, N. Y. Bedstead	272,077	Feb. 13	613	166	23	558
Mueller, Louis J., Milwaukee, Wis. Sheet-metal pipe	279,494	June 12	1105	304	23	2318
Mueller, Theodore, Philadelphia, Pa. Watch-case	280,394	July 3	66	18	24	14
Mueller, Theodore, assignor to T. B. Hagstoz and C. N. Thorpe, Philadelphia, Pa. Watch-case	273,759	Mar. 13	672	180	23	957
Muench, Henry, Brooklyn, N. Y. Filtering-bag	272,576	Feb. 20	1256	350	23	674
Muhrman, Charles H., Cincinnati, Ohio. Producing ornamental cards, pictures, and transparencies	271,505	Jan. 30	2092	.....	23	417

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
William K., *et al.* (See Pavey, Samuel, assignor.)						
ad, Alexander. (See Hopkinson and Muirhead.)						
ad, Alexander, London, England. Duplex and quadruplex telegraphy	280,753	July 3	505	143, 144	24	90
ad, Alexander, London, England. Quadruplex telegraph	281,117	July 10	953	267	24	176
ad, Alexander, and G. K. Winter, London, England. Quadruplex telegraph	281,118	July 10	955	267	24	176
ad, James, Olneyville, R. I. Water-closet	288,655	Nov. 20	1092	300	25	712
d, Ichabod H., assignor of one-half to A. S. Sherwood, East Orange, N. J. Cushion arriage-windows	271,900	Feb. 6	380	105	23	507
d, John E. (See Goodfellow, James, assignor.)						
d, John E., *et al.* (See Webster, Hanson S., assignor.)						
rn, Thomas, Providence, R. I. Locomotive-tender	270,330	Jan. 9	599	177	23	127
land, Richard, Dunkirk, N. Y. Vehicle-spring	289,438	Dec. 4	79	22, 23	25	900
Watson D., *et al.* (See Evans, Harry N., assignor.)						
, Henry, and J. Noble, Jr., Westfield, Mass. Loop-fastening for whips	274,641	Mar. 27	1811	503	23	1169
, Antone, Mount Vernon, Ind., assignor of two-thirds to H. Bastnagel and H. Rits. Car-coupling	287,771	Oct. 30	2550	686	25	494
, August. (See Schubert, Maurice, assignor.)						
, Carl A., Brooklyn, N. Y. Chain for bracelets, &c	287,564	Oct. 30	2256	612	25	440
, Christian, *et al.* (See Keller and Myers, assignors.)						
, Christine F., Cologne, Germany. Window-ventilator	287,848	Nov. 6	69	21	25	519
, Conrad, Columbus, Ohio. Tool-holder for lathes	272,304	Feb. 13	884	248	23	606
, Henry L., Birmingham, England. Combined gas-engine and carbureting appara-	288,952	Nov. 20	1456	401, 402	25	778
, Jacob, New York, N. Y. Machine for separating hop-scales from their stems	285,150	Sept. 18	1229	345	24	1128
, John D., New York, N. Y. Shield for sad-irons	279,971	June 26	1677	471	23	2430
, Joseph, Nacogdoches County, Tex. Screw-cutting die	271,652	Feb. 6	80	22	23	454
, Moritz, Jr. (See Globotschnig, Felix, assignor.)						
, Teile H. (See Decastro and Müller.)						
, Teile H., and J. W. Decastro, New York, N. Y. Apparatus for separating bodies of ferent specific gravities	273,127	Feb. 27	1952	547, 548	23	803
, Teile H., and J. W. Decastro, New York, N. Y. Separating starch	273,128	Feb. 27	1954	548, 549	23	804
, Teile H., and J. W. Decastro, New York, N. Y. Apparatus for separating bodies of ferent specific gravities	273,129	Feb. 27	1956	549, 550	23	804
, William L., Muscoda, Wis. Grain thrasher and separator	280,066	June 26	1796	504, 505	23	2452
an, Charles V., assignor to Zinn & Messer, New York, N. Y. Clasp	289,690	Dec. 4	395	113	25	956
an, George, assignor of one-half to A. S. Mitchell, Taunton, Mass. Carpet-stretcher	273,130	Feb. 27	1958	550	23	805
gs, Thomas J., London, England. Wool-washing machine	285,831	Oct. 2	60	18	25	13
gs, Thomas J., London, England. Process of extracting oil and fat and oily and fatty ers from wool, &c., and the apparatus connected therewith and applicable thereto	287,786	Oct. 30	2567	690	25	497
s, Joshua C., Whitney, assignor to Model Machine Company, Waco, Tex. Appara- or trimming hoofs of animals	290,089	Dec. 11	888	252	25	1050
s, Timothy, assignor to himself and G. A. Wales, Stoughton, Mass. Shoe-maker's bench	278,254	May 22	2132	587	23	2013
, William, Great Falls, N. H. Carriage-harness	272,897	Feb. 27	1682	470	23	756
r, Daniel T., Chicago, Ill. Cartridge-box	280,067	June 26	1798	505	23	2452
, John F., Brooklyn, N. Y. Davit for boats	272,745	Feb. 20	1467	412	23	712
ler, Frederick W. (See Palmer, William A., assignor.)						
ster, Otho M., Washington, D. C. Landing-net	272,305	Feb. 13	885	248	23	607
ster, S. B., *et al.* (See Magruder, George C. W., assignor.)						
Washing Machine Company. (See Keys, Erasmus L., assignor.)						
r, Albert, Philadelphia, Pa. Detergent or compound for removing paint	271,901	Feb. 6	381	.....	23	508
chenk, Friedrich P., *et al.* (See Keller, William, assignor.)						
r, George, East River, Conn., assignor to Baker, Pratt & Co., New York, N. Y. ol-desk	277,326	May 8	1014	272	23	1807
r, Lyman F., Rochester, N. Y. Chronometer-escapement	289,551	Dec. 4	225	63	25	926
r, Theodore C., assignor of one-half to L. M. Rich, Cedar Rapids, Iowa. Pump-bucket	284,048	Aug. 28	1930	540	24	872
W. Garnett, *et al.* (See Wolfe, Harvey R., assignor.)						
Gordon, Troy, N. Y. Machine for lining straw and other board	278,448	May 29	2410	657	23	2070
Gordon, Troy, N. Y. Machine for cutting roll-paper	284,753	Sept. 11	733	205	24	1035
s, William, Worcester, Mass. Organ-reed	274,642	Mar. 27	1812	503	23	1169
n, Augustin, *et al.* (See Beck, John B., assignor.)						
n, A. M. (See Gunderson, Albert, assignor.)						
n, Albert L., New York, N. Y. Paper box	279,972	June 26	1678	471	23	2431
n, Anson L., Fresno, Cal. Paint	285,151	Sept. 18	1230	.....	24	1128
n, Anson L., Fresno, Cal. Bunching shingles	285,152	Sept. 18	1231	345	24	1128
n, Harvey S., New Haven, Conn. Paper box	288,254	Nov. 13	576	160	25	617
n, Harvey S., New Haven, Conn. Paper box	288,255	Nov. 13	578	160	25	617
n, Julius S., assignor, by mesne assignments, to K. C. Munson, Boston, Mass. Piano-	280,068	June 26	1799	506	23	2452
n, Katharine C. (See Munson, Julius S., assignor.)						
n, Louis R., Brainerd, Minn. Railway-signal	270,604	Jan. 16	963	279	23	205
n, Peter J., and G. H. Strand, Chicago, Ill. Windmill for boats	279,973	June 26	1680	471	23	2431
Wilhelm, St. Louis, Mo. Hat-shade	283,353	Aug. 14	1066	300	24	699
er, Charles, Chicago, Ill. Clamp for billiard-cues	285,360	Sept. 18	1468	413	24	1171
Chauncey M., Cincinnati, Ohio. Two-wheeled vehicle	281,783	July 24	1228	499	24	337
Chauncey M., Cincinnati, Ohio. Vehicle-spring	286,725	Oct. 16	1193	321	25	231
son, Isaac A., Manchester, N. C. Tongs	282,105	July 31	2231	613	24	412
k, Charles, New Rochelle, N. Y. Fire-escape	282,212	July 31	2381	655	24	435
k, George J., Binghamton, N. Y. Electric-lamp globe	274,959	Apr. 3	100	28	23	1242
k, George J., Binghamton, N. Y. Electric-arc light	275,510	Apr. 10	844	229	23	1378
k, George J., Binghamton, N. Y. Regulator for dynamo-electric machines	287,565	Oct. 30	2257	612, 613	25	440
k, Horace B., Detroit, Mich. Injector	281,389	July 17	1309	362	24	244
royd, Frank, Cleveland, Ohio. Mechanism for hoisting and transmitting freight, &c.	277,397	May 8	1016	272, 273	23	1807
royd, Frank, Cleveland, Ohio. Coal and ore carrier and transmitter	279,264	June 12	808	224	23	2271
royd, Frank, Cleveland, Ohio. Coal and ore carrier and transmitter	279,788	June 19	1445	405	23	2385
ey, Carrie S., Dayton, Ohio. Flexible urinal	285,056	Sept. 18	1112	310	24	1109
ey, Frank P. (See Murphey, George W. and F. P.)						
ey, George W. and F. P., Kenney, Ill. Reel for check-row wire	286,218	Oct. 9	535	146	25	109
n, Joseph, assignor of one-half to A. B. Richman, Malaga, N. J. Fruit-jar	282,916	Aug. 7	522	146	24	593
r, Albert L., assignor of one-half to S. P. M. Tasker, Philadelphia, Pa. Fagot for	274,019	Mar. 13	990	272	23	1012

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Murphy, Daniel H., Hartford, assignor to G. J. Capewell, Cheshire, Conn. Toy cap-exploder	273,879	Mar. 13	830	225	23	984
Murphy, Daniel H., Hartford, Conn., assignor of one-half to G. K. Clark, Monticello, Fla. Clothes-line	290,995	Dec. 25	2079	572	25	1271
Murphy, Daniel R., Newark, assignor of one-half to G. B. Johnson, Granville, Ohio. Locomotive	279,102	June 5	611	166	23	2227
Murphy, Edward, assignor to Kruse & Murphy Manufacturing Company, New York, N. Y. Automatic tension device for sewing-machines	290,345	Dec. 18	1209	338	25	1116
Murphy, Edward E., Jr., Tottenville, N. Y. Liquefied anæsthetic	275,511	Apr. 10	847	229	23	1379
Murphy, Edward T., assignor of one-fourth to W. J. Sheehan, East Hampton, Mass. Faucet and barrel-bung	286,954	Oct. 16	1480	406	25	281
Murphy, Jeremiah, Brooklyn, N. Y. Balanced slide-valve	277,328	May 8	1017	273	23	1807
Murphy, John, Columbus, Ohio. Hydraulic cement	270,097	Jan. 2	310	.....	23	63
Murphy, John, Brooklyn, N. Y. Belting	284,221	Sept. 4	84	23	24	919
Murphy, John, assignor of one-half to C. N. Hall, Springfield, Mass. Combined mincing-knife and meat-tenderer	281,200	July 10	1067	294	24	195
Murphy, John M., Gilmer, Ill. Windmill	279,178	June 12	714	195	23	2255
Murphy, Joseph, San José, Cal. Railway-switch	274,643	Mar. 27	1812	503	23	1169
Murphy, M. L., *et al.* (See Dutton, George W., assignor.)						
Murphy, Patrick, assignor to J. S. Foster, Merrimac, Mass. Spoke-throating machine	284,972	Sept. 11	993	280	24	1062
Murphy, Thomas D. (See Howard, Albion P., assignor.)						
Murphy, William A. C. (See Powell, Joseph M., assignor.)						
Murphy, William A. C., and J. T. Johnston, Springfield, Mo. Shutter-worker	278,585	May 29	2565	701	23	2097
Murphy, William H., Brenham, Tex. Shaker for mixed beverages	271,350	Jan. 30	1892	548	23	381
Murphy, William L., Oxford, Ohio. Fire-escape	285,832	Oct. 2	61	19	25	13
Murray, Andrew, Stamford, Conn. Wagon-brake	279,974	June 26	1681	472	23	2431
Murray, Donald J., Wausau, Wis. Swinging bridge for saw-arbors	288,589	Nov. 13	1008	277	25	692
Murray, Donald J., Wausau, Wis. Gang sawing-machine	288,723	Nov. 20	1186	324	25	727
Murray, Edward L., Atlanta, Ga., assignor of one-half to G. T. Pringle, Charleston, S. C. Combined wheel cultivator and plow	272,460	Feb. 20	1100	{310 311}	23	647
Murray, George, Jr., Cambridgeport, assignor of one-half to C. Morgan, Melrose, Mass. Gearing	286,550	Oct. 9	959	258	25	185
Murray, George, Jr., Cambridgeport, assignor of one-half to C. Morgan, Melrose, Mass. Air-trap for water-engines	286,551	Oct. 9	960	258	25	185
Murray, Gordon, and M. A. Gibbs, Negaunee, Mich. Apparatus for thawing giant-powder and nitro-glycerine	276,862	May 1	422	113	23	1700
Murray, Gordon, and M. A. Gibbs, Negaunee, Mich. Apparatus for thawing giant-powder and nitro-glycerine	276,863	May 1	423	113	23	1700
Murray, James W., Halifax, Nova Scotia, Canada, assignor to C. S Crain and D. Dorchester, Jr., Newton, Mass. Machine for turning and boring spools	280,755	July 3	512	144	24	91
Murray, John. (See Winterbottom and Murray.)						
Murray, John, New York, N. Y. Toy wagon	272,461	Feb. 20	1102	312	23	648
Murray, Laura A. (See Clark, Charles W., assignor.)						
Murray, Maurice M., assignor of one-half to A. G. Black, Coulterville, Cal. Fountain	277,598	May 15	1339	360	23	1867
Murray, Peter, Jr., assignor of one-half to T. J. Dennis, Newark, N. J. Differential pulley-block	280,218	June 26	1964	553	23	2483
Murray, Robert A. (See Banning Carina B., assignor.)						
Murray, Robert A., St. Louis, Mo. Piano sounding-board	290,090	Dec. 11	889	252	25	1050
Murray, William A. (See Whittingham, Charles and J., assignors.)						
Murrell, Rene D., Social Circle, Ga. Combined hoe	284,883	Sept. 11	886	249	24	1062
Murrill, James L. (See Painter, Murrill, and Keizer.)						
Murtfeldt, Will A., Cincinnati, Ohio. Roof for railway-cars	284,141	Aug. 28	2053	570	24	803
Muse, Samuel D., Monticello, Miss. Gate	280,754	July 3	510	144	24	90
Musil, Eduard, Vienna, Austria-Hungary. Manufacture of yellow-fibered paper for bank notes, checks, &c	282,106	July 31	2231	.....	24	412
Musser, William R. (See Allen and Musser.)						
Mustard, James E. (See Hall and Mustard.)						
Mutter, Wilhelm, Syracuse, N. Y. Flux for welding metals	282,464	July 31	2701	.....	24	491
Muttersbach, John P., Hicksville, Cal. Two-wheeled vehicle	285,153	Sept. 18	1231	346	24	1128
Mutton, Samuel S. (See Lewin, John M., assignor.)						
Muybridge, Edward J., San Francisco, Cal. Method of and apparatus for photographing changing or moving objects	279,878	June 19	1557	{435 436}	23	2404
Myer, Frank X., Jr., Logan, assignor to himself and C. O. Myers, Hocking County, Ohio. Wheel	270,461	Jan. 9	771	226	23	160
Myer, Isaac, Philadelphia, Pa., and S. K. Bayley, Boston, Mass. Refrigerating chamber, car, and apparatus	277,150	May 8	811	{213 214}	23	1771
Myers, Alvie, Melmore, Ohio. Saw-mill dog	284,973	Sept. 11	995	280	24	1062
Myers, Andrew G. (See McSherry and Myers.)						
Myers, Andrew G., New York, N. Y. Water-closet	274,644	Mar. 27	1814	503	23	1170
Myers, Benjamin F., Hunnewell, Ky. Combined can, pump, and measure	275,934	Apr. 17	1383	380	23	1479
Myers, Bruce M., and W. H. H. Williams, Fostoria, Ohio. Form for bending wood	283,412	Aug. 21	1139	322	24	718
Myers, Charles H., Clifton Springs, N. Y. Thill-adjuster	278,449	May 29	2412	657	23	2070
Myers, Charles H., Phelps, N. Y. Window-bead fastener	280,756	July 3	514	145	24	91
Myers, Charles H., Phelps, N. Y. Cutter-bar for mowers and reapers	285,361	Sept. 18	1467	413	24	1171
Myers, Charles H., Phelps, N. Y. Wrench	288,098	Nov. 6	384	108	25	574
Myers, Charles O. (See Myer, Frank X., Jr., assignor.)						
Myers, Christian W. (See Keller and Myers.)						
Myers, David E., Indianapolis, Ind. Mechanical movement	280,757	July 3	515	145	24	91
Myers, Edward. (See Smith and Myers.)						
Myers, F. E., *et al.* (See Stentz, Michael, assignor.)						
Myers, Francis E. (See Myers, Philip A., assignor.)						
Myers, Frank, Aurora, Nebr. End-gate	278,167	May 22	2019	555	23	1993
Myers, Frederick, New York, N. Y. Machine for trimming box material	280,219	June 26	1966	553	23	2483
Myers, Henry S., New York, N. Y. Composition for copying	287,457	Oct. 30	2121	576	25	412
Myers, John and J. E., Palestine, Tex. Cotton-harvester	286,055	Oct. 2	338	94	25	62
Myers, John E. (See Myers, John and J. E.)						
Myers, John G. L., assignor of two-thirds to H. J. Wells, Osceola Mills, and S. Hoover, Fowler, Pa. Remedy for diphtheria	271,506	Jan. 30	2093	.....	23	417
Myers, John J., Baltimore, Md. Gas-meter	281,641	July 17	1626	444	24	296
Myers, L. B. (See Bower, Isaac G., assignor.)						
Myers, Leonard N., Middleburg, Pa. Washing-machine	281,119	July 10	957	267	24	176
Myers, Lewis B. (See Bower and Myers.)						
Myers, Lewis J. (See Fowler, William R., assignor.)						
Myers, Lewis Y., Canton, Ohio. Hay-carrier	276,864	May 1	424	113	23	1700
Myers, P. A., *et al.* (See Stentz, Michael, assignor.)						
Myers, Philip A., Ashland, Ohio. Pump	276,865	May 1	426	114	23	1701

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Myers, Philip A., assignor to himself and F. E. Myers, Ashland, Ohio. Pump	282,755	Aug. 7	339	96	24	559
Myers, Theodore A., Wheeling, W. Va. Knife-grinder	288,099	Nov. 6	385	109	25	574
Myers, William H., Oregon, Wis. Harrow	288,100	Nov. 6	385	109	25	574
Myers, William J., Hartford, Conn. Bedstead	272,078	Feb. 13	615	167	23	558
Myrick, Elijah, Ayer, Mass. Carriage-jack	276,268	Apr. 24	1789	497	23	1557
Myrick, Nathan, *et al.* (See King, Josias R., assignor.)						
Nack, William, Sheboygan, Wis. Fire-escape	281,549	July 17	1508	415	24	277
Nack, William, Sheboygan, Wis. Shade-fastening spring	289,925	Dec. 11	691	193	25	1014
Nacke, Arnold, assignor to Ledig & Herrlein, Philadelphia, Pa. Screw-cutting tool	279,495	June 12	1106	305	23	2318
Nadelhoffer, John W., Naperville, Ill. Barbed fence	270,098	Jan. 2	311	92	23	63
Nadelhoffer, John W., assignor to A. Dillman and E. R. Knowlton, Joliet, Ill. Machine for making barbed wire	281,120	July 10	958	268, 269	24	176
Nadermann, Henry, Newport, Ky. Miter-wheel guard and frame	281,289	July 17	1185	328	24	223
Nagant, Léon, Liège, Belgium. Breech-loading fire-arm	286,726	Oct. 16	1193	322	25	232
Nagele, Jacob, assignor of one-half to C. C. Martin, Philadelphia, Pa.; A. M. Martin administratrix of said Martin, deceased. Wall-bracket	290,789	Dec. 25	1802	498	25	1226
Nagle, J. T., *et al.* (See Nicolaisen, Eberhardt, assignor.)						
Nance, Zachariah F., Eufaula, Ala. Cotton-cleaner and gin-feeder	287,153	Oct. 23	1736	475, 476	25	335
Naramore, Truman C., Williston, Vt. Railway rail and tie elevator and lifting-jack	276,452	Apr. 24	2034	565	23	1599
Narracong, Arthur. (See Narracong, David and A.)						
Narracong, David and A., Reedsburg, Wis. Water-wheel governor	274,811	Mar. 27	2009	559	23	1204
Nash, Allen R., and J. Sadler, Lime Spring, Iowa. Agricultural boiler	284,884	Sept. 11	887	250	24	1062
Nash, Caleb P., assignor of one-half to J. E. Jacobs, Brattleborough, Vt. Chair	275,252	Apr. 3	469	131	23	1306
Nash, Caleb P., assignor of one-half to J. E. Jacobs, Brattleborough, Vt. Chair	277,329	May 8	1018	273	23	1807
Nash, Caleb P., assignor of one-half to J. E. Jacobs, Brattleborough, Vt. Combined trunk and table	278,036	May 22	1860	508	23	1965
Nash, Edmund L., Parkersburg, W. Va. Chicken-coop	290,346	Dec. 18	1211	339	25	1116
Nash, Edmund L., and B. R. Pennybacker, Jr., Parkersburg, W. Va. Harrow	288,472	Nov. 13	871	236	25	667
Nash, John M., Hudson, Wis. Wood-boring machine	274,020	Mar. 13	992	272	23	1012
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	271,902	Feb. 6	381	105	23	508
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Combined gas-engine and air-compressor	278,168	May 22	2020	556	23	1993
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	278,255	May 22	2133	588	23	2013
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	278,256	May 22	2142	589	23	2014
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Hot-air and gas engine	278,257	May 22	2145	589	23	2014
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Rotary water-meter	280,220	June 26	1968	554	23	2483
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Water-meter	280,221	June 26	1970	554	23	2484
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Water-meter	280,222	June 26	1972	554, 555	23	2484
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Fluid-meter	280,322	June 26	2099	589	23	2506
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Water-meter	281,390	July 17	1312	363	24	245
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	289,019	Nov. 27	1537	425	25	799
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	289,691	Dec. 4	396	113, 114	25	956
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	289,692	Dec. 4	402	114, 115	25	957
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	289,693	Dec. 4	408	115, 116	25	957
Nash, Samuel M. (See Heft, Nathan H., assignor.)						
Nashua Lock Company. (See Parker, Emery, assignor.)						
Nason, George W., Brunswick, Me. Fire-alarm	278,586	May 29	2566	701	23	2097
Natchez, J. Lee, Dayton, Ohio. Reservoir cooking-stove	285,502	Sept. 25	1641	461, 462	24	1208
Nath, Joseph, Lancaster, N. Y. Rolling-pin	278,258	May 22	2148	589	23	2015
Nathan & Dreyfus. (See Fenner, James W., assignor.)						
Nathan, Sinai. (See Loeb, Adolf, assignor.)						
National Anti-Sewer Gas Company. (See Collings, Edward Z., assignor.)						
National Anti-Sewer Gas Company. (See Pike, Charles F., assignor.)						
National Automatic Car Coupler Company. (See Ingram, Edwin, assignor.)						
National Automatic Piano and Organ Manufacturing Company. (See Durkee, Alonzo, assignor.)						
National Automatic Piano and Organ Manufacturing Company. (See Pain, Robert W., assignor.)						
National Cable Power Company. (See Haddock, Worcester, assignor.)						
National Chemical Machine and Manufacturing Company. (See Carlisle, Frederick, assignor.)						
National Continuous Stone Conduit Company. (See Campbell, William M., assignor.)						
National Electric Railway Signal Company. (See Le Grande, William W., assignor.)						
National Feather Duster Company. (See Hoffman, Austin D., assignor.)						
National Interlocking Switch and Signal Company. (See Bonnell, James A., assignor.)						
National Machine Company. (See Hallenbeck, Joseph P., assignor.)						
National Meter Company. (See Nash, Lewis H., assignor.)						
National Needle Company. (See Berry, John, assignor.)						
National Saw-Guard Company. (See Kuhlmann, Henry F., assignor.)						
National Safety Car Bearing Company. (See Baker, Jackson R., assignor.)						
National Secret Telephone Company. (See Dean, Edward C., assignor.)						
National Shelf and File Company. (See Lang, John C., assignor.) (Reissue.)						
National Tube Works Company. (See McPhail, James H., assignor.)						
National Tube Works Company. (See Patterson, Peter, assignor.)						
National Waterproof Shoe Company. (See Cutten, James H., assignor.)						
National Waterproof Shoe Company. (See Moore, Lee E., assignor.)						
National Waterproof Shoe Company. (See Stetson, Charles T., assignor.)						
Nativel, Theodore C., Brooklyn, Cal. Combined refrigerater, filter, and water-cooler	277,330	May 8	1020	273	23	1808
Nauerth, George V., Cincinnati, Ohio. File for letters	271,258	Jan. 30	1765	512	23	359

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Nanman, William L. (See Iske, Anthony, assignor.)						
Nantz, James S., Shelbyville, Ill. Flexible harrow	280,848	July 10	635	179	24	118
Naylor, John, and R. Thornton, Stawell, Victoria. Rock-drill	289,300	Nov. 27	1874	520, 521	25	862
Naylor, Thomas A., Baltimore, Md. Lubricator for steam-cylinders	286,473	Oct. 9	863	234	25	167
Neacy, Thomas J., Milwaukee, Wis. Gang-edger	282,213	July 31	2382	655, 656	24	435
Neander, Theodore H., Wataga, Ill. Middlings-purifier	288,844	Nov. 20	1325	363	25	753
Neary, Philip, Dryden, N. Y. Adding-machine	276,866	May 1	429	114	23	1701
Neave, John H., Macclesfield, county of Chester, England. Method of and apparatus for finishing felt	271,351	Jan. 30	1893	548	23	381
Neblett, Sidney S., Whittle's Mills, Va. Tobacco-planter	271,507	Jan. 30	2094	602	23	417
Neblett, Sidney S., Whittle's Mills, Va. Transplanter for tobacco and other plants	275,253	Apr. 3	470	131	23	1306
Needham, Charles A. (See Hewlett and Needham.)						
Needham, Charles A. (See Needham, Elias P., assignor.)						
Needham, Charles A., *et al.* (See Needham, Orwell H., assignor.)						
Needham, Charles A., assignor to himself and E. P. Needham, New York, N. Y. Theater-stage	273,880	Mar. 13	831	225	23	984
Needham, Elias P. (See Needham, Charles A., assignor.)						
Needham, Elias P., *et al.* (See Hewlett and Needham, assignors.)						
Needham, Elias P., *et al.* (See Needham, Orwell H., assignor.)						
Needham, Elias P., assignor to himself and C. A. Needham, New York, N. Y. Mechanism for transmitting motion	274,812	Mar. 27	2010	560	23	1904
Needham, Orwell H., assignor to E. P. and C. A. Needham, New York, N. Y. Sound-board for musical instruments	274,813	Mar. 27	2012	560	23	1904
Neef, Isidor, Grofsh, Baden, Germany. Bottle-stopper	277,847	May 15	1627	443	23	1919
Neely, William A., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Trimming attachment for sewing-machines	274,095	Mar. 13	1087	299	23	1028
Neely, William A., Lynn, Mass., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Trimming mechanism for sewing-machines	286,146	Oct. 2	447	121, 122	25	83
Neerpasch, John, Rochester, N. Y. Tailor's pressing-board	272,746	Feb. 20	1467	412	23	712
Neff, Elijah, W. Enders, and J. B. Fieser; said Neff assignor of one-half to M. R. Smith, Rochester, Ind. Rotary double piston pump	275,844	Apr. 17	1281	352	23	1460
Neff, Harry M., Denver, Colo. Sleeping-car	275,935	Apr. 17	1383	381	23	1479
Neff, Joseph B., assignor to Burlington Plow Company, Burlington, Iowa. Cultivator-spring	287,703	Oct. 30	2454	661	25	476
Neff, William H., Cowan, Ind. Spring-motor	283,642	Aug. 21	1407	394	24	767
Nei, Daniel, St. Louis, Mich. Screw-driver	277,599	May 15	1340	361	23	1867
Neider, Fred A. (See Asbury, Neider, and Grossmann.)						
Neider, Fred A., Augusta, Ky. Loop for carriage-curtains	276,269	Apr. 24	1790	498	23	1557
Neider, Fred A., Augusta, Ky. Strap-fastening for carriage-curtains	282,354	July 31	2563	702	24	467
Neider, Fred A., Augusta, Ky. Carriage-curtain window	282,355	July 31	2564	702	24	467
Neider, Fred A., Augusta, Ky. Strap-buckle fastening	288,358	Nov. 13	714	195	25	640
Neidig, David A., Canton, Ohio. Handsaw	279,975	June 26	1682	472	23	2431
Neil, Michael. (See Young, Neil, and Wetzel.)						
Neilson, Alexander. (See Young and Neilson.)						
Neilson, George, Chelsea, Mass. Treating iron	281,784	July 24	1829	.....	24	337
Neilson, James A., Philadelphia, Pa. Friction-clutch	270,099	Jan. 2	311	92	23	63
Neimeyer, Jacob, Atlantic, Iowa. Compasses	275,403	Apr. 10	709	189	23	1356
Neimeyer, John, Trenton, Ohio. Saw-handle	277,502	May 15	1223	329	23	1849
Neitsch, Albert, Leipsic, Germany. Type-grinding machine	282,356	July 31	2565	703	24	467
Neitzel, Carl F. A., Concordia, Kans. Car-coupling	274,645	Mar. 27	1816	504	23	1170
Neitzel, Frank F., Winnebago Agency, Minn. Weighing apparatus for thrashing-machines	270,331	Jan. 9	600	177	23	127
Nellessen, Hermann J., Pittsburg, Pa. Millstone-ventilator	282,357	July 31	2567	703	24	467
Nellis, Aaron J., Pittsburg, Pa. Road-scraper	277,771	May 15	1543	419	23	1904
Nellis, Aaron J., Pittsburg, Pa. Heating, tempering, and annealing furnace	288,101	Nov. 6	386	109	25	574
Nellis, Charles S., assignor of one-fourth to T. P. Hull, Chittenango, N. Y. Charcoal-kiln	283,643	Aug. 21	1407	394, 395	24	767
Nelson, Albert P., Portland, Oreg. Two-wheeled vehicle	288,256	Nov. 13	580	161	25	617
Nelson, Alonzo E., Brockton, Mass. Combination-tool	280,849	July 10	635	179	24	118
Nelson, Andrew, Moline, Ill. Revolving picture-exhibitor	281,914	July 24	1990	545	24	365
Nelson, August, Kent, Ohio. Bush-hammer	271,731	Feb. 6	179	47	23	470
Nelson, Charles, East New York, N. Y. Slate-frame	281,785	July 24	1829	499	24	337
Nelson, Charles, East New York, N. Y. Slate-frame	281,786	July 24	1830	500	24	337
Nelson, Charles, East New York, N. Y. Machine for forming muffling-strips for slate-frames	281,787	July 24	1831	500	24	338
Nelson & Co., N. O. (See Reid, William A., assignor.)						
Nelson, Edward, and A. Davis, St. Paul, Minn. Metallic shield for brakemen's boots	280,223	June 26	1975	555	23	2484
Nelson, Edward W., Chicago, Ill., and E. A. Cowles, Cleveland, Ohio. Amalgamator	280,069	June 26	1800	506	23	2452
Nelson, Frederick, St. Paul, Minn. Blind-slat operator	284,222	Sept. 4	85	24	24	919
Nelson, Frederick A., Westfield, Mass. Hammock	269,876	Jan. 2	62	19	23	15
Nelson, George W., *et al.* (See Hill, Frederick D., assignor.)						
Nelson, Henry W., Ord, Nebr. Bag-holder	277,772	May 15	1544	420	23	1904
Nelson, John B., Viola, Tex. Combined cotton, corn, and pea planter and fertilizer-distributer	289,694	Dec. 4	414	116	25	958
Nelson, John L. (See Barr and Nelson.)						
Nelson, Samuel, Brooklyn, N. Y. Base for gas-burners	271,653	Feb. 6	81	23	23	454
Nelson, Samuel L., Saltillo, Miss. Churn	274,360	Mar. 20	1436	394	23	1097
Nelson & Sons, Thomas. (See Pester, Adolph, assignor.)						
Nelson, William D., New York, N. Y. Street-car heater	270,553	Jan. 9	893	258	23	184
Nelson, Magnus S., Allegheny, Pa. Propeller for steam-vessels	281,915	July 24	1991	545	24	366
Nemetz, Josef, Vienna, Austria-Hungary. Magazine-gun	273,131	Feb. 27	1959	551	23	605
Nerney, Martin J., Green Island, N. Y. Nut-lock	290,790	Dec. 25	1803	499	25	1226
Nesmith, John W. (See Havens and Nesmith.)						
Nester, Joseph, Wapakoneta, Ohio. Horseshoe	280,658	July 3	382	107	24	68
Nester, Joseph, Wapakoneta, Ohio. Horseshoe	290,091	Dec. 11	889	253	25	1051
Nethercut, George S., Geneva, Wis. Shoe-last	285,649	Sept. 25	1815	517	24	1941
Nettleton, James, Daysville, Ill. Hay-carrier	275,254	Apr. 3	471	131, 132	23	1307
Netzner, Augusta, New York, N. Y. Suspender-end	285,650	Sept. 25	1817	518	24	1942
Neuert, Charles A., Boston, Mass. Snow-guard for roofs	272,148	Feb. 13	701	192	23	573
Neuhausen, August, Chicago, Ill. Manufacture of candles, &c	271,259	Jan. 30	1766	512	23	359
Neumann & Co., R. (See Flocke, Robert, assignor.)						
Neumüller, Franz. (See Perhács and Neumüller.)						
Neustadter, David. (See Wittman, George, assignor.)						
Nevegold, Walter W., Bristol, Pa. Coupling-retainer	270,462	Jan. 9	771	226	23	160

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
r, Michael, *et al.* (See Warren, Jabez T., assignor.)						
Bartlett A. (See Ward and Lindsey, assignors.)						
J. D., *et al.* (See Lash, John S., assignor.)						
Franklin, *et al.* (See Bennet, Karl W., assignor.)						
Georgiana. (See Rockafellow and Nevins, assignors.)						
Laird W., Toledo, Ohio. Dental jaw-brace	278,259	May 22	2148	590	23	2015
Laird W., Toledo, Ohio. Inhaler	279,965	June 12	810	224	23	2272
Laird W., Toledo, Ohio. Apparatus for administering nitrous-oxide gas	283,137	Aug. 14	788	221	24	647
Peter T. B. (See Rockafellow and Nevius.)						
bert L., assignor of two-thirds to J. W. Jones and W. F. Lindley, Greenfield, Ind.						
-tree attachment	285,503	Sept. 25	1642	462	24	1209
gland Butt Company. (See McCahey, John, assignor.)						
gland Decorating Machine Company. (See Jamison, John P., assignor.)						
gland Dental Manufacturing Company. (See Cooke, William P., assignor.)						
gland Electric Manufacturing Company. (See Fisher, Israel, assignor.)						
gland Patent Fire Escape Company. (See Fairbanks, Harlan, assignor.)						
gland Patent Fire Escape Company. (See Griffin and Dixon, assignors.)						
gland Patent Fire Escape Company. (See Rowe, Edward T., assignor.)						
ven Clock Company. (See Camp, Hiram, assignor.)						
ven Clock Company. (See Rossiter, John H., assignor.)						
ven Copper Company. (See Halligan and Rugg, assignors.)						
me Sewing Machine Company. (See Huntington, Thomas S., assignor.)						
me Sewing Machine Company. (See Thomas, Eddy T., assignor.)						
cob. (See Van Hutton, William B., assignor.)						
bias, Brooklyn, N. Y. Preparing straw to be converted into paper-stock, &c	290,913	Dec. 25	1957	.....	25	1253
illiam W., Perry, Ill. Combined hay rake and loader	272,747	Feb. 20	1468	413	23	712
rld Sewing Machine Company. (See Holden and Griswold, assignors.)						
k Bung and Bushing Company. (See Thompson, Samuel R., assignor.) (Reissue.)						
rk Steam Company. (See Duffy, Thomas W., assignor.)						
George E., Flint, Mich. Presser-bar for planing-machines	273,587	Mar. 6	451	121	23	912
Machine Company. (See Grube, Jefferson, assignor.)						
Machine Company. (See Miller, Abraham, assignor.)						
g, Gustave, Chicago, Ill. Door-knob	270,828	Jan. 16	1237	357	23	257
y, Orson O., Vincennes, Iowa. Sulky	283,916	Aug. 28	1746	493	24	840
l, David M. (See Armstrong, William, assignor.)						
l, William, East Cleveland, Ohio. Bolt-guard	270,972	Jan. 23	1425	411	23	294
gh, Charles, Beloit, Wis. Pump-piston	277,919	May 22	1715	468	23	1941
gh, Henry. (See Beuttel and Braüch, assignors.)						
y, Henry F., Brooklyn, N. Y. Safe-lock	270,829	Jan. 16	1238	357	23	257
y, Henry F., Brooklyn, N. Y. Safe-lock	270,830	Jan. 16	1239	358	23	257
y, Henry F., Brooklyn, N. Y. Safe-lock	271,103	Jan. 23	1576	454	23	319
y, Henry F., Brooklyn, N. Y. Safe-lock	283,644	Aug. 21	1409	395	24	768
y, Henry F., Brooklyn, N. Y. Time-lock	283,645	Aug. 21	1411	395	24	768
y, Henry F., Brooklyn, N. Y. Mounting time-locks	284,049	Aug. 28	1931	540	24	872
y, Henry F., Brooklyn, N. Y. Mounting time-locks	284,142	Aug. 28	2055	570	24	893
Albert S., Indianapolis, Ind. Adjustable leg for folding lounges	279,789	June 19	1448	405	23	2385
James. (See Atherton and Newby.)						
William H., Columbus, Ind., assignor of one-half to J. B. Shaw, Brooklyn, N. Y.						
-dial	290,791	Dec. 25	1804	499	25	1226
b, Frederick J., Brooklyn, N. Y. Ornamenting moldings	288,473	Nov. 13	871	236	25	667
b, George L. (See Vaughn, Joseph W., assignor.)						
b, John. (See Hoover and Newcomb.)						
b, Marion W., Marysville, Kans. Photographic-plate holder	282,756	Aug. 7	341	97	24	560
b, William, Johnsonville, N. Y. Faucet-coupling	274,361	Mar. 20	1437	394	23	1097
b, William W., Bradfordsville, Ky. Car-coupling	274,960	Apr. 3	102	28	23	1242
Frederick G., Saginaw, Mich. Curtain-fixture	282,757	Aug. 7	342	97	24	560
George E., and L. G. Ladd, assignors to S. Grant & Co., Pawtucket, R. I. Hoist-						
paratus	282,556	Aug. 7	102	30, 31	24	518
George E., and L. G. Ladd, assignors to Smith, Grant & Co., Pawtucket, R. I.						
ng-bucket	290,649	Dec. 18	1615	444	25	1185
George F., Boston, Mass. Wrench	279,661	June 19	1307	363	23	2360
George H., Woodsville, N. H. Permutation-padlock	287,309	Oct. 23	1938	530	25	371
Lorenzo D., Providence, R. I. Self-leveling berth	276,867	May 1	430	115	23	1702
Nelson C., Springfield, Mass. Button	273,132	Feb. 27	1963	552	23	806
Nelson C., Springfield, Mass. Button	273,133	Feb. 27	1964	552	23	806
Nelson C., Springfield, Mass. Button	279,002	June 5	471	129	23	2204
Nelson C., Springfield, Mass. Button	290,092	Dec. 11	890	253	25	1051
William H., Williamsburg, Mass. Injector	283,013	Aug. 14	642	182	24	621
, Charles W., Jr. (See Aiken, Benjamin F., Jr., assignor.)						
, Eustis, *et al.* (See Bacon, Charles H., assignor.)						
, George M., Philadelphia, Pa. Apparatus for stirring, mixing, and melting sugar,	276,065	Apr. 17	1538	423	23	1506
, George M., Philadelphia, Pa. Centrifugal machine	278,260	May 22	2149	590	23	2015
, George M., Philadelphia, Pa. Machine for drying sugar and other substances	286,056	Oct. 2	340	94, 95	25	63
se, Frederick, and H. Mooers, Toledo, Ohio. Fire-escape	277,600	May 15	1341	361	23	1867
, Abram, Cleveland, Ohio. Insect-destroyer	287,704	Oct. 30	2455	661	25	477
l, William, Brooklyn, N. Y. Fire-escape	280,070	June 26	1801	506	23	2452
ls, Benjamin E. R. (See Duncan and Newlands.)						
Charles A. (See Wells and Newlin.)						
William, Attica, Ind. Hub	283,271	Aug. 14	961	268	24	679
William, and S. Whitehall, Attica, Ind. Making wheels for vehicles, &c	279,584	June 19	1219	338	23	2345
, Matthew, Grand Island, Neb. Chain-saw	285,651	Sept. 25	1818	518	24	1242
er, Henry, Stoneborough, Pa. Cone-pulley	283,646	Aug. 21	1413	396	24	768
, Charles H., Rochester, N. Y. Steam-packing	277,151	May 8	842	214	23	1771
, Charles H., Elmira, N. Y., assignor to Detroit Iron and Brass Manufacturing						
ny, Detroit, Mich. Waffle-iron	270,973	Jan. 23	1425	411	23	294
& Co., I. (See Bray, Morris P., assignor.)						
, Elmer P., Dimondale, Mich. Vehicle-hub	276,706	May 1	220	56	23	1662
, Isaac. (See Bowers, Alfred H., assignor.)						
, John A., Chicago, Ill. Card for teaching drawing	282,659	Aug. 7	221	65	24	538
, Joseph, Sacramento, Cal. Vehicle-seat	279,266	June 12	811	224	23	2272
, Nelson, Springfield, Ill. Sign	283,647	Aug. 21	1413	396	24	769
, Thomas C., Chicago, Ill. Fruit-squeezer	283,014	Aug. 14	643	182	24	621
, William, Sherman, Tex. Lamp	281,716	July 24	1733	470	24	320

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Newsham, Nock & Douglas. (See Douglas, John B., assignor.)						
Newsom, John B., assignor of one-half to E. Priest, Eufaula, Ala. Combined planter and cultivator	283,272	Aug. 14	962	268	24	679
Newsom, John J., Oakland, assignor of one-half to J. C. Plunkett, San Francisco, Cal. Attrition-mill	288,724	Nov. 20	1187	324	25	727
Newth, W. H. D. (See Ritchie, James, assignor.)						
Newton, Albert H., *et al.* (See Buck, James A., assignor.)						
Newton, Andrew, *et al.* (See Buck, James A., assignor.)						
Newton, Andrew C., *et al.* (See Buck, James A., assignor.)						
Newton, Edward B. (See Newton, John F., Jr., assignor.)						
Newton, James. (See Hall and Newton.)						
Newton, John, Clifford, Ind. Combined post and base	272,149	Feb. 13	702	192	23	573
Newton, John, Clifford, Ind. Fence	285,427	Sept. 25	1557	438	24	1193
Newton, John, Clifford, Ind. Railway tie and stringer	285,833	Oct. 2	62	19	25	13
Newton, John F., Jr., assignor to E. B. Newton, Boston, Mass. Grate-bar for furnaces, &c	271,508	Jan. 30	2095	602	23	418
Newton, Robert, Providence, R. I. Reducing-valve	282,557	Aug. 7	103	31	24	518
Newton, Robert, Providence, R. I. Steam-trap	282,558	Aug. 7	105	31, 32	24	518
Newton, Robert, Providence, R. I. Valve for steam-traps	284,469	Sept. 4	375	104	24	967
Newton, Stephen S., Binghamton, N. Y. Bottle-stopper	279,418	June 12	1017	282	23	2304
Newton, Stephen S., Binghamton, N. Y. Bottle-stopper	279,419	June 12	1017	282	23	2304
Newton, Stephen S., Binghamton, N. Y. Bottle-stopper	280,503	July 3	207	54	24	37
Newton, Stephen S., Binghamton, N. Y. Bottle-stopper	280,944	July 10	755	210	24	138
Newton, Sylvester, *et al.* (See Buck, James A., assignor.)						
Newton, William H., Chicago, Ill. Bobbin-winder for sewing-machines	270,831	Jan. 16	1241	358	23	257
Newton, William H., Chicago, Ill. Hand-punch	271,104	Jan. 23	1578	454	23	319
Ney, Jacob, assignor to Ney Manufacturing Company, Canton, Ohio. Hay-elevator track	287,772	Oct. 30	2551	686	25	494
Ney Manufacturing Company. (See Ney, Jacob, assignor.)						
Nézeraux, Charles P., Paris, France. Secondary battery	271,732	Feb. 6	173	47	23	470
Niccum, Andrew, deceased, Topeka, Kans.; James R. Niccum, administrator. Hame-fastener	285,428	Sept. 25	1558	439	24	1193
Niccum, James R., administrator. (See Niccum, Andrew.)						
Nichols, Aaron S., New Haven, Conn. Mouth-piece for telephone-transmitters	271,903	Feb. 6	384	106	23	508
Nichols, Aaron S., Pullman, Ill. Bell attachment for organs	281,121	July 10	961	269	24	177
Nichols, Charles H., assignor of one-half to M. Bashare, Toledo, Ohio. Cracker-screen	282,465	July 31	2702	743	24	491
Nichols, David R., Brockville, Ontario, Canada. Carpet-sweeper	288,590	Nov. 13	1009	278	25	693
Nichols, Francis M., Chicago, Ill. Representing and multiplying monumental and other designs	287,310	Oct. 23	1941	530	25	371
Nichols, Frederic B., assignor of one-half to C. Thomson, Halifax, Nova Scotia, Canada. Apparatus for evaporating sirups and viscous substances	276,192	Apr. 24	1700	470	23	1541
Nichols, Frederic B., and C. Thomson, Halifax, Nova Scotia, Canada; said Nichols assignor to said Thomson. Manufacturing fish-meal	276,868	May 1	432	.....	23	1702
Nichols, Frederic B., and C. Thomson, Halifax, Nova Scotia, Canada. Making radiating flues	286,219	Oct. 9	536	147	25	109
Nichols, George, Seymour, Conn. Expansion-bit	289,126	Nov. 27	1672	464	25	823
Nichols, George B., Galveston, Tex. Weather and fire strip for box-car doors	279,420	June 12	1018	283	23	2304
Nichols, George B., Galveston, Tex. Lumber-door for railway box-cars	280,395	July 3	67	18	24	14
Nichols, George H., *et al.* (See Herreshoff, John B. F., assignor.)						
Nichols, H. N. (See Sharpneck, William S., assignor.)						
Nichols, Harry M., New York, N. Y. Manufacture of steel	276,453	Apr. 24	2035	.....	23	1599
Nichols, Jacob J. (See McLewee, William S., assignor.)						
Nichols, Mark M., New York, N. Y. Flexible tubing	284,050	Aug. 28	1933	540	24	872
Nichols, Melville S., *et al.* (See Matzeliger, Jan E., assignor.)						
Nichols, Ralph K., Lower Lake, Cal. Cultivator	289,127	Nov. 27	1673	464	25	823
Nichols, Shepard & Company. (See Hoag, Andrew J., assignor.)						
Nichols, Shepard & Company. (See Robinson, William A., assignor.)						
Nichols, Shepard & Company. (See Shepard, Hoag, and Thomson, assignors.)						
Nichols, Simeon, Lisbon, Me., assignor of one-fourth to C. W. Parker, Chicago, Ill. Railway-switch	274,814	Mar. 27	2014	561	23	1204
Nichols, Thomas R., Lynn, Mass. Spool holder and unwinder for sewing-machines	280,504	July 3	208	54	24	37
Nichols, Walter B., Danville, Ky. Car-coupling	278,728	June 5	67	21	23	2136
Nichols, William. (See Ross, James S., assignor.)						
Nichols, William, Boston, Mass. Telephone local-call instrument	283,354	Aug. 14	1067	{300 / 301}	24	699
Nichols, William A., Philadelphia, Pa. Watch-protector	285,154	Sept. 18	1232	346	24	1129
Nichols, William H., *et al.* (See Herreshoff, John B. F., assignor.)						
Nichols, William H., assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Chime attachment for harness	284,885	Sept. 11	888	250	24	1062
Nicholson, Charles W., Assamoosick, Va. Peanut cleaner and polisher	290,914	Dec. 25	1958	541	25	1253
Nicholson, Coleman L., Philadelphia, Pa. Hod-elevator	290,347	Dec. 18	1212	339	25	1116
Nicholson, Henry C., Mount Washington, Ohio. Electric railway-signal	275,255	Apr. 3	473	139	23	1307
Nicholson, Henry C., Kenton, Ky. Relay for quadruplex telegraphs	289,301	Nov. 27	1875	521	25	862
Nicholson, Marcus D. (See Maranville, Egbert L., assignor.)						
Nicholson, William H., *et al.* (See Leake, Lewis C., assignor.)						
Nicholson, William L. (See Peeler, Abner, assignor.)						
Nicholson, William T., Providence, R. I. Machine for and method of cutting teeth upon file-blanks	278,169	May 22	2024	556	23	1994
Nicht, Alexander J. (See Nicht, Josef, assignor.)						
Nicht, Josef, assignor of one-half to A. J. Nicht, Auburn, N. Y. Flour-bolt	288,845	Nov. 20	1326	364	25	753
Nickel, David, Morris, Ill. Door-hanger	290,093	Dec. 11	891	253	25	1051
Nickerson, Amos, Somerville, Mass. Alarm for elevators	284,654	Sept. 11	604	170	24	1012
Nickerson, Charles E. (See Bowers, George W., assignor.)						
Nickerson, Fred. A., assignor to Dickinson Hard Rubber Company, Springfield, Mass. Metal die for plastic materials	285,057	Sept. 18	1112	310	24	1109
Nickerson, Fred. A., assignor to Dickinson Hard Rubber Company, Springfield, Mass. Compound die for plastic materials	285,058	Sept. 18	1113	311	24	1109
Nickerson, Fred. A., assignor to Dickinson Hard Rubber Company, Springfield, Mass. Die for the manufacture of articles from plastic materials	285,059	Sept. 18	1114	311	24	1109
Nickerson, George W., Yarmouth, Mass. Adjustable calk for horseshoes	280,071	June 26	1802	507	23	2453
Nickerson, Hiram B., New Bedford, Mass. Combined chair and fish-plate for railway-joints	288,656	Nov. 20	1093	300	25	713
Nickerson, Luke A., and J. L. Dufrane, Rockford, Ill. Carpet-fastener	287,388	Oct. 23	2031	552	25	387
Nicklaus, Oscar A., *et al.* (See Blair, James C., assignor.)						
Nickum, George S., assignor of one-half to E. F. Stoddard, Dayton, Ohio. Oil-cup	288,102	Nov. 6	387	109	25	575
Nicol, Robert, Jr., Oshkosh, Wis. Pocket	278,587	May 29	2567	701	23	2097

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Nicolaisen, Eberhardt, New York, assignor of nine-sixteenths to N. Ussing, J. A. Rüs, Brooklyn, and J. T. Nagle, New York, N. Y. Electric mail-conveyer	271,904	Feb. 6	385	106	23	508
Nicols, Parshall D., Sewickley, and T. W. Webb, Pittsburg, Pa., assignors to said Nicols. Bolt-threading machine	272,079	Feb. 13	615	167	23	558
Nicolson, Charles P., Lamar, Mo. Car-coupling	277,051	May 8	681	178	23	1749
Nicolson, Charles P., Chicago, Ill. Skirt-protector	289,020	Nov. 27	1544	426	25	800
Niebell, Bernhard S., Scranton, Pa. Furnace-grate	270,100	Jan. 2	313	93	23	64
Nida, Charles, New York, N. Y. Machine for cleaning intestines	289,302	Nov. 27	1877	521, 522	25	862
Niedringhaus, Frederick G. and W. F., St. Louis, Mo. Attaching handles to vessels of enameled iron-ware	286,627	Oct. 16	1068	287	25	210
Niedringhaus, Frederick G. and W. F., St. Louis, Mo. Hinge for vessels of enameled iron-ware	286,628	Oct. 16	1069	288	25	210
Niedringhaus, William F. (See Niedringhaus, Frederick G. and W. F.)						
Niedringhaus, William F., St. Louis, Mo. Vessel of enameled iron-ware	290,596	Dec. 18	1549	427	25	1174
Niedringhaus, William F., St. Louis, Mo. Vessel of enameled iron-ware	290,597	Dec. 18	1550	427	25	1174
Niedringhaus, William F., St. Louis, Mo. Vessel of enameled iron-ware	290,598	Dec. 18	1550	427	25	1175
Niehaus, Lambert, St. Louis, Mo. Brick-kiln	290,261	Dec. 18	1104	309	25	1097
Niekrenz, Christian, Farina, Ill. Car-coupling	287,849	Nov. 6	70	21	25	520
Nielsen, Hans J. (See Madsen and Nielsen.)						
Nielsen, Lauritz B., Chicago, Ill. Centrifugal creamer	281,916	July 24	1992	546	24	366
Nielson, William, New York, N. Y. Decorating rooms	275,692	Apr. 10	1075	293	23	1418
Nielson, Christian. (See Albrecht and Nielson.)						
Niemiller, Charles, assignor to G. Uchtman, Cincinnati, Ohio. Rocking-chair	279,879	June 19	1559	436	23	2404
Nienstädt, Ernst, Berlin, Germany. Etching glass	273,588	Mar. 6	452	.....	23	912
Nierstheimer, George, Newport, Ky. Burial-case	290,996	Dec. 25	2079	573	25	1271
Nies, Phillip, assignor of two-thirds to J. Schlegel and J. Erbe, Newark, Ohio. Ice pick and breaker	285,060	Sept. 18	1115	311	24	1109
Niese, Henry E., and G. Dinkel, assignors to F. O. Matthiessen & Wiechers Sugar Refining Company, Jersey City, N. J. Apparatus for cooling or drying granular materials	278,356	May 29	2298	628, 629	23	2050
Niesendorfer, Peter G., Baltimore, Md. Combined bung-bush and stamp-protector	286,474	Oct. 9	864	234	25	168
Niesendorfer, Peter G., Baltimore, Md. Gate-valve	286,475	Oct. 9	865	235	25	168
Niggeman, Charles H., Lexington, Mich. Button or stud	281,642	July 17	1626	444	24	296
Nightingale, John. (See Nightingale, Joseph and J.)						
Nightingale, Joseph and J., Paterson, N. J. Method of and appliance for locking separate skeins of silk	287,705	Oct. 30	2456	661	25	477
Niles Tool Works. (See Reiss, George T., assignor.)						
Niles, Truman B., Swanville, Ind. Seed-planter	285,652	Sept. 25	1819	518	24	1242
Nilson, James M., Maumee, Ind. Water-wheel	289,021	Nov. 27	1544	426	25	800
Nilson, Nils, Maple Plain, Minn. Spring-tooth for agricultural implements	280,072	June 26	1803	507	23	2452
Nimmo, Andrew, Bristol, R. I. Calipers	280,073	June 26	1804	507	23	2453
Nimmo, Edward B., Brooklyn, N. Y. Stylographic pen	284,569	Sept. 4	500	140	24	988
Nimmo, George, Jersey City, N. J. Crucible	271,105	Jan. 23	1579	454	23	319
Nindemann, William F. C., New York, N. Y. Gaff for fore-and-aft vessels	280,945	July 10	757	210	24	139
Nine, William F., and A. R. Case, Sully, Iowa. Dumping-platform	288,103	Nov. 6	388	110	25	575
Nirdlinger, Albert H. (See Youngs, George B., assignor.)						
Nishwitz, Frederick, Millington, N. J. Agricultural machine	288,657	Nov. 20	1094	300	25	713
Nishwitz, Frederick, Millington, N. J. Harrow	288,658	Nov. 20	1095	300, 301	25	713
Nissen, Peter C., Chicago, Ill. Refrigerator-car	280,224	June 26	1976	555	23	2484
Nitsche, Alexander. (See McCray, Benjamin F., assignor.)						
Niver, Seneca A., Buffalo, N. Y. Clothes-washer	273,134	Feb. 27	1965	552	23	806
Nix, John D., Milwaukee, Wis. Adjustable reel for harvesters and mowing-machines	290,792	Dec. 25	1805	499, 500	25	1227
Nix, Manning L., Paris, Tex. Cotton-gin feeder	274,961	Apr. 3	103	28	23	1242
Nix, Manning L., and S. McClelland, Paris, Tex. Saah-holder	271,905	Feb. 6	387	106	23	509
Nixon, Jacob, Winfield, Kans. Track for traction-engines	282,758	Aug. 7	343	97	24	560
Nixon, Miles G., Chicago, Ill. Planing attachment for lathes	275,693	Apr. 10	1075	293, 294	23	1418
Noakes, James O. (See Herzog, F. Benedict, assignor.)						
Noar, Isaac, New York, N. Y. Neckscarf	278,528	May 29	2568	702	23	2098
Noar, Isaac, New York, N. Y. Neckscarf	289,356	Nov. 27	1946	540	25	875
Nobel, Alfred, assignor, by mesne assignments, to Giant Powder Company, San Francisco, Cal. Explosive compound. (Reissue)	10,267	Jan. 9	912	.....	23	187
Noble, A. F., *et al.* (See Ritter, Andrew, Jr., assignor.)						
Noble, Ezekiel H. (See Smith and Vincent, assignors.)						
Noble, George H. (See Glass and Noble.)						
Noble, George H. (See Willcox and Noble.)						
Noble, Henry T., Dixon, Ill. Harrow	283,805	Aug. 28	1618	456	24	818
Noble, James, Jr. (See Mullen and Noble.)						
Noble, John A. (See Folant, Jacob, assignor.)						
Noble, John E., assignor of one-sixth to C. J. Leming, Mulberry, Ohio. Combined insulator and lightning-arrester	280,324	June 26	2101	590	23	2506
Noble, John H. (See Ingham, John F., assignor.)						
Noble, John T., St. Louis, Mich. Hose-cart	280,323	June 26	2100	590	23	2506
Noble, Theron A. (See Hedge and Noble.)						
Noble, Theron A., *et al.* (See Baker, George C., assignor.)						
Noblett, William, Chicago, Ill. Detonating burglar-alarm	287,850	Nov. 6	71	21	25	520
Nock, George W., Philadelphia, Pa. Coupling for bell-cords, &c.	279,267	June 12	812	225	23	2272
Nock, John, Constantinople, Turkey. Machine for forging anchors	273,135	Feb. 27	1966	552, 553	23	806
Noe, Jabez B., Nevada, Mo. Press for making harness-pads	280,225	June 26	1978	556	23	2485
Nogar, Russell H., Dundee, Mich. Rotary tile-ditching machine	284,320	Sept. 4	201	56	24	938
Nöggerath, Rudolph. (See Baumotte, Hermann, assignor.)						
Nolan, John H., Boston, Mass. Fireproofing composition	289,022	Nov. 27	1545	.....	25	800
Nolan, John M., deceased, assignor to W. Shannon, Waterbury, Conn. Rake	285,653	Sept. 25	1820	518	24	1242
Nolan, Lewis R., Austin, Ark. Cotton-gin power	276,454	Apr. 24	2035	565	23	1599
Nolan, Patrick W., New York, N. Y., assignor to himself and C. Bardwell, Summit, N. J. Hot-air register	270,832	Jan. 16	1243	358	23	258
Nolf, André L., Brussels, Belgium. Process of and apparatus for obtaining chlorine and sodium	271,906	Feb. 6	388	107	23	509
Noll, William H., Milton, Ind. Atmospheric clothes-pounder	282,759	Aug. 7	344	97	24	560
Nolton, Thomas J., Lake City, Colo. Trestle or platform attachment for ladders	271,509	Jan. 30	2096	602, 603	23	418

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Noonan, Burnett J., Fern Ridge, Mo. Bar for aligning railway-rails	275,256	Apr. 3	476	133	23	1307
Noppel, Emil, Philadelphia, Pa. Horn for drawing on shoes	288,474	Nov. 13	872	236	25	667
Norburn, Charles A. (See Norburn, John and C. A.)						
Norburn, John and C. A., Danville, Va.; said John Norburn assignor to said C. A. Norburn. Plug-tobacco	284,321	Sept. 4	902	56	24	938
Nordenfelt, Thorsten, Westminster, England. Projectile	270,101	Jan. 2	314	93	23	64
Nordenfelt, Thorsten, Westminster, England. Breech-loading ordnance	282,008	July 24	2098	575	24	383
Nordyke, Charles A., Cincinnati, Ohio. Removable bay-window	280,946	July 10	758	210	24	139
Nordyke & Marmon Company. (See Marmon, Daniel W., assignor.)						
Nordyke & Marmon Company. (See Marmon and Warrington, assignors.)						
Nordyke & Marmon Company. (See Warrington, Jesse, assignor.)						
Nordyke & Marmon Company of Indiana. (See Marmon, Daniel W., assignor.)						
Norman, James E. (See Lilly and Norman.)						
Norman, Lawrence F., Boston, Mass. Boot or shoe	289,439	Dec. 4	80	23	25	900
Norman, William W. (See Bell and Norman.)						
Norris, Albert N., Rushville, Ind. Cultivator	272,060	Feb. 13	618	167	23	559
Norris, Albert N., Rushville, Ind. Corn-planter	276,869	May 1	433	115	23	1702
Norris, Daniel W., Elgin, Ill. Can for oil and other liquids	276,066	Apr. 17	1539	423, 424	23	1506
Norris, Daniel W., Elgin, Ill., and W. Young, Dayton, Ohio; said Norris assignor to said Young. Wire-stretching machine	288,359	Nov. 13	715	196	25	640
Norris, George S., Baltimore, Md. Bottle-stopping device	272,061	Feb. 13	619	167	23	559
Norris, George S., Baltimore, Md. Bottle-stopping device	281,290	July 17	1186	328	24	223
Norris, John C., Crete, Nebr. Combined paper-sack, twine, and tea-paper case	270,687	Jan. 16	1069	306	23	224
Norris, Joseph, and N. Moore, assignors of one-third to A. H. Low, Duke Centre, Pa. Locking stop-cock	288,725	Nov. 20	1188	324	25	728
Norris, Willard H., Glens Falls, N. Y. Bosom-shirt	289,778	Dec. 4	502	139	25	973
Norris, William R., Fort Ann, N. Y. Educational map	279,268	June 12	813	225	23	2272
Norsëng, Gulbrand, Hamar, Norway. Potato-digger	283,917	Aug. 7	523	146, 147	24	593
Norten, Henry W. (See Hudson, John W., assignor.)						
North & Co., O. B. (See Hanford, Robert G., Jr., assignor.)						
North & Co., O. B. (See Hubbard, George M., assignor.)						
North & Co., O. B. (See O'Brien, James, assignor.)						
North & Co., O. B. (See Zeller, Melancthon E., assignor.)						
North, George S., South Norwalk, Conn. Photographic camera	276,455	Apr. 24	2036	565	23	1599
North, John, Middletown, assignor to J. H. Whittemore, Naugatuck, Conn. Molding-machine	274,646	Mar. 27	1816	504, 505	23	1170
North, Stephen, Syracuse, N. Y. Ear-trumpet. (Reissue)	10,268	Jan. 9	914	263	23	187
North Western Manufacturing Company. (See Bullock and Jackson, assignors.)						
North Western Steele Wheel Company. (See Wilder, Charles O., assignor.)						
North, William C., Cleveland, Ohio. Vapor-stove	272,462	Feb. 20	1103	312	23	648
Northall, William H. (See Leet and Northall.)						
Northey, John P., Toronto, Ontario, Canada. Steam-actuated valve	274,647	Mar. 27	1820	505	23	1171
Northey, Thomas, Toronto, Ontario, Canada. Steam-actuated valve	287,706	Oct. 30	2457	661, 662	25	477
Northrup, Charles L., Salem, Mass. Automatic switch-closer	283,721	Aug. 21	1508	425	24	786
Northrup, George B., assignor to W. & E. T. Fitch, New Haven, Conn. Buckle attachment	272,748	Feb. 20	1469	413	23	712
Northrup, Israel H., New York, N. Y., assignor of two-thirds to A. H. Byington, Norwalk, Conn. Mail-bag	272,577	Feb. 20	1256	350	23	674
Northup, H. Davis, *et al.* (See Davis, Clayton N., assignor.)						
Northway, Winslow P., assignor of one-half to J. L. Wilford, Minneapolis, Minn. Centrifugal separator	288,257	Nov. 13	581	161	25	617
Northwestern Fertilizing Company. (See Kimplen, Cornelius, assignor.)						
Northwestern Horse Nail Company. (See Wills and Kingsland, assignors.)						
Northwestern Manufacturing and Car Company. (See Clarke, Willard A., assignor.)						
Northwestern Manufacturing Company. (See Bullock, Daniel, assignor.)						
Northwestern Sleigh Company. (See Chapman, John A., assignor.)						
Norton, Edward S. (See Devor, James R., assignor.)						
Norton, Edwin, Chicago, Ill. Soldering cans	274,362	Mar. 20	1438	394, 395	23	1097
Norton, Edwin, Chicago, Ill. Can and making the same	277,920	May 22	1716	469	23	1941
Norton, Edwin, Chicago, Ill. Combined cork and screw nozzle	287,046	Oct. 23	1603	441	25	309
Norton, Edwin, Chicago, Ill. Paint-can	287,047	Oct. 23	1604	441	25	309
Norton, Edwin, and J. G. Hodgson, assignors to said Norton and O. W. Norton, Chicago, Ill. Machine for seaming sheet-metal cans	272,972	Feb. 27	1763	493, 494	23	770
Norton, Edwin, and J. G. Hodgson, assignors to said Norton and O. W. Norton, Chicago, Ill. Can-ending machine	274,363	Mar. 20	1440	395, 396	23	1097
Norton, Edwin, and J. G. Hodgson, assignors to said Norton and O. W. Norton, Chicago, Ill. Sheet-metal can	275,936	Apr. 17	1396	381	23	1480
Norton, Edwin, and J. G. Hodgson, assignors to said Norton and O. W. Norton, Chicago, Ill. Can-testing machine	287,048	Oct. 23	1606	441, 442	25	310
Norton, George E., New Haven, Conn. Clock-bell	276,456	Apr. 24	2037	566	23	1599
Norton, George W., Freeman, Me. Car-coupling	284,974	Sept. 11	995	281	24	1062
Norton, Hiram, *et al.* (See Moulton, Fordyce M., assignor.)						
Norton, John B., Philadelphia, Pa. Belt-fastening	289,926	Dec. 11	692	194	25	1014
Norton, Levi D., assignor to E. D. Albro Company, Cincinnati, Ohio. Gluing-machine	290,094	Dec. 11	891	253	25	1051
Norton, Lorenzo B., New Haven, Conn. Reed-organ	270,974	Jan. 23	1426	411	23	294
Norton, Oliver W. (See Norton and Hodgson, assignors.)						
Norton, Rowland S., Troy, N. Y. Sewing-machine	270,244	Jan. 9	495	146	23	107
Norton, Rowland S., assignor to G. B. Cluett, Brother & Co., Troy, N. Y. Sewing-machine gage	280,758	July 3	516	145	24	91
Norton, Thomas, Detroit, Mich., assignor to T. A. Jebb, Buffalo, N. Y. Manufacturing crystallized grape-sugar	285,654	Sept. 25	1820	.....	24	1242
Norton, Zack, Rossville, Ill. Neck-yoke	277,503	May 15	1224	329	23	1849
Norwood, Horace W., Philadelphia, Pa., assignor to Norwood Spark Preventive and Smoke Consuming Company, Camden, N. J. Water-elevator	272,463	Feb. 20	1104	312	23	648
Norwood, Horace W., Philadelphia, Pa., assignor to Norwood Spark Preventive and Smoke Consuming Company, Camden, N. J. Draft-regulator for locomotive and other furnaces	278,813	June 5	182	53	23	2153
Norwood, Horace W., Philadelphia, Pa., assignor to Norwood Spark Preventive and Smoke Consuming Company, Camden, N. J. Draft-regulator	278,814	June 5	183	53	23	2153
Norwood, Horace W., Philadelphia, Pa., assignor to Norwood Spark Preventive and Smoke Consuming Company, Camden, N. J. Air-injector	279,269	June 12	814	295	23	2272

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
l Spark Preventive and Smoke Consuming Company. (See Norwood, Horace W., or.)						
n, Alonzo, Toledo, Ohio. Portable steam boring-engine	273,136	Feb. 27	1968	553	23	806
William, Pawtucket, assignor of one-half to A. A. Mann, Lincoln, R. I. Vehicle-	286,476	Oct. 9	866	235	25	168
, Bernard, Port Washington, Wis. Bung-extractor	285,655	Sept. 25	1822	519	24	1243
r, Frank. (See Burkhard and Novotny.)						
Annie E. (See Nowell, Oliver S., assignor.)						
Oliver S., assignor to A. E. Nowell, Boston, Mass. Safety attachment for eleva-	285,762	Sept. 25	1964	556	24	1266
T. S., *et al.* (See Huse, Warren D., assignor.)						
Thomas S. (See Prouty, George W., assignor.)						
David F., Lewiston, Me. Lumber-drier	286,552	Oct. 9	961	259	25	185
Ella A. (See Noyes, William H. and E. A.)						
Lizzie B. (See Noyes, Walter B., assignor.)						
Walter B., assignor to L. B. Noyes, Saginaw, Mich. Curtain-roller	278,037	May 22	1861	508	23	1966
Walter B., assignor to L. B. Noyes, Saginaw, Mich. Curtain-roller	278,038	May 22	1862	508	23	1966
William H., Newburyport, Mass. Stove top and cover	278,170	May 22	2027	557	23	1994
William H., Newburyport, Mass. Top-cover for kerosene, gas, and other stoves	279,421	June 12	1019	283	23	2305
William H. and E. A., Newburyport, Mass. Stove	282,660	Aug. 7	222	65	24	538
Daniel D., Newark, N. J. Curtain-ring	279,585	June 19	1220	338	23	2345
Daniel D., assignor to W. T. Mersereau & Co., Newark, N. J. Curtain-bracket	284,143	Aug. 28	2057	570	24	893
Edward, Brooklyn, assignor of one-half to A. K. Johnston, Staten Island, N. Y., screw machine	282,107	July 31	2232	614, 615	24	412
Richard C., Pittsburg, Pa. Machine for beveling colters, &c.	272,062	Feb. 13	690	168	23	559
Richard C., assignor to B. P. Wells, T. T. Wightman, and J. G. Wainwright, Pitts- Pa. Machine for flanging pipes	286,569	Oct. 9	986	265, 266	25	189
ohn, and F. Kuehne, Jersey City, N. J. Elastic label	281,391	July 17	1314	363	24	245
orge W., Green Mount, Pa. Lifting-jack	284,975	Sept. 11	996	281	24	1062
aac N., Winston, N. C. Evaporator	269,877	Jan. 2	63	19	23	15
ames T., Philadelphia, Pa. Spike	277,921	May 22	1717	469	23	1941
Isaac W., Canton, Ohio. Hame-tug attachment	271,360	Jan. 30	1768	512	23	359
cker, By. De Soto, Iowa. Corn-planter	280,927	Dec. 11	692	194	25	1014
ker, William, Kansas City, Mo. Car-coupling	277,152	May 8	813	214	23	1772
Philip, Sandusky, Ohio. Refrigerative vessel	273,137	Feb. 27	1969	554	23	807
er, Philip P., Cleveland, Ohio. Magneto-electric machine	287,773	Oct. 30	2552	686, 687	25	494
er, Philip P., Cleveland, Ohio. Dynamo or magneto electric machine	287,774	Oct. 30	2553	687	25	494
ames W., assignor of one-half to E. Epps, Kingstree, S. C. Hub-attaching device	287,311	Oct. 23	1941	530	25	371
John R., Milford, and J. A. Smith, assignors to Automatic Safety Boiler and En- ompany, New Haven, Conn. Automatic boiler-feed	288,591	Nov. 13	1010	278	25	693
k, Wilhelm, Berlin, Germany. Beer-cooling apparatus	276,870	May 1	434	115	23	1702
lonzo I. (See Allen, Lester H., assignor.)						
hn H., assignor to himself and A. F. Downie, New Glasgow, Nova Scotia, Canada. ne for serving rope	275,937	Apr. 17	1387	382	23	1480
aiah, New York, N. Y. Splice-bar for railway-rails	272,749	Feb. 20	1470	413	23	712
mes, Oxford, Ohio. Vehicle-spring	290,701	Dec. 25	1691	465	25	1905
, James F. (See Holmes, William C., assignor.)						
, James H., Callisburg, Tex. Cultivator	274,962	Apr. 3	104	29	23	1942
, Samuel E., Iron Ridge, Wis. Seal-lock	278,450	May 29	2413	658	23	2070
, Thomas B., Morristown, N. J. Car-coupling	277,773	May 15	1545	490	23	1905
, Thomas B., assignor to himself and T. B. Nutting, Jr., Morristown, N. J. Gang lky plow	287,851	Nov. 6	71	22	25	520
, Thomas B., assignor to himself and T. B. Nutting, Jr., Morristown, N. J. Sulky-	287,852	Nov. 6	72	22	25	520
, William R. (See Tirrell, Jacob P., assignor.)						
avid D., *et al.* (See Nyce and Hunsicker, assignors.)						
oseph K., and I. C. Hunsicker, assignors to themselves, W. D. Heebner, D. D. Nyce, A. Anden, Skippack, Pa. Car-coupling	289,357	Nov. 27	1947	541	25	875
vid, *et al.* (See Miller, Frank, assignor.)						
orge E., *et al.* (See Ballou, Hiram P., assignor.)						
seph K., Fairhaven, Mass. Bottle-stopping machine	273,881	Mar. 13	832	225	23	984
rshall M. (See McCalip and Nye.)						
rtillo A., Charlotte, Mich. Belt-fastening	276,620	May 1	93	25	23	1643
erman R., Chicopee Falls, Mass. Truss-pad	290,095	Dec. 11	892	254	25	1051
, John W., Philadelphia, Pa. Steam-engine	272,306	Feb. 13	886	248	23	607
, John W., Philadelphia, Pa. Steam-engine governor	272,307	Feb. 13	887	248, 249	23	607
n, William H. (See Snider and O'Bannon.)						
n, William H., and J. J. Snider, Cleburne, Tex. Churn-motor	285,504	Sept. 25	1643	462	24	1209
, Edward J., Evansville, Ind. Constructing towers	279,422	June 12	1020	283	23	2305
, Anthony W., New York, N. Y. Staining compound for woods	270,833	Jan. 16	1244	.....	23	258
James, New York, N. Y. Boot for horses	290,096	Dec. 11	893	254	25	1051
James, Minneapolis, Minn., assignor to O. B. North & Co., New Haven, Conn. buckle	288,475	Nov. 13	873	236	25	668
John, *et al.* (See Vincent, John, Jr., assignor.)						
Joseph, Kalamazoo, Mich. Artificial leg	290,915	Dec. 25	1958	541	25	1253
Simon, assignor to himself and H. P. Howard, Bristol, R. I. Hydraulic motor for	286,477	Oct. 9	867	235	25	168
Thomas, New York, N. Y. Tricycle	287,566	Oct. 30	2260	613	25	440
Thomas, Boston, Mass. Reefing and furling fore-and-aft sails	287,707	Oct. 30	2459	662	25	477
Walter B., Jr. (See O'Brien, William P. and W. B., Jr.)						
William P., San José, and W. B. O'Brien, Jr., Santa Clara, Cal. Automatic egg-	284,051	Aug. 28	1934	541	24	872
Willis, San Francisco, Cal. Two-wheeled vehicle	275,512	Apr. 10	848	230	23	1379
r, James, Jackson, Mo. Brake-shoe	284,052	Aug. 28	1935	541	24	873
r, Jeremiah, Piedmont, Cal. Clamp for stone-work	285,918	Oct. 2	179	51	25	35
r, John, Toronto, Ontario, Canada. Car-coupling	282,009	July 24	2099	576	24	384
r, John D. (See Swanton, John G., assignor.)						
r, John F. (See Scouller, Alexander, assignor.)						
r, John J., and R. M. White, assignors of one-third to C. L. Gish, Wellsville, N. Y. upling	271,106	Jan. 23	1580	454	23	320
r, John S., assignor of one-half to L. J. Dorflinger, White Mills, Pa. Apparatus plying abrading and polishing material to cutting and polishing tools	283,273	Aug. 14	963	268	24	679

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
O'Connor, Michael J., Henderson, Ky. Pneumatic apparatus for excavating foundations	285,834	Oct. 2	63	19, 20	25	13
O'Donel, Irwin M., Pittsburg, Pa. Telephone-exchange	283,806	Aug. 28	1619	456, 457	24	818
O'Donnell, James, San Francisco, Cal. Car-brake	289,128	Nov. 27	1674	464	25	823
O'Donnell, James B., Hazleton, Pa. Car-brake	275,513	Apr. 10	849	230	23	1379
O'Donnell, Michael F., *et al.* (See Vincent, John, Jr., assignor.)						
O'Donnell, Thomas, Philadelphia, Pa. Quill pen-holder	271,107	Jan. 23	1581	455	23	320
O'Donoghue, James D., Brooklyn, N. Y. Toy race-course	288,476	Nov. 13	874	237	25	663
O'Donovan, Timothy C., Walker's Mills, Pa. Car-coupling	290,097	Dec. 11	893	254	25	1051
O'Flaherty, John. (See Pearson, Marshall H., assignor.)						
O'Grady, John, assignor to F. X. Ohlen, Columbus, Ohio. Insertible saw-tooth	286,478	Oct. 9	868	236	25	168
O'Hara, John H., Throopsville, N. Y. Grain-binder	272,150	Feb. 13	702	193	23	573
O'Hara, Patrick H., Philadelphia, Pa. Coffee or tea pot	270,463	Jan. 9	772	226	23	160
O'Hara, Robert, and C. H. Remington, Gilroy, Cal. Horseshoe	282,108	July 31	2237	615	24	413
O'Hara, William P., Cincinnati, Ohio. Sampling-tube or liquor-thief	275,694	Apr. 10	1076	294	23	1419
O'Harra, George W., assignor of one-half to J. A. Hoedemaker, Kalamazoo, Mich. Rheostat	283,138	Aug. 14	789	221	24	647
O'Hern, Patrick, Chapman, Nebr. Railway-switch stand	284,144	Aug. 28	2058	571	24	893
O'Keefe, John, assignor to Excelsior Manufacturing Company, St. Louis, Mo. Rotary grate	284,471	Sept. 4	376	105	24	968
O'Kelly, Joseph G., Chicago, Ill. Weather-strip for door-sills	282,109	July 31	2237	616	24	413
O'Lally, Patrick K., Boston, Mass. Blind and door spring	283,649	Aug. 21	1415	396	24	769
O'Lally, Patrick K., Boston, Mass. Door-check	289,697	Dec. 4	417	117	25	959
O'Leary, Arthur J. (See Moore and O'Leary.)						
O'Leary, Michael J., Springville, Cal. Bridle-bit	274,648	Mar. 27	1821	506	23	1171
O'Malley, Thomas M., assignor of two-thirds to A. Gilmartin and J. Deegan, Bellaire, Ohio. Nut-lock	290,916	Dec. 25	1961	542	25	1253
O'Malley, William T. (See Devers, William J., assignor.)						
O'Neil, David W., *et al.* (See Smith, John B., assignor.)						
O'Neil, John, assignor to himself and T. J. Lally, Boston, Mass. Sad-iron holder	279,591	June 19	1223	340	23	2346
O'Neil, Samuel. (See Gibbs, Richard, assignor.)						
O'Neill, Charles Z., assignor to Chapman-O'Neill Manufacturing Company, New York, N. Y. Street-sweeping machine	270,834	Jan. 16	1244	359	23	258
O'Neill, Eugene, San Francisco, Cal. Cut-off-valve gear	271,352	Jan. 30	1895	548	23	382
O'Neill, Eugene, San Francisco, Cal. Valve-gear for steam-engines	278,451	May 29	2413	658	23	2070
O'Reilly, Andrew J., St. Louis, Mo. System of laying telegraph-wires	284,655	Sept. 11	604	171	24	1012
O'Reilly, Austin, Springfield, Mass. Beer-faucet	285,656	Sept. 25	1893	519	24	1243
O'Reilly, Patrick, New York, N. Y. Regulating-valve	274,512	Mar. 27	1659	461	23	1141
O'Shaughnessy, James F., New York, N. Y. Treatment of cotton-seed	286,553	Oct. 9	965	.....	25	186
O'Sullivan, James S., Troy, N. Y. Barrel-making machine	275,072	Apr. 3	251	69, 70	23	1969
O'Sullivan, Michael J., assignor of three-fourths to J. F. Morrison, Baltimore, Md. Telegraph-relay	286,955	Oct. 16	1481	407	25	281
Oakman, Samuel, Melrose, Mass. Covering for bottles	287,049	Oct. 23	1608	442	25	310
Oakman, Samuel, Melrose, Mass., assignor to American Insulator Company, of New York. Telegraph-insulator	288,360	Nov. 13	716	196	25	640
Oaks, William A. C., assignor to Goodell Company, Antrim, N. H. Guard for carving-forks	277,052	May 8	683	178	23	1749
Oakville Company. (See Moore, Samuel, assignor.)						
Obenchain, Frank, South Whitley, Ind. Sliding gate	283,648	Aug. 21	1414	396	24	769
Obenchain, John T., Logansport, Ind. Machine for dressing millstones	282,760	Aug. 7	345	98	24	560
Obenchain, John T., Logansport, Ind. Machine for facing millstones	282,761	Aug. 7	347	98	24	561
Obenchain, John T., Logansport, Ind. Grinding-mill	289,695	Dec. 4	415	116	25	958
Ober, Bertha, Urbana, Ill. Toy for the production of loud explosions	285,917	Oct. 2	178	51	25	34
Ober, William Y., Lynn, Mass. Machine for finishing seams	285,061	Sept. 18	1116	311, 312	24	1109
Oberlander, Sophia M., Baltimore, Md. Rubber boot	288,846	Nov. 20	1328	364	25	754
Oberle, Franklin X., St. Joseph, Mo. Kitchen-safe	274,021	Mar. 13	993	272	23	1012
Oberle, Louis J., and J. Janggen, assignors of one-third to J. K. Farley, Dubuque, Iowa. Machine for steaming jumbles, crackers, &c., before baking	281,201	July 10	1068	294	24	196
Obermayer, Simon, *et al.* (See Topmiller, Bernard, assignor.)						
Oberst, Peter J., St. Paul, assignor to T. B. Farrington, Minneapolis, Minn. Overcoat. (Reissue)	10,384	Sept. 18	1482	417	24	1174
Obetz, Charles F., *et al.* (See Williams, William, assignor.)						
Odell, Alfred T., and J. H. Cordell, Marshall, Mo. Car-coupling	289,852	Dec. 11	603	168	25	999
Odell, Edwin, Elko, Nev. Nut-lock	283,505	Aug. 21	1258	353	24	739
Odell, Emory E. (See Rusling and Odell.)						
Odell, John B., Chicago, Ill. Galvanic battery	275,845	Apr. 17	1282	352	23	1460
Odell, John B., Chicago, Ill. Device for lighting gas by electricity	277,053	May 8	684	178	23	1749
Odell, Levi J., assignor of two fifths to H. Kingman, W. and I. Walton, Fairbury, Ill. Check-row planter	289,696	Dec. 4	416	117	25	958
Odell, Risdon M. (See Hill, Webb, and Odell.)						
Odell, Risdon M., and D. L. McKitrick, Sr., Baton Rouge, La. Mechanical motor	270,688	Jan. 16	1070	306, 307	23	224
Odell, Udolpho H., Dayton, Ohio. Grinding-mill	279,880	June 19	1559	436	23	2404
Odio, Benjamin, *et al.* (See Montejo, Miguel A., assignor.)						
Odiorne, David W., Elizabeth, N. J. Umbrella-tie	276,457	Apr. 24	2038	566	23	1599
Odiorne, David W., Elizabeth, N. J., and E. Brosemann, New York, N. Y., assignors to said Odiorne. Pinking-machine	288,847	Nov. 20	1329	364	25	754
Odom, Andrew J., Sumner, Ga. Pivoted-jaw vise	280,226	June 26	1978	556	23	2485
Oehler, K. (See Hepp, Eduard, assignor.)						
Oelkers, John B. (See Bogert, Mortimer P., assignor.)						
Ofeldt, Frank W., Newark, N. J. Naphtha-engine	279,270	June 12	815	225, 226	23	2272
Offenbacker, Perry, Buck Creek township, Hancock county, Ind. Rotary harrow	270,245	Jan. 9	496	146	23	107
Offermann, Johann, and T. Jegler, Munich, Bavaria, Germany. Producing compound felted and textile fabrics	288,726	Nov. 20	1189	325	25	729
Ogborn, Harrison, Richmond, Ind. Machine for separating cockle, &c., from grain	283,015	Aug. 14	644	182, 183	24	622
Ogborn, Harrison, assignor to Richmond Caster Company, Richmond, Ind. Caster	273,298	Mar. 6	71	20	23	846
Ogborn, Rhoda C. (See Rowlett, Oliver B., assignor.)						
Ogden, Ferris, Mount Vernon, Ohio. Valve-gear	281,122	July 10	962	270	24	177
Ogden, John W., Brooklyn, N. Y. Adjustable bed-bottom	272,973	Feb. 27	1765	494	23	770
Ogden, Mortimer C., Brooklyn, N. Y., assignor to Eagle Lock Company, Terryville, Conn. Adjustable book-lock	284,470	Sept. 4	376	104	24	967

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
, Samuel E. (See Gore, Charles E., assignor.)						
oy, Moore & Co. (See Farris, Edwin B., assignor.)						
ee, Joseph C., Knoxville, Tenn. Grate attachment	270,246	Jan. 9	497	147	23	107
Curtain Cornice Company. (See Montgomery, James M., Jr., assignor.)						
Power and Light Company. (See Woolley, Leonidas G., assignor.)						
Henry S., Jr., Philadelphia, Pa. Sash-fastener	281,291	July 17	1187	328	24	223
Percy C., Plainfield, N. J. Insulator for electrical conductors	280,947	July 10	759	210	24	139
Percy C., Plainfield, N. J. Telephone-call	280,948	July 10	759	211	24	139
, Frank X. (See O'Grady, John, assignor.)						
n, Hans C., assignor to T. T. Haydock, Cincinnati, Ohio. Fifth-wheel	283,139	Aug. 14	790	221	24	647
Charles H., Sandusky, assignor to A. J. Frederick, Oberlin, Ohio. Telephone-sup-	288,183	Nov. 6	492	134	25	501
Ludwig M., New York, N. Y. Apparatus for rendering animal-fats	275,404	Apr. 10	710	190	23	1356
ein, Isidor, Chicago, Ill. Treating jute, butts, and animal-hair	277,054	May 8	684	.....	23	1749
Peter, Fort Madison, Iowa. Belt and bucket elevator	277,774	May 15	1546	420	23	1905
Frederick E. (See McMurtrey, Williams, and Okie.)						
Frederick E., Linwood, and J. F. Simpson, Philadelphia, Pa. Wrench	279,271	June 12	819	226	23	2273
er, Paul J., Boston, Mass. Folding spring-mattress	274,963	Apr. 3	105	29	23	1243
ames, Allegheny, Pa. Stop-valve	286,479	Oct. 9	869	236	25	169
, William P., Springfield, Ill. Pump-valve	270,102	Jan. 2	315	93	23	64
dorph, Henry, Belleville, Ill. Valve	274,364	Mar. 20	1443	396	23	1098
m, John, and B. N. Payne, assignors to B. W. Payne & Sons., Corning, N. Y. Steam-	272,578	Feb. 20	1257	350	23	674
rd, William, Columbus, Ohio. Fire-escape	276,171	May 22	2027	557	23	1994
rd, William, Columbus, and G. H. Smith, Jr., Lancaster, Ohio. Hair-spring stud for	273,138	Feb. 27	1971	554	23	807
Allen. (See Leach and Olds.)						
Annie H. (See Olds, Harmon D., assignor.)						
Harmon D., assignor to A. H. Olds, Cedar Rapids, Iowa. Ladder-truck	280,227	June 26	1979	556	23	2485
John D., Fort Wayne, Ind. Valve-gear	281,123	July 10	964	270, 271	24	177
Thomas D. (See Stickle, William H., assignor.) (Reissue.)						
William F., assignor to W. Deering, Chicago, Ill. Harvester-reel	286,629	Oct. 16	1070	288	25	210
r, John R., Chicago, Ill. Lunch-box	279,662	June 19	1308	364	23	2361
, Alfred H., Poughkeepsie, N. Y. Cloth cover for sewing-machines	276,270	Apr. 24	1791	498	23	1557
Brothers & Phillips. (See Bray, Thomas J., assignor.)						
, D. Franklin, Huntsville, Mo. Pitman-box	289,779	Dec. 4	503	139	25	974
, David B., Allegheny, Pa. Metallic fence-post	280,505	July 3	209	55	24	38
, David B., Allegheny, Pa. Metallic fence-post	281,717	July 24	1733	471	24	320
, David B., Allegheny, Pa. Metallic fence-post. (Reissue)	10,366	Aug. 14	1087	305	24	702
, James. (See Anderson and Oliver.)						
, James, assignor to South Bend Iron Works, South Bend, Ind. Colter-bracket	284,322	Sept. 4	202	57	24	938
, James B., Pittsburg, assignor to T. B. Kerr, Allegheny city, Pa. Barb for fences	286,147	Oct. 2	448	122	25	83
, John L., assignor of one-half to P. Moessinger, Cincinnati, Ohio. Mail-bag catcher	273,381	Mar. 6	187	51	23	866
, Robert S., assignor to Rathbone, Sard & Co., Albany, N. Y. Oil or vapor stove	281,917	July 24	1993	546	24	366
John W., assignor to himself, W. W. Bishop, and P. Smith, Joliet, Ill. Railway-rail	273,882	Mar. 13	832	226	23	984
, Richard J., Buffalo, N. Y. Operating belts and pulleys	289,440	Dec. 4	81	23	25	901
, Richard J., Buffalo, N. Y. Operating belts and pulleys	289,441	Dec. 4	82	23	25	901
ead, Albert P., West Troy, N. Y. Soldering-iron	277,601	May 15	1342	361	23	1867
ead, C. L. (See Cooke, Frederic D., assignor.)						
ead, Calvin, Elba, Mich. Wagon-brake	278,589	May 29	2569	702	23	2098
ead, John A., Graniteville, N. Y. Making rubber shoes and boots, and roller-dies efor	272,308	Feb. 13	888	249	23	607
ed, Benjamin F., Grand Rapids, Mich. Cut-off valve	284,472	Sept. 4	377	105	24	968
ed, David R., Prophetstown, Ill. Aerial railway	287,458	Oct. 30	2122	576	25	412
ed Electric Light and Power Company. (See Olmsted, Joseph, assignor.)						
ed, Joseph, assignor to United States Electric Lighting Company, New York, N. Y., tric-arc lamp	279,103	June 5	612	166, 167, 168	23	2227
ed, Joseph, assignor to Olmsted Electric Light and Power Company, New York, Dynamo-electric machine	290,098	Dec. 11	894	254	25	1051
ed, Oscar B., Beloit, Wis. Detachable rocker	271,907	Feb. 6	390	107	23	509
ed, Oscar B., Chicago, Ill. Drive-well point	287,708	Oct. 30	2459	662	25	477
George B. (See Payne, William H., assignor.)						
Christian, St. John, New Brunswick. Gangway-ladder	290,348	Dec. 18	1213	339	25	1117
Gustav, assignor of one-half to E. A. Rix, San Francisco, Cal. Mining-car	270,689	Jan. 16	1071	307	23	224
Hakon K., Coalville, Utah Ter. Sawing-machine	275,069	Apr. 3	248	69	23	1268
Olaf R. (See Fulton and Olsen.)						
Olaf R., and H. H. Fulton, assignors to E. B. Martindale, Indianapolis, Ind. Pulley	271,108	Jan. 23	1562	455	23	320
Olaf R., Indianapolis, Ind., assignor to Indianapolis Machine and Bolt Works, of ana. Hoop-planer	279,496	June 12	1108	305, 306	23	2319
Olaf R., assignor to Indianapolis Machine and Bolt Works, Indianapolis, Ind. Pul-	280,228	June 26	1981	556	23	2485
Amond. (See Amundson and Olson.)						
Christopher H., Decatur, Ill. Screw-driver	278,261	May 22	2150	590	23	2015
Christopher H., Decatur, Ill. Pinchers for setting box-corners	278,262	May 22	2151	591	23	2015
Holcom, Mariadahl, Kans. Horseshoe	272,750	Feb. 20	1471	413	23	712
Lars O., Chicago, Ill. Bracket	287,853	Nov. 6	73	22	25	520
Nils F., Chicago, Ill. Automatic numbering-machine	283,016	Aug. 14	649	183, 184	24	622
Peter J., assignor of one-half to A. E. Bowe and C. R. Cook, Northfield, Minn. Ma- e for binding grain	273,760	Mar. 13	673	180, 181	23	957
Peter J., assignor of one-half to A. E. Bowe and C. R. Cook, Northfield, Minn. Grain- er	273,761	Mar. 13	678	182, 183	23	958
rski, Alexander, Newark, N. J., assignor to Celluloid Manufacturing Company, New k, N. Y. Apparatus for producing rods or tubes of celluloid or other plastic material	278,667	May 29	2671	730, 731	23	2115
rski, Alexander, Newark, N. J., assignor to Celluloid Manufacturing Company, New k, N. Y. Machine for treating compounds of pyroxyline	280,659	July 3	382	107, 108	24	68
William G., *et al.* (See Schaeffer, Lester A., assignor.)						
etter, Elhanan, Philadelphia, Pa. Underground conduit for electric wires	283,807	Aug. 28	1622	457	24	818
etter, Elhanan, assignor of one-half to A. H. Mershon, Philadelphia, Pa. Vault-cover	275,785	Apr. 10	1196	328	23	1439
lonk, John P., Philadelphia, Pa. Paper bag	277,153	May 8	814	214	23	1772
lonk, John P., Philadelphia, Pa. Paper bag	279,586	June 19	1221	338	23	2345

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Onderdonk, John P., Philadelphia, Pa. Paper bag	279,587	June 19	1222	339	23	2345
Onderdonk, John P., Philadelphia, Pa. Paper bag	279,588	June 19	1222	339	23	2346
Onderdonk, John P., Philadelphia, Pa. Paper bag	279,589	June 19	1222	339	23	2346
Onderdonk, John P., Philadelphia, Pa. Paper bag	279,590	June 19	1223	339	23	2346
Onderdonk, Lansing, Plainfield, N. J., assignor of one-half to H. P. Wells and C. C. Brown. Ruffling and plaiting attachment for sewing-machines	272,309	Feb. 13	889	249, 250	23	607
Oney, R. T., *et al.* (See Ware, Charles L., assignor.)						
Onslow, Adolphe, Jersey City, N. J. Pendulum-scale	281,292	July 17	1188	328, 329	24	233
Onslow, Charles, Port Ewen, N. Y. Music-leaf turner	282,110	July 31	2238	616	24	413
Opdyke, Ida R., Plainfield, N. J. Child's crib	275,070	Apr. 3	249	69	23	1268
Operti, Albert, New York, N. Y. Sectional picture	279,976	June 26	1682	472	23	2432
Opp, Benjamin F., Havana, Ill. Road-engine	287,709	Oct. 30	2460	663	25	477
Oppe, Auguste C. (See Oppe, Ernest W., assignor.)						
Oppe, Ernest W., assignor to A. C. Oppe, New York, N. Y. Mirror attachment for row-boats	278,039	May 22	1863	509	23	1966
Oppel, George A., *et al.* (See Byard, Washington I., assignor.)						
Oppenheimer, Sigmund. (See Davis, Ferdinand E., assignor.)						
Oram, George C., Brooklyn, N. Y., assignor to himself and W. H. Daly, Bergen Point, N. J. Oil-can	274,815	Mar. 27	2015	561	23	1205
Oram, John M., Dallas, Tex. Time-signal for telephones	278,357	May 29	2300	629, 630	23	2050
Oram, John M., Dallas, Tex. Telephone time-signal repeating system	287,710	Oct. 30	2462	663, 664	25	478
Orbeton, William W. S., Lynn, Mass. Window-blind support	272,751	Feb. 20	1472	414	23	713
Orcutt, Edward L., Somerville, Mass. Electric railway-signal	272,464	Feb. 20	1105	312	23	648
Orcutt, Jerome, and C. R. Richards, assignors to Union Metallic Cartridge Company, Bridgeport, Conn. Machine for capping cartridge-shells	279,497	June 12	1110	306	23	2319
Orcutt, William D., assignor of one-half to J. H. Busell, Boston, Mass. Rotary cutter	283,808	Aug. 28	1624	457	24	818
Ord, Edward O. C., Jr., and J. A. Kress, U. S. Army. Range-finder for rifles	277,922	May 22	1718	469	23	1941
Ord, William, Brooklyn, Ohio. Cultivator	287,956	Nov. 6	208	60	25	544
Ordway, Albert H., East Templeton, Mass. Spring rocking-chair	281,124	July 10	969	271	24	178
Orm, John, Paducah, Ky. Machine for swaging saw-teeth	272,465	Feb. 20	1107	313	23	648
Orme, Alexander, Chicago, Ill. Safety-valve	286,148	Oct. 2	449	122	25	83
Ormsby, Edwin A., *et al.* (See Ormsby, William, assignor.)						
Ormsby, Elisha S., Brooklyn, N. Y. Nipper-head for spinning-machines	286,727	Oct. 16	1195	322	25	232
Ormsby, Frank E., Naumburg, N. Y. Combined chimney ventilator and heater	273,589	Mar. 6	453	122	23	912
Ormsby, J. Whitney, Milwaukee, Wis. Lime-bin	270,464	Jan. 9	773	226	23	160
Ormsby, Madison M., David City, Nebr. Fire-escape	283,650	Aug. 21	1416	397	24	769
Ormsby, William, assignor to himself, E. A. Ormsby, Boston, Mass., and W. B. Mendum. Sash-balance	285,505	Sept. 25	1644	462	24	1209
Orne, Charles P., Cambridge, assignor, by mesne assignments, to himself and J. S. Orne, Cambridgeport, Mass. Electric battery	283,355	Aug. 14	1071	301	24	700
Orne, Joel S. (See Orne, Charles P., assignor.)						
Orpen, Henry, St. Louis, Mo. Type-writing machine	279,790	June 19	1448	406	23	2385
Orpen, Henry, St. Louis, Mo. Type-writing machine	284,570	Sept. 4	502	140, 141	24	969
Orr, James H., Ukiah, Cal. Animal-shears	288,104	Nov. 6	390	110	25	575
Orr, Painter and Company. (See Smith, William H., assignor.)						
Orr, R. L. (See Irwin, George L., assignor.)						
Orr, William, Jr., Trenton, N. J. Support for wire-cloth lathing	278,263	May 22	2151	591	23	2015
Orrill, Don. (See Lockwood and Orrill.)						
Ortman, Barnim F., and L. G. Gilbert, Buffalo, N. Y. Grease-cup	278,172	May 22	2028	557	23	1994
Ortman, Barnim F., Buffalo, assignor of one-half to G. Urban, Jr., Cheektowaga, N. Y. Gear-wheel	287,711	Oct. 30	2465	664	25	478
Orton, Benjamin F., *et al.* (See Orton, Chester B., assignor.)						
Orton, Benjamin F., East Saginaw, Mich. Tower for electric lights	280,850	July 10	637	179	24	118
Orton, Benjamin F., East Saginaw, Mich. Tower	290,099	Dec. 11	895	255	25	1051
Orton, Charles F., *et al.* (See Orton, Chester B., assignor.)						
Orton, Chester B., assignor to B. H. Williams, Lawrenceville, Pa., B. F. Orton, East Saginaw, and C. F. Orton, Bay City, Mich. Baling-press	280,325	June 26	2103	590	23	2506
Orton, Lyman O., Philadelphia, Pa. Cutter for planing-machines	286,630	Oct. 16	1071	288	25	210
Orton, Lyman O., Philadelphia, Pa. Saw-guide	288,727	Nov. 20	1191	325	25	728
Orton, Lyman O., Philadelphia, Pa. Governor	288,728	Nov. 20	1192	325	25	728
Orton, Lyman O., Philadelphia, Pa. Table for planing-machines	288,729	Nov. 20	1193	325	25	729
Orton, Lyman O., assignor of one-fourth to R. M. Popham, Philadelphia, Pa. Cross-tie and fastening for railway-rails	290,793	Dec. 25	1806	500	25	1227
Orton, Lyman O., and L. H. Berry, Philadelphia, Pa. Mortising-machine	280,326	June 26	2105	591	23	2507
Orttlöpp, Henrietta S., and J. C. Kloberg, New York, N. Y.; said Kloberg assignor to said Orttlöpp. Imitation feather	282,661	Aug. 7	223	65	24	538
Orum, Morris L., Philadelphia, Pa. Gage-slide for rotary cutters	278,815	June 5	184	53, 54	23	2154
Orvis, Franklin K., Dixon, Ill. Cultivator	275,846	Apr. 17	1283	352, 353	23	1460
Orvis, Franklin K., Dixon, Ill. Cultivator	275,847	Apr. 17	1284	353	23	1460
Orvis, Orel D., New York, N. Y. Steam-boiler and other furnaces	273,299	Mar. 6	72	20, 21	23	496
Orvis, Orel D., and N. B. Adams, New York, N. Y. Street-railway structure and car therefor	285,657	Sept. 25	1823	519, 520	24	1243
Orvis, Orel D., and N. B. Adams, New York, N. Y. Street-subway	288,730	Nov. 20	1194	326	25	729
Orvis, Orland D., Chicago, Ill. Hydrocarbon-furnace	288,477	Nov. 13	875	237, 238	25	668
Orwig, Thomas G., *et al.* (See Moore, James D., assignor.)						
Osborn, Adelbert E., assignor to Model Machine Company, Waco, Tex. Oil-press mat	285,300	Sept. 18	1395	394	24	1160
Osborn, Adelbert E., assignor to Model Machine Company, Waco, Tex. Feed-water regulator	290,100	Dec. 11	897	255	25	1052
Osborn, Adelbert E., assignor to Model Machine Company, Waco, Tex. Fire-kindler	290,997	Dec. 25	2081	573	25	1272
Osborn, Albert I., New Point, Ind. Fence	284,656	Sept. 11	606	171	24	1013
Osborn, Alexander C., Clarksburg, W. Va. Set-works for saw-mills	282,214	July 31	2383	656	24	436
Osborn, Bonnet, *et al.* (See Paine, Henry M., assignor.)						
Osborn, John H., Springfield, Mass., assignor to Leader Sewing Machine Company, Cleveland, Ohio. Sewing-machine treadle	281,392	July 17	1314	363	24	245
Osborn, John H., Springfield, Mass., assignor to Leader Sewing Machine Company, Cleveland, Ohio. Sewing-machine stand	282,559	Aug. 7	106	32	24	518
Osborn, John H., Springfield, Mass., assignor to Leader Sewing Machine Company, Cleveland, Ohio. Needle-clamp and thread-guide for sewing-machines	284,657	Sept. 11	606	171	24	1013

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Osborn, Melzar. (See Johnson and Osborn.)						
Osborn, Oliver S., New Haven, Conn. Landau-carriage-top lock	290,349	Dec. 18	1214	340, 341, 342	25	1117
Osborn, Walter A., Owosso, Mich. Trip-gear for harvester-rakes	280,074	June 26	1805	507, 508	23	2453
Osborne, Charles H. (See Cory, David P., assignor.)						
Osborne & Co., C. S. (See Dixon, David A., assignor.)						
Osborne & Co., D. M. (See Miller, Andrew C., assignor.)						
Osborne, Eugene F., St. Paul, Minn. Steam-heating apparatus for railway-roundhouses	288,848	Nov. 20	1330	365	25	754
Osborne, Henry F., Newark, N. J. Creasing-wheel	275,848	Apr. 17	1285	353	23	1461
Osborne, Henry F., Newark, N. J. Creasing-machine	276,271	Apr. 24	1792	498	23	1558
Osborne, Henry F., Newark, N. J. Leather-creasing wheel	290,262	Dec. 18	1105	310	25	1097
Osborne, John H., Philadelphia, Pa. Button-hole cutter	277,602	May 15	1343	362	23	1867
Osborne, John H., Philadelphia, Pa. Circular-knitting machine	277,603	May 15	1345	362	23	1868
Osborne, John H., Philadelphia, Pa. Knitting-machine	285,155	Sept. 18	1233	346, 347	24	1129
Osborne, John H., Hayt's Corners, N. Y. Neck-yoke	292,918	Aug. 7	524	147	24	593
Osborne, John W., Washington, D. C., assignor to W. H. Forbes, Boston, Mass. Elastic roller	277,154	May 8	815	215	23	1772
Osborne, John W., Washington, D. C., assignor to W. H. Forbes, Boston, Mass. Transferring designs	292,111	July 31	2239	616, 617	24	413
Osborne, John W., Washington, D. C., assignor to W. H. Forbes, Boston, Mass. Method of and apparatus for transferring designs	292,112	July 31	2248	617, 618	24	414
Osborne, John W., Washington, D. C., assignor to W. H. Forbes, Boston, Mass. Pulley, roller, or friction-wheel	287,567	Oct. 30	2261	614	25	440
Osborne, John W., Washington, D. C., assignor to W. H. Forbes, Boston, Mass. Pulley, roller, or wheel	287,568	Oct. 30	2263	614, 615	25	441
Osborne, John W., Washington, D. C., assignor to W. H. Forbes, Boston, Mass. Inking apparatus for printing-presses	287,569	Oct. 30	2268	615	25	441
Osborne, John W., Washington, D. C., assignor to W. H. Forbes, Boston, Mass. Electrical apparatus for and method of controlling paper, &c	287,957	Nov. 6	209	60, 61	25	544
Osborne, John W., Washington, D. C., assignor to W. H. Forbes, Boston, Mass. Pulley, roller, or friction-wheel	289,367	Nov. 27	1962	546	25	878
Osborne, John W., Washington, D. C., assignor to W. H. Forbes, Boston, Mass. Pulley, roller, or wheel	289,368	Nov. 27	1964	547	25	878
Osborne, Owen, Philadelphia, Pa. Cut stocking	288,592	Nov. 13	1012	278	25	693
Osborne, Theodore B. (See Huntington, Lawson G., assignor.)						
Osceola Manufacturing Company. (See Jackson, William J., assignor.)						
Osgood, Byron A. (See Osgood, Edwin P., assignor.)						
Osgood, Byron A., Boston, assignor of one-half to E. P. Osgood, Malden, Mass. Cash-car system	283,917	Aug. 28	1746	493	24	840
Osgood, Edwin P. (See Osgood, Byron A., assignor.)						
Osgood, Edwin P., Malden, Mass., assignor of one-half to B. A. Osgood. Cash-car	290,190	Dec. 11	1002	282	25	1072
Osgood, Enoch, Boston, Mass. Compensating-balance for time-pieces	278,173	May 22	2030	556	23	1995
Osgood, Galen N., Boston, Mass. Cotton-gin	284,223	Sept. 4	87	24	24	919
Osgood, James H., assignor to himself and D. Wilson, Boston, Mass. Horse-hitching device	272,466	Feb. 20	1108	313	23	649
Osgood, James M., Somerville, Mass. Spring shade-roller	280,229	June 26	1961	557	23	2485
Osgood, Josiah A., Boston, Mass. Packing for piston-rods	274,365	Mar. 20	1444	396	23	1098
Osgood, Josiah A., Boston, Mass. Metallic packing	274,816	Mar. 27	2016	561	23	1205
Osgood & MacNaughton. (See Osgood, Ralph R., assignor.)						
Osgood, Ralph R., assignor to Osgood & MacNaughton, Albany, N. Y. Head-block for A-frames of dredges	285,658	Sept. 25	1896	521	24	1243
Oshe, Edward. (See Ungemach and Oshe.)						
Osler, Albert W. (See Wood, Richard G., assignor.)						
Osmer, Friedrich, Brooklyn, N. Y. Apparatus for taking off ammonia from bone-black retorts	287,570	Oct. 30	2269	615	25	441
Osmer, William H., Somonauk, Ill. Frame for horse fly-nets	275,071	Apr. 3	250	69	23	1269
Osmer, William H., and R. M. Grier, Bonfils Station, Mo. Horse-collar pad	284,658	Sept. 11	607	171	24	1013
Oster, Jacob. (See Boch, Philipp, assignor.)						
Oster, Peter G., Cologne-on-the-Rhine, Prussia, Germany. Manufacture of oil as a substitute for linseed-oil	277,331	May 8	1021	.....	23	1808
Osterhage, Frederick, Vincennes, Ind. Sash-lock	285,659	Sept. 25	1828	521	24	1244
Östlund, Carl, Stockholm, Sweden. Cooking-stove	270,690	Jan. 16	1072	307, 308	23	225
Ostmire, William A., Brooklyn, assignor to H. Brewster, J. W. and C. M. Britton, New York, N. Y. Pole-sulky	283,722	Aug. 21	1509	425, 426	24	787
Ostrander, John W., Chicago, Ill. Attachment for applying power to machinery	281,293	July 17	1189	329	24	224
Ostrander, Jonathan, Cleveland, Ohio. Machine for rolling metal bars	274,964	Apr. 3	105	29, 30	23	1243
Ostrogovich, Francesco, assignor to Société Secondo Roos and F. Ostrogovich, Florence, Italy. Automatic printing-telegraph	281,788	July 24	1831	500, 501, 502	24	339
Ostrom, Freeland W., Troy, N. Y. Sewing-machine needle	270,247	Jan. 9	498	147	23	109
Otis, Charles G., New York, N. Y. Steering apparatus	285,835	Oct. 2	64	20	25	14
Otis, Charles R., Yonkers, N. Y. Elevator	271,353	Jan. 30	1896	549	23	382
Otis, Elisha W., Chelsea, Mass. Skate-roller	285,836	Oct. 2	65	20	25	14
Otis, George A., Buffalo, N. Y. Overflow for feed-water heaters	278,590	May 29	2570	702	23	2098
Otis, John D., Peoria, Ill. Clover-harvester	290,599	Dec. 18	1551	428	25	1175
Otis, Samuel L., assignor to A. H. & C. B. Alling, Birmingham, Conn. Machine for sewing bands to knitted work	279,003	June 5	479	130	23	2204
Otstot, John D. (See Thomas and Otstot.)						
Ott, Benedict, *et al.* (See Shoemaker, Jacob, assignor.)						
Ott, Harry B. (See Lang and Ott.)						
Ott, Jacob C., Centralia, Ill. Convertible shaft and tongue for vehicles	290,462	Dec. 18	1375	380	25	1144
Ott, John F., Newark, N. J., assignor to Edison Electric Light Company, New York, N. Y. Regulator for dynamo-electric machines	271,654	Feb. 6	89	23	23	455
Ottawa Gate Manufacturing Company. (See McCurdy, David, assignor.)						
Ottawa Glass Company. (See Zellers, Theodor A., assignor.)						
Ottawa Tile Company. (See Johnson, Ernest V., assignor.)						
Ottenheimer, Albert, Stuttgart, Germany, assignor to Ottenheimer Brothers, New York, N. Y. Corset-clasp	276,978	May 1	578	159	23	1725
Ottenheimer Brothers. (See Ottenheimer, Albert, assignor.)						
Otterson, Thomas G., Philadelphia, Pa., assignor of one-half to J. Wharton, Camden, N. J. Jar-fastener	285,062	Sept. 18	1117	313	24	1109

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Otto, Henry, Bloomington, Ill. Flue-cleaning machine	290,998	Dec. 25	2082	573, 574	25	1272
Otto, Henry, and P. F. Bell, Bloomington, Ill. Balanced slide-valve	290,650	Dec. 18	1616	445	25	1186
Otto, John. (See Gay, William A., assignor.)						
Otto, Nicolaus A., Deutz-on-the-Rhine, Prussia, Germany. Gas-motor engine	288,478	Nov. 13	879	238	25	668
Otto, Nicolaus A., Deutz-on-the-Rhine, Prussia, Germany. Gas-engine	288,479	Nov. 13	880	238	25	669
Otto, Willy. (See Mayrhofer, Carl A., assignor.)						
Ottumwa Iron Works. (See Grotz, Charls, assignor.)						
Oudin, Eugene E. (See Herzog, F. Benedict, assignor.)						
Oudin, Eugene E., New York, N. Y. Imitation stained glass	279,423	June 12	1021	283	23	2305
Oudin, Eugene E., New York, N. Y. Manufacture of imitation stained glass	284,658	Sept. 11	608	.....	24	1013
Ouimet, Adolphe, *et al.* (See Therrien, Louis C., assignor.)						
Oury, Eugene, Cherbourg, assignor to J. A. Lannes, Paris, France. Manufacture of chains	273,139	Feb. 27	1972	554	23	807
Outhwaite, John, Oceola, Ohio. Sash-fastener	285,919	Oct. 2	180	52	25	35
Outlaw, John A., Lewiston, N. C. Hame	287,571	Oct. 30	2270	615	25	441
Overacker, John. (See Flott and Overacker.)						
Overall, George W., Memphis, Tenn. Cistern	274,022	Mar. 13	994	272	23	1012
Overbury, Frank. (See Bushnell, Orsamus, assignor.)						
Overend, Charles E., Portland, Oreg. Carpenter's bevel	282,560	Aug. 7	107	32	24	519
Overhuls, Daniel, Ceralvo, Ky. Fence	286,057	Oct. 2	341	95	25	63
Overland Telephone Company. (See Baxter, Myron L., assignor.)						
Overman, Albert H., Hartford, Conn., and C. F. Hadley, Chicopee, Mass. Tricycle	270,691	Jan. 16	1073	308, 309	23	225
Overman, Albert H., and C. F. Hadley, Chicopee, Mass., assignors to Overman Wheel Company, Hartford, Conn. Tricycle	282,358	July 31	2568	704	24	468
Overman, Albert H., and C. F. Hadley, Chicopee, Mass., assignors to Overman Wheel Company, Hartford, Conn. Velocipede-wheel	283,413	Aug. 21	1140	322	24	718
Overman Wheel Company. (See Overman and Hadley, assignors.)						
Overmeyer, John B. (See Freeman, Alva M., assignor.)						
Overton, James T., Winton, S. C. Plow	280,230	June 26	1963	557	23	2485
Overton, Jesse, Jackson, Tenn. Combined fire-place and cooking-stove	286,058	Oct. 2	342	95	25	63
Oviatt, Solomon E., Willoughby, Ohio. Thrashing-machine	277,055	May 8	685	178	23	1749
Owen, Asa K., Tennessee, Ill. Car-coupling	270,103	Jan. 2	317	93	23	64
Owen, Charles F., Chicago, Ill. Printing-press movement	276,621	May 1	94	25	23	1643
Owen, George B. (See Woodruff, Owen, and Beecher.)						
Owen, George B., Winsted, Conn. Gong-bell. (Reissue)	10,348	July 3	550	153	24	97
Owen, Joseph, New York, N. Y. Fruit-receptacle	282,215	July 31	2383	656	24	436
Owen, Thomas G., assignor to A. H. Parker, Chicago, Ill. Truss	273,590	Mar. 6	454	122	23	912
Owens, Thomas. (See Dulaney and Owens.)						
Owsley, Heaton, assignor to St. Nicholas Toy Company, Chicago, Ill. Making steel wheels	285,763	Sept. 25	1964	556	24	1266
Oyler, Henry, Peru, Ind. Gate	271,109	Jan. 23	1582	455	23	320
Oyston, Charles, Little Falls, N. Y. Nozzle for fire-engines and other purposes	280,759	July 3	518	145	24	92
Pabst, Mathias, Washington, D. C. Preventing overflow from back water	271,110	Jan. 23	1583	455	23	320
Pace, Richard R., Lineville, Ala. Cotton-chopper	281,125	July 10	970	271	24	178
Pace, Richard R., Lineville, Ala. Automatic vehicle-brake	289,698	Dec. 4	419	117	25	959
Pacholder, Morris, Baltimore, Md. Self-adjusting box	282,359	July 31	2568	704	24	468
Paci, Giuseppe, New York, N. Y. Machine for shelling green peas and beans	289,699	Dec. 4	420	118	25	959
Pacific Gas Governor Association. (See Amick, Myron J., assignor.)						
Pacific Tucking and Manufacturing Company. (See Fisher and Hart, assignors.)						
Packard, Fredrick, Brockton, and N. W. Arnold, Abington, Mass. Last for boots and shoes	270,975	Jan. 23	1427	412	23	294
Packard, Henry F. (See Warren and Packard.)						
Packard, Henry R., and W. H. Wilber, assignors of one-third to A. Field Tack Company, Taunton, Mass. Machine for cutting nail, tack, and rivet plates	277,923	May 22	1719	469, 470	23	1941
Packard, Henry R., assignor of one-half to A. Field Tack Company, Taunton, Mass. Machine for trimming and shaping the heads of tacks	289,023	Nov. 27	1546	426, 427	25	800
Packard, James W., Brockton, Mass. Sewing-machine needle	279,498	June 12	1111	306	23	2319
Packard, Nathaniel R., 2d, Brockton, Mass. Congress-gaiter	287,312	Oct. 23	1942	531	25	371
Packard, S. Fremont, Brockton, Mass. Channeling and sole shaping or rounding machine	277,056	May 8	686	179	23	1749
Packard, Wales A., assignor of one-half to W. M. Baker, Urbana, Ohio. Dash-board for vehicles	275,257	Apr. 3	477	133	23	1307
Packer, Charles W., Philadelphia, Pa. Ice-cream freezer	272,752	Feb. 20	1473	414	23	713
Packer, Clinton M., Cambridgeport, Mass. Weather-strip	282,216	July 31	2384	657	24	436
Packer, Ezra L., Toulon, Ill. Buckle	279,424	June 12	1022	284	23	2305
Packer, George W. (See Packer, John F., assignor.)						
Packer, Henry H., Boston, Mass. Punching-machine	272,151	Feb. 13	704	193, 194	23	573
Packer, John F., assignor of one-half to G. W. Packer, Rock Falls, Ill. Hay-loader	282,762	Aug. 7	349	99	24	561
Packham, Frank R., assignor to J. C. Baker, Mechanicsburg, and J. B. Van Doren, Fremont, Ohio. Crimping-tongs	273,382	Mar. 6	189	51	23	866
Paddock, Charles K., St. Louis, Mo. Two-wheeled vehicle	278,358	May 29	2301	630	23	2050
Paddock, John H. (See Farnham, Orison L., assignor.)						
Padmore, Casper P., Philadelphia, Pa. Bicycle	288,849	Nov. 20	1333	365, 366	25	754
Paepke, Oscar F., Indianapolis, Ind. Caster	270,605	Jan. 16	965	279	23	206
Pagan, Orestes, Philadelphia, Pa. Car-axle box	287,572	Oct. 30	2271	616	25	441
Page, Caleb D., Morgan, Colo. Holder for hitching-straps	273,300	Mar. 6	74	21	23	847
Page, Caleb D., Morgan, Colo. Hitching-strap holder	275,695	Apr. 10	1077	294	23	1419
Page, Carlos L., Cambridgeport, Mass. Box-fastener	284,660	Sept. 11	610	172	24	1013
Page, Clark D., Rochester, N. Y. Brick-kiln	286,728	Oct. 16	1197	322, 323	25	232
Page, Clark D., Rochester, N. Y., assignor of one-half to A. Albright. Brick-kiln	286,729	Oct. 16	1199	323	25	233
Page, D. (See Page, La Fayette W. and D.)						
Page, Edward C., and J. B. McCleery, Chicago, Ill. Order-holder	273,301	Mar. 6	75	21	23	847
Page, George K. (See Keller, Henry, assignor.)						
Page, Harry W., and H. Carley; said Carley assignor of one-half to T. McKenna, Long Branch, N. J. Electric alarm for steam-boilers, &c	290,101	Dec. 11	898	255	25	1052
Page, Harvey L., Washington, D. C. Blind and shutter	287,712	Oct. 30	2466	664	25	478
Page, Henry D., and W. E. Raynor, San Bernardino, Cal. Two-wheeled vehicle	274,217	Mar. 20	1254	346	23	1065
Page, John W., Rollin, Mich. Wire lock for fences	285,660	Sept. 25	1898	521	24	1244
Page, La Fayette W., Shreveport, La. Fly-fan	284,224	Sept. 4	88	24	24	919
Page, La Fayette W. and D., Shreveport, La. Car-coupling	288,258	Nov. 13	583	161	25	618
Page, Lewis H., Preston, Conn. Steam-generator	277,848	May 15	1628	443	23	1919
Page, Milton E., *et al.* (See Yancey, William L., assignor.)						
Page, Ostinelle F. (See Emery, Charles L. L., assignor.)						
Page, Rowley, Galesburg, Ill. Indicator for post-office boxes	282,662	Aug. 7	224	65	24	538

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Page, Rowley, Galesburg, Ill. Indicator for post-office boxes	283,918	Aug. 28	1747	493	24	840
Page, T. C. (See Hadley, George W., assignor.)						
Page, T. Nichols, Boston, Mass. Pneumatic door-check	285,156	Sept. 18	1235	347	24	1129
Pagel, J. C. Friedrich, assignor to O. F. Hall, Detroit, Mich. Vehicle-body	284,754	Sept. 11	735	205	24	1035
Pagenhart, Charles L., *et al.* (See Pritchard, Nathaniel J., assignor.)						
Pagenhart, Charles L. (See Taylor and Pagenhart.)						
Paige, William H. (See Bacon and Paige.)						
Paige, William H., Cleveland, Ohio. Car-roofing	287,459	Oct. 30	2123	576	25	412
Paige, William H., Springfield, Mass. Car-wheel	274,218	Mar. 20	1255	346	23	1065
Paige, William H., Springfield, Mass., assignor of one-half to A. Middleton, Philadelphia, Pa. Machine for punching and forming nuts	272,083	Feb. 13	621	168	23	559
Paige, William H., assignor of one-half to D. D. Warren, Springfield, Mass. Sleeping-car	288,361	Nov. 13	716	196	25	640
Pain, Robert W., New York, N. Y., assignor, by mesne assignments, to National Automatic Piano and Organ Manufacturing Company, of New York. Mechanical musical instrument	270,606	Jan. 16	966	279	23	206
Paine, George C., Boston, Mass. Bit-stock	286,840	Oct. 16	1336	365	25	257
Paine, Henry M., assignor to H. W. Morehouse and B. Osborn, Newark, N. J. Magneto-electric machine	290,350	Dec. 18	1214	342	25	1117
Paine, Irving, Hornellsville, N. Y. Shutter	282,663	Aug. 7	225	66	24	539
Paine, John W., Baltimore, Md. Automatic mail-elevator	276,707	May 1	221	57	23	1662
Paine, Tracy L. (See De Garis and Paine.)						
Paine, William H., Brooklyn, N. Y. Gage for elongation and compression of materials under strain	285,661	Sept. 25	1829	522	24	1244
Painter, Jacob A., Arthur, Ill. Vise	276,622	May 1	95	26	23	1644
Painter, Robert M., West Mansfield, Ohio. Thill-coupling	284,053	Aug. 28	1936	541	24	873
Painter, William, Baltimore, Md. Pulley-covering	283,356	Aug. 14	1073	301	24	700
Painter, William, J. L. Murrill, and L. R. Keizer, Baltimore, Md. Machine for flattening the seams of sheet-metal roofing	277,332	May 8	1022	274	23	1808
Pairpoint, Thomas J., New Bedford, Mass. Boot or shoe polishing machine	274,649	Mar. 27	1821	506	23	1171
Paist, Edward. (See Paist, George, assignor.)						
Paist, George. (See Hoopes and Paist.)						
Paist, George, Philadelphia, assignor of one-half to E. Paist, West Chester, Pa. Nut-lock	290,999	Dec. 25	2084	574	25	1272
Palace Marine Berth Company. (See Merrill, Benjamin F., assignor.)						
Palliser, Edward, West Kensington, county of Middlesex, England. Projectile	275,258	Apr. 3	478	133	23	1307
Palmer, Aaron, Rochester, N. Y. Fire-escape	280,231	June 26	1984	557 558	23	2486
Palmer, Aaron, Rochester, N. Y. Fire-escape	290,917	Dec. 25	1962	542	25	1253
Palmer, Albert E., Owosso, Mich. Registering attachment for wood-working machines	273,383	Mar. 6	190	51	23	866
Palmer, Augustus C., Utica, N. Y. Electric annunciator	289,552	Dec. 4	226	63	25	926
Palmer, Cassius C., Oakland, Cal. Safety device for elevators	281,550	July 17	1509	415	24	278
Palmer, Cassius C., Oakland, Cal. Refrigerating apparatus	290,794	Dec. 25	1807	500 501	25	1227
Palmer, Cassius C., Oakland, Cal. Refrigerating apparatus	290,795	Dec. 25	1813	501	25	1228
Palmer, Cassius C., New York, N. Y. Refrigerating-car	290,600	Dec. 18	1552	428 429	25	1175
Palmer, Charles H. (See Lorvea and Palmer.)						
Palmer, Charles H., New York, N. Y., assignor to J. M. Bemis, Boston, Mass., and S. A. Bemis, St. Louis, Mo. Sewing-machine	271,908	Feb. 6	391	107	23	509
Palmer, Dolphas D., Waltham, Mass. Stem-winding mechanism for watches	272,310	Feb. 13	892	230	23	607
Palmer, Edward, West Garland, Me. Whiffletree	283,274	Aug. 14	964	268	24	679
Palmer, Enoch A., Lamartine, Wis. Straw-carrier for thrashing-machines	289,442	Dec. 4	82	24	25	901
Palmer, Frank L., New London, Conn. Printing fabrics	280,075	June 26	1807	508	23	2454
Palmer, Frank L., New London, Conn. Process of and apparatus for picking rags and waste from shoddy	280,076	June 26	1808	509	23	2454
Palmer, Frederic A., New York, N. Y. Mattress or bed-bottom	282,561	Aug. 7	107	32	24	519
Palmer, Frederick. (See Sharpe and Palmer.)						
Palmer, Frederick, Hampton, Va. Locking-latch	276,623	May 1	96	26	23	1644
Palmer, George E., Boston, assignor of one-half to J. Lombard, Cambridgeport, Mass. Electro-galvanic belt	279,881	June 19	1561	436	23	2405
Palmer, George H., *et al.* (See Chamberlain, Blanchard, assignor.)						
Palmer, George H., Fairhaven, Mass., assignor to T. M. Bissett and T. J. Conroy, New York, N. Y. Fishing-reel	281,918	July 24	1994	546	24	366
Palmer, George M., assignor to Williams Manufacturing Company, Plattsburg, N. Y. Sewing-machine	270,104	Jan. 2	318	94	23	65
Palmer, Harry E., *et al.* (See Chamberlain, Blanchard, assignor.)						
Palmer, Henry A., Villisca, Iowa. Car-coupling	286,480	Oct. 9	871	236	25	169
Palmer, Henry S., Santa Ana, Cal. Gang-plow	288,362	Nov. 13	719	196	25	640
Palmer, Isaac E., Middletown Conn. Machine for straightening and finishing fabrics	270,835	Jan. 16	1246	359	23	258
Palmer, Isaac E., Middletown, Conn. Hammock	270,836	Jan. 16	1249	359	23	259
Palmer, Isaac E., Middletown, Conn. Hammock	270,837	Jan. 16	1250	360	23	259
Palmer, Isaac E., Middletown, Conn. Hammock or bed-bottom	271,510	Jan. 30	2098	603	23	418
Palmer, Isaac E., Middletown, Conn. Hammock	272,311	Feb. 13	894	250	23	608
Palmer, Isaac E., Middletown, Conn. Hammock	272,312	Feb. 13	896	251	23	608
Palmer, Isaac E., Middletown, Conn. Delivery apparatus for machines for finishing fabrics	284,323	Sept. 4	203	57	24	938
Palmer, Jeremiah, Brooklyn, N. Y. Attachment for cultivators and planters	278,452	May 29	2414	658 659	23	2070
Palmer, John A. (See Dement and Palmer.)						
Palmer, John D., Patchogue, N. Y. Window-screen	279,862	June 19	1561	437	23	2405
Palmer, John H., New York, N. Y. Feed-bag attachment	289,129	Nov. 27	1676	465	25	824
Palmer, John H., Philadelphia, Pa. Mechanical movement	290,796	Dec. 25	1818	502	25	1238
Palmer, John W., Port Republic, Va. Egg-carrier	285,429	Sept. 25	1569	439	24	1193
Palmer, Joseph, Concord, N. H. Machine for making bands for railway-springs	273,302	Mar. 6	75	21	23	847
Palmer, Noah, *et al.* (See Sauter, Charles, assignor.)						
Palmer, Richard B., Paris, Mo. Centrifugal machine for treating sorghum and other sugars	277,155	May 8	817	215	23	1772
Palmer, Samuel D. (See Dement and Palmer.)						
Palmer, Stephen. (See De Witt, Emil F., assignor.)						
Palmer, Timothy G., Schultzville, N. Y. Torpedo-signal for railways	285,920	Oct. 2	180	52	25	35
Palmer, Wesley S., *et al.* (See Yerby and Stilson, assignors.)						
Palmer, William A., Rome, Ga. Shearing, punching, and riveting machine	284,054	Aug. 28	1936	541	24	873
Palmer, William A., Rome, assignor of one-half to F. W. Mummler, Cartersville, Ga. Key-joint	283,651	Aug. 21	1417	397	24	769

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Palmer, William F. (See Snively and Palmer.)						
Palmer Wire Company. (See Young, Franklin, assignor.)						
Palmer Wire Company. (See Young, Wyman, assignor.)						
Panabaker, Peter F., Coon Rapids, Iowa. Car-coupling	280,949	July 10	760	211	24	139
Pangborn, Charles H., Buchanan, Mich. Platform-gear for wagons	284,225	Sept. 4	89	24	24	919
Pangborn, Samuel B., Boston, Mass. Lantern	285,506	Sept. 25	1646	463	24	1209
Pankhurst, John F., Cleveland, Ohio. Marine steam-windlass	287,050	Oct. 23	1606	443	25	310
Pannster, Gustav, assignor to Modes & Brauer, Plagwitz, near Leipsic, Germany. Christmas-tree stand	280,851	July 10	638	180	24	119
Papineau, Peter, Paxton, Ill. Buggy-pole	290,463	Dec. 18	1376	380	25	1144
Papineau, Peter, Paxton, Ill. Wagon-standard	290,702	Dec. 25	1692	466	25	1205
Pappa, James, Oswego, N. Y. Fire-escape	275,514	Apr. 10	850	230	23	1379
Paquelin, Claude A., Paris, France, assignor to W. V. B. Phillips, Providence, R. I. Carbureting apparatus. (Reissue)	10,358	July 17	1653	450	24	300
Paquette, Joseph, St. Louis, Mo. Banding-machine	288,850	Nov. 20	1334	366	25	755
Paradise, Frank D., Memphis, Tenn. Sash-fastener	288,731	Nov. 20	1195	326	25	729
Parcelle. Albert L. (See Parkhurst, Edward B., assignor.)						
Pardee, Joel S., and A. Morley, New Troy, Mich. Nut-lock	283,506	Aug. 21	1259	353	24	739
Pardessus, Semon J., Brooklyn, N. Y. Fire-escape tower	277,156	May 8	818	215	23	1772
Pardue, John P., St. Louis, Mo. Secretary	279,004	June 5	475	130	23	2204
Parent, Anthony, *et al.* (See Hinden, Mathias J., assignor.)						
Parent, John, Brunswick, Me. Thill-coupling jack	279,005	June 5	476	130	23	2204
Parfitt, Walter E., Brooklyn, N. Y. Latrine and water-closet	284,976	Sept. 11	998	281	24	1063
Pariseault, Stanislas, St. John Baptist, Quebec, Canada. Spring-bed	281,789	July 24	1838	502	24	338
Parish, Heber, Burlington, Iowa. Grain separator and cleaner	287,154	Oct. 23	1737	476	25	335
Park, Aaron, assignor to himself and T. P. Baker, Ottumwa, Iowa. Car-coupling	288,105	Nov. 6	391	110	25	575
Park, Hardy B., Dallas, Tex. Apparatus for forcing liquids from barrels	286,631	Oct. 16	1073	288	25	211
Park, Harvey S., Henderson, Ky. Electro-magnetic car-brake	274,023	Mar. 13	995	273	23	1012
Park, James, assignor to T. E. Haslehurst, Troy, N. Y. Feed-water heater and feeder	275,342	Apr. 3	605	163	23	1328
Park, James, assignor to T. E. Haslehurst, Troy, N. Y. Feed-water heater	289,929	Dec. 11	694	194	25	1015
Park, James, assignor to T. E. Haslehurst, Troy, N. Y. Water heater and feeder	289,930	Dec. 11	695	195	25	1015
Park, James A., assignor of one-half to P. E. Park, Lansing, Mich. Harness-snap	270,105	Jan. 2	318	94	23	65
Park, James A., assignor of one-half to P. E. Park, Lansing, Mich. Breast-strap slide for harness	272,753	Feb. 20	1474	414	23	713
Park, James A., assignor of one-half to P. E. Park, Lansing, Mich. Buckle	272,754	Feb. 20	1474	415	23	713
Park, James A., assignor of one-half to P. E. Park, Lansing, Mich. Buckle	272,755	Feb. 20	1475	415	23	713
Park, James A., assignor of one-half to P. E. Park, Lansing, Mich. Buckle	272,756	Feb. 20	1476	415	23	713
Park, John C., assignor of one-half to A. W. Potts, Jefferson, Ga. Wagon-brake	288,659	Nov. 20	1098	301	25	714
Park, John S., and J. W. Graham, Rockport, Ind. Gland	279,499	June 12	1112	307	23	2319
Park, John S., and J. W. Hackett; said Hackett assignor to W. R. Beeler, Rockport, Ind. Millstone-driver	289,303	Nov. 27	1879	522 523	25	863
Park, Oscar H., and W. H. Elliott, Clarinda, Iowa. Vignetting attachment	286,632	Oct. 16	1074	289	25	211
Park, Puella E. (See Park, James A., assignor.)						
Park, Sallie P., Washington, D. C. Bathing attachment for bird-cages	276,871	May 1	434	115	23	1703
Park, Samuel M., Chicago, Ill. Assorting-machine	283,414	Aug. 21	1140	323	24	719
Park, William R., Taunton, Mass. Mechanical movement	277,849	May 15	1629	444	23	1920
Parke, Amos S., Bay City, Mich. Pump-piston	279,663	June 19	1310	364	23	2361
Parke, Horace D., Syracuse, N. Y. Ironing-table	273,140	Feb. 27	1973	555	23	807
Parke, Richard, assignor to himself and H. Goldberg, New York, N. Y. Wood-filler	281,721	July 24	1746	.....	24	322
Parke, Richard, and H. Goldberg; said Parke assignor to said Goldberg and I. Goodman, New York, N. Y. Composition for size	283,652	Aug. 21	1417	.....	24	770
Parker, Abijah S., Cincinnati, Ohio. Prop for carriage-tops	269,878	Jan. 2	64	20	23	15
Parker, Abijah S., Cincinnati, Ohio. Hub-band	274,136	Mar. 20	1148	316	23	1046
Parker, Abijah S., Cincinnati, Ohio. Carriage-curtain knob-patch fastener	274,137	Mar. 20	1149	316	23	1046
Parker, Andrew H. (See Owen, Thomas G., assignor.)						
Parker, Benjamin, Brooklyn, N. Y. Candy-cutting machine	270,468	Jan. 9	780	228	23	162
Parker, Charles B. and O. B., South Hadley, assignors of one-third to B. P. Glover, Holyoke, Mass. Card-grinder	277,604	May 15	1347	363	23	1868
Parker, Charles B. and O. B., South Hadley, and B. P. Grover, Holyoke, Mass. Card-grinding machine	286,633	Oct. 16	1074	289	25	211
Parker, Charles P., Joliet, Ill. Check-row attachment for seed-planters	281,919	July 24	1996	547	24	366
Parker, Charles W. (See Nichols, Simeon, assignor.)						
Parker, Christopher C., Farlington, Kans. Instrument for treating the vagina and uterus	275,405	Apr. 10	712	190	23	1357
Parker Company, Charles. (See Chapman, Frank H., assignor.)						
Parker Company, Charles. (See Griswold and Chapman, assignors.)						
Parker Company, Charles. (See Griswold and Wooding, assignors.)						
Parker Company, Charles. (See Jones, Augustus H., assignor.)						
Parker Company, Charles. (See Leonard, William G., assignor.)						
Parker Company, Charles. (See Parker and Griswold, assignors.)						
Parker Company, Charles. (See Range, Otis J., assignor.)						
Parker Company, Charles. (See Wooding, Ralph A., assignor.)						
Parker, Dexter W., Meriden, Conn. Extension-chandelier	275,515	Apr. 10	852	230 231	23	1380
Parker, Dexter W., Meriden, Conn. Extension-chandelier	277,057	May 8	686	179	23	1749
Parker, Dexter W., Meriden, Conn. Extension-chandelier	278,359	May 29	2301	630	23	2050
Parker, Dexter W., Meriden, Conn. Lamp-support	278,729	June 5	69	21	23	2136
Parker, Dexter W., and L. F. Griswold, assignors to C. Parker Company, Meriden, Conn. Extension lamp-fixture	282,028	July 24	2125	582	24	387
Parker, Dexter W., and L. F. Griswold; said Griswold assignor to C. Parker Company, Meriden, Conn. Extension library-lamp	285,063	Sept. 18	1119	313	24	1110
Parker, Edward, assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for greasing cartridges	286,059	Oct. 2	343	96	25	63
Parker, Edward H., Eau Claire, Wis., and C. Robinson, Hornellsville, N. Y.; said Parker assignor of one-third to said Robinson. Endless-belt conveyer	284,324	Sept. 4	205	57	24	939
Parker, Edwin L., and S. Peterson, Queensville, Ind. Elevator	282,763	Aug. 7	350	99	24	561
Parker, Emery, New Britain, Conn., assignor to Nashua Lock Company, Nashua, N. H. Striking-plate for locks	279,006	June 5	476	131	23	2204
Parker, Emery, New Britain, Conn., assignor to Nashua Lock Company, Nashua, N. H. Lock-case	281,294	July 17	1191	329	24	294
Parker, George A., Marlborough, N. H. Machine for twisting grass for fuel	272,757	Feb. 20	1477	415	23	714
Parker, George F., Boston, Mass. Maul-stick	289,700	Dec. 4	421	118	25	959
Parker, Henry, New York, N. Y. Drawers	280,232	June 26	1986	558	23	2486
Parker, Henry S., Spencer, Iowa. Cuspidor	284,473	Sept. 4	378	105	24	968
Parker, Hiram, Mount Pleasant, Iowa. Railway-rail coupling	280,760	July 3	519	146	24	92

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Parker, Horatio G., trustee. (See Richardson, Henry M., assignor.) (Reissue.)						
Parker, James F., and C. D. Arnn, Ralston, Tenn. Automatic wagon-brake	276,067	Apr. 17	1541	424	23	1506
Parker, James N., Elkhart, Ind. Machine for grinding mower and reaper knives	287,854	Nov. 6	74	22, 23	25	520
Parker, John H., Malden, Mass. Boot and shoe	284,977	Sept. 11	999	281	24	1083
Parker, John L., Worcester, Mass. Die for forming spinning-ring holders	275,038	Apr. 17	1388	382	23	1480
Parker, John P. E. (See Griswold, Thaddeus M., assignor.)						
Parker, Knight K., Circleville, Ohio. Straw-stacker	286,060	Oct. 2	344	96	25	64
Parker, Lewis C., Robinson, Kans. Gas-engine. (Reissue)	10,290	Feb. 20	1607	450	23	737
Parker, Lewis C., Yonkers, N. Y. Electric igniting device for gas-engines	287,855	Nov. 6	76	23	25	521
Parker, Newton, Pulaski, N. Y. Sled-brake	277,775	May 15	1547	420	23	1905
Parker, Onesipharus B. (See Parker, Charles B. and O. B.)						
Parker, Onesiphorus B. (See Parker and Grover.)						
Parker, Oscar J., and J. Cardy, Cedar Keys, Fla. Insecticide	283,507	Aug. 21	1259	.....	24	739
Parker, Robert G. (See McMellon, Frederick, assignor.)						
Parker, Samuel. (See Davis, Wyrick, and Parker.)						
Parker, Samuel R., and P. P. Deveny, Plymouth, Ohio. Shifting-rail for buggy-seats	280,660	July 3	384	108	24	68
Parker, Samuel W., and H. Blackman, New York, N. Y. Disinfecting apparatus for water-closets	272,758	Feb. 20	1478	416	23	714
Parker, Samuel W., and H. Blackman, New York, N. Y. Fire-escape	289,701	Dec. 4	423	118	25	959
Parker, Sidney, Chicago, Ill. Steam-jet for smoke-consuming furnaces	283,809	Aug. 28	1626	457	24	819
Parker, Sidney, assignor of one-half to E. D. Coxe, Chicago, Ill. Conduit for electric wires	279,977	June 26	1683	473	23	2432
Parker, Stephen D. (See Vance and Parker.)						
Parker, Theodore H., assignor of one-half to C. E. and F. Fuller, Boston, Mass. Electric gas-lighter	286,481	Oct. 9	872	236	25	169
Parker, Thomas S., Schenectady, N. Y. Sewing-machine trimmer	270,465	Jan. 9	774	227	23	160
Parker, Thomas S., Schenectady, N. Y. Sewing-machine trimmer	270,466	Jan. 9	776	227	23	161
Parker, Thomas S., Schenectady, N. Y. Trimming attachment for sewing-machines	270,467	Jan. 9	778	228	23	161
Parker, Washington L., Chicago, Ill. Lubricator	279,592	June 19	1224	340	23	2346
Parker, William F., Madison, Wis. Pillow-sham supporter and lifter	279,978	June 26	1684	473	23	2432
Parker, William S. (See Cook, James W., assignor.)						
Parkes, William E. (See Sutcliffe, Lichfield W., assignor.)						
Parkhill, Clair S., Hornellsville, N. Y. Watch-tower and signal-lantern	271,261	Jan. 30	1770	513	23	359
Parkhill, Joseph H., assignor of one-half to D. O. Quinn, Mount Pleasant, Iowa. Presser-foot for sewing-machines	282,113	July 31	2254	618	24	415
Parkhurst, Amos F., Kewanee, Ill., assignor to E. H. Everett, Newark, Ohio. Bottle-stopper	289,928	Dec. 11	693	194	25	1015
Parkhurst, Ansel E., *et al.* (See Grant, Joseph C., assignor.)						
Parkhurst, Darius, assignor of one-half to G. H. Knight, St. Louis, Mo. Head-block	274,366	Mar. 20	1446	396	23	1098
Parkhurst, Edward B., Woburn, assignor to himself and A. L. Parcelle, Boston, Mass. Electric governor	286,841	Oct. 16	1337	365, 366	25	257
Parkinson, Joseph, Danville, Va. Railway-car	279,791	June 19	1450	406	23	2386
Parks, Calvin M., Washington, D. C. Railway-switch	272,313	Feb. 13	897	251	23	608
Parks, Dana, Boston, Mass. Self-leveling ship's berth	280,233	June 26	1986	558, 559	23	2486
Parks, John A., New York, N. Y. Flask for producing chilled castings	278,174	May 22	2030	558	23	1995
Parks, John A., and G. V. Sheffield, assignors of one-third to E. Hayes, New York, N. Y.; said Sheffield assignor to said Parks and Hayes. Electrical type-writer	280,077	June 26	1809	509	23	2454
Parks, Thomas H., *et al.* (See Lockwood, James F., assignor.)						
Parlin, William H., Canton, Ill. Cultivator	276,272	Apr. 24	1793	498, 499	23	1558
Parmele, Lucius, Mackinaw, Ill. Weather-strip	279,425	June 12	1023	284	23	2305
Parmelee, George E., Circleville, N. Y. Sash-fastener	280,950	July 10	762	211	24	140
Parmelee, Henry S., New Haven, Conn. Car-brake	273,762	Mar. 13	683	183	23	959
Parmelee, William L., assignor to Derby Bit Company, Ansonia, Conn. Bit-stock	281,920	July 24	1997	547	24	367
Parmelee, William L., assignor to Derby Bit Company, Ansonia, Conn. Machine for forming auger-bits	286,554	Oct. 9	966	260	25	186
Parmenter, James S., Woodstock, Ontario, Canada. Device for converting motion	271,909	Feb. 6	392	108	23	510
Parmenter, James S., Woodstock, Ontario, Canada. Fire-escape	285,301	Sept. 18	1397	395	24	1160
Parmenter, Orville L., Cincinnati, assignor to Lima Paper Mill, Lima, Ohio. Egg and fruit carrier	276,273	Apr. 24	1795	499, 500	23	1558
Parmenter, Zenas. (See Bill, Charles H., assignor.)						
Parnall, Alf N. and G. A., Denver, Colo., assignor of one-half to F. Goodrich, New Britain, Conn. Hinge	290,464	Dec. 18	1377	380	25	1145
Parnall, Alfred N. (See Parnall, George A. and A. N.)						
Parnall, George A. (See Parnall, Alf N. and G. A.)						
Parnall, George A. and A. N., assignors to W. E. Scott, Denver, Colo. Adjustable anti-friction bearing	290,601	Dec. 18	1559	429	25	1176
Parnell, Edward W., assignor of one-half to J. Simpson, Liverpool, county of Lancaster, England. Manufacture of alkalies	283,508	Aug. 21	1260	.....	24	739
Parr, John, Humboldt, Nebr. Iron cross-tie	277,333	May 8	1023	274	23	1808
Parr, John, Humboldt, Nebr. Nut-lock	282,114	July 31	2255	619	24	415
Parrett, Polete, Willow Springs, Mo. Picture-frame	276,024	May 1	97	26	23	1644
Parrett, Richard J., Portland, Ind. Window-screen	270,469	Jan. 9	781	228	23	168
Parrish, William H., Richmond, Va. Tub-handle	285,302	Sept. 18	1398	395	24	1160
Parrish, William H., assignor of one-half to G. E. Aiken, Salem, Oreg. Combined header, thrasher, and separator	282,217	July 31	2385	657	24	436
Parry, Charles T. (See Wilder and Parry.)						
Parry, Charles T., Philadelphia, Pa. Machinery for grinding or polishing cross-head guides	270,106	Jan. 2	319	94	23	65
Parry, George T., Philadelphia, Pa. Metallic mercantile bundling-strap	290,351	Dec. 18	1217	342	25	1117
Parry, George T., Philadelphia, Pa. Marine signal-light	290,918	Dec. 25	1963	542	25	1254
Parsels, William C., Ellenville, N. Y. Fire-escape	287,856	Nov. 6	78	23	25	521
Parshall, Charles H., Jr., Detroit, Mich. Lubricator	283,017	Aug. 14	652	184	24	623
Parson, Henry E., New York, N. Y. Ore-pulverizing machine	282,218	July 31	2388	658	24	437
Parsons, Albert S., Huntington, W. Va. Electrical car-brake	270,248	Jan. 9	499	147	23	108
Parsons, Arthur W., Brooklyn, N. Y. Cock	275,406	Apr. 10	713	190	23	1357
Parsons, Charles C., Brooklyn, N. Y. Water-proof compound of mangrove rosin, or cativo, and caoutchouc	278,591	May 29	2571	.....	23	2098
Parsons, Charles E., Medford, Mass., assignor to Brunswick Antimony Company, New Brunswick, Canada. Producing golden sulphuret of antimony	278,816	June 5	186	.....	23	2154
Parsons, Charles H., Shauck's, Ohio. Elliptic spring	278,175	May 22	2031	558	23	1995
Parsons, Henry F., San Francisco, Cal., and H. Borchardt, Bridgeport, Conn., assignors to D. Cook, San Francisco, Cal. Hand rock-drilling machine	281,718	July 24	1734	471, 472	24	320
Parsons, Henry F., San Francisco, Cal., and H. Borchardt, Bridgeport, Conn., assignors to D. Cook, San Francisco, Cal. Rock-drilling machine	281,719	July 24	1739	472, 473	24	321

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Parsons, Henry F., San Francisco, Cal., and H. Borchardt, Bridgeport, Conn.; said Parsons assignor to D. Cook, San Francisco, Cal. Mechanical movement	281,720	July 24	1744	473	24	321
Parsons, John G. (See Clark and Parsons.)						
Parsons, John G. (See McIntyre and Parsons.)						
Parsons, John J. (See Rasmussen, Anders, assignor.)						
Parsons, Josephus, and J. W. Trinkle, Kent, Ind. Piano-violin	272,314	Feb. 13	898	251	23	608
Parsons, Walter, Medford, Mass. Pie-plate	274,219	Mar. 20	1256	346	23	1065
Parsons, Winslow R., Waterloo, Iowa. Braiding attachment for sewing-machines	290,465	Dec. 18	1377	381	25	1145
Parsons, Winslow R., Waterloo, Iowa. Binder and hemmer attachment for sewing-machines	290,787	Dec. 25	1819	502	25	1229
Partridge, Alfred, assignor to E. P. Donnell, Chicago, Ill. Perforating-machine	290,102	Dec. 11	899	256	25	1053
Parvin, John and T. H., Carmi, Ill. Clutch device	270,107	Jan. 2	320	95	23	65
Parvin, Robert C., Mount Holly, N. J. Axle-box	288,851	Nov. 20	1335	366	25	755
Parvin, Thomas H. (See Parvin, John and T. H.)						
Pasmore, Edward J., and C. Y. McClure, Denver, Colo. Piano-panel protector	289,130	Nov. 27	1676	465	25	824
Passeno, Joseph, Washington, D. C. Rowlock	287,155	Oct. 23	1739	476	25	335
Passmore, Everett G., Philadelphia, Pa. Sweeping-machine	283,415	Aug. 21	1142	323	24	719
Patchell, Oswald C. (See Gorton, Patchell, and Gorton.)						
Patee, Theodorus H., Greencastle, Ind. Lightning-rod	282,562	Aug. 7	108	33	24	519
Patee, Theodorus H., and T. D. Ridge, Greencastle, Ind.; said Ridge assignor to said Patee. Tripod-standard for lightning-rods	271,733	Feb. 6	176	47	23	470
Patek, Gottlieb. (See Fichtner, Josef, assignor.)						
Patek, Gustav, Eichwald, near Teplitz, Austria-Hungary. Guide for sewing-machines	271,354	Jan. 30	1898	549	23	382
Patenaude, Cyrille, Helena, Mont. Ter. Miner's candlestick	289,702	Dec. 4	424	118	25	960
Patent Button Company. (See Platt, Clark M., assignor.)						
Patent Flue Thimble Company. (See Campbell, Bryant D., assignor.)						
Patent Marble Veneer Company. (See Matt, Wilhelm, assignor.)						
Patent Marble Veneer Company. (See Matt, Wilhelm, assignor.) (Reissue.)						
Paterson, Edwin, Port Washington, N. Y. Oyster-dredge	279,792	June 19	1451	406	23	2386
Patin, Désiré. (See Grist and Patin.)						
Patric, Charles E., Rochester, N. Y. Fertilizer-distributer	273,883	Mar. 13	833	226	23	985
Patric, Lewis, Springfield, Ohio. Pump	274,965	Apr. 3	107	30, 31	23	1243
Patrick, Alexander, Urbana, Ohio. Extension-table	273,884	Mar. 13	834	226	23	985
Patrick, John J. R., Belleville, Ill. Device for regulating teeth	274,367	Mar. 20	1447	397	23	1098
Patt, William M., Plainville, Mass. Roller-chain	290,798	Dec. 25	1822	502	25	1229
Pattberg, Henry, Jersey City, N. J. Case for toilet-sets	279,272	June 12	820	227	23	2273
Pattberg, Henry, Jersey City, N. J. Wall-case for supporting whisk-brooms	281,393	July 17	1316	364	24	245
Pattee, John A., and J. B. Scovell, Lamar, Mo. Spectacle-case and pencil-holder	287,460	Oct. 30	2124	577	25	412
Pattee, Joseph O. (See Case, Pattee, and Long.)						
Pattee Plow Company. (See Joy, Edwin W., assignor.)						
Pattee Plow Company. (See Pillsbury, Ithamar P., assignor.)						
Pattee, Solon. (See Smith, Alphonso B., assignor.)						
Patten, Enos, Lynn, Mass. Edge-setting machine	285,303	Sept. 18	1399	395	24	1160
Patten, George. (See Woodbury, Merrill, Patten, and Woodbury.)						
Patten, George M., Holbrook, Mass. Combination ice-tool	277,334	May 8	1024	274	23	1809
Patten, Robert E., Bowdoinham, Me. Snow-scraper	289,131	Nov. 27	1677	465	25	824
Patterson, George F., *et al.* (See Carman, John W., assignor.)						
Patterson, George W., Philadelphia, assignor of one-half to A. Carson, Coatesville, Pa. Hub-attaching device	277,425	May 8	1125	302	23	1826
Patterson, Hugh, Albany, N. Y. Air-cock for steam-radiators	274,650	Mar. 27	1822	506	23	1171
Patterson, J. Curtis, Philadelphia, Pa. Car-brake	271,111	Jan. 23	1584	456	23	320
Patterson, J. Curtis, Philadelphia, Pa. Car-brake	285,507	Sept. 25	1647	463	24	1209
Patterson, James, Brooklyn, N. Y. Railway-rail lock	285,662	Sept. 25	1831	522	24	1244
Patterson, James F., Dunmore, W. Va. Apple-mill	275,939	Apr. 17	1390	382	23	1840
Patterson, Jerome, Sharon, Pa. Device for lowering coffins	285,064	Sept. 18	1121	313	24	1110
Patterson, John M. (See Hunnicutt, William H., assignor.)						
Patterson, John M. (See Mahar, Michael W., assignor.)						
Patterson, Louis, South Pueblo, Colo. Helical flanged-wheel motor	289,931	Dec. 11	696	195	25	1015
Patterson, Pembroke J., Chicago, Ill. Pocket hand-stamp	285,837	Oct. 2	66	20	25	14
Patterson, Peter, McKeesport, Pa., assignor to National Tube Works Company, Boston, Mass. Tube-coupling	273,591	Mar. 6	455	122	23	912
Patterson, Stephen J., Bridgeport, Conn. Preparing japanned and enameled leather	282,664	Aug. 7	226	.....	24	539
Patterson, Thomas, Stratford, Ontario, Canada. Spark-arrester	271,910	Feb. 6	393	108	23	510
Patterson, William B., Secor, Ill. Cultivator	281,126	July 10	971	272	24	178
Patterson, William B., Secor, Ill. Automatic grain weigher and register	285,921	Oct. 2	182	52, 53	25	35
Patterson, William D., San Francisco, Cal. Telemeter	279,273	June 12	820	227	23	2273
Patterson, William F., *et al.* (See Kienardt, John A., assignor.)						
Patterson, William J., *et al.* (See Hunseker, Rudolph S., assignor.)						
Patterson, William R., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Pipe for telegraph-cables	271,262	Jan. 30	1771	513	23	360
Patterson, William R., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Insulated electrical conductor	273,593	Mar. 6	458	123	23	913
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Filling telegraph-cables with insulating substances	273,592	Mar. 6	456	122, 123	23	912
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Splice for telegraph-cables	277,335	May 8	1025	275	23	1809
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Binding-post	279,274	June 12	821	227	23	2274
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. System of laying subterranean electrical conductors	281,722	July 24	1747	473, 474	24	322
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Lightning-arrester for electric wires	281,723	July 24	1749	474	24	322
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Apparatus for filling cables with insulating substances	284,226	Sept. 4	90	25	24	920
Pattillo, Robert M., assignor to himself, W. H. Howard, and T. W. Baxter, Cartersville, Ga. Cotton-planter	284,474	Sept. 4	379	105	24	968
Pattison, Catharine A. (See Pattison, Robert J., assignor.)						
Pattison, George H., Freeport, Ill. Corn-sheller	275,259	Apr. 3	479	133	23	1308
Pattison, George H., Freeport, Ill. Gate-hinge	283,416	Aug. 21	1144	323, 324	24	719
Pattison, Robert J., assignor to C. A. Pattison, New York, N. Y. Composition of matter for fire and water proof covering for roofs and walls, &c	284,055	Aug. 28	1038	.....	24	873
Pattison, Rufus P. (See Hall, Charles H., assignor.)						
Pattison, Rufus P., *et al.* (See Yancey, William L., assignor.)						
Patton, Alexander G., assignor to Patton Manufacturing Company, Columbus, Ohio. Waffle-iron	287,713	Oct. 30	2468	665	25	479

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
, Andrew, New Orleans, La. Plow-clevis	278,453	May 29	2418	659	23	2071
Manufacturing Company. (See Patton, Alexander G., assignor.)						
Thomas, Cleveland, Ohio. Pipe-tongs	278,264	May 22	2152	591	23	2015
, William P., Harrisburg, assignor of one-half to C. F. Robertson, Philadelphia,						
Apparatus for generating illuminating or heating gas	281,127	July 10	972	272	24	179
ɔn, William D. C., assignor of two-thirds to H. S. Crowell and E. E. Bond, Marlbor-	290,602	Dec. 18	1561	429, 430	25	1176
, Mass. Railway-telegraph						
ı, Joseph, and L. Wagner, assignors of one-third to P. Delp, Chicago, Ill. Drive-						
	285,430	Sept. 25	1561	439	24	1193
lmarin B., San Francisco, Cal. Amalgamating ores and sands containing gold	285,508	Sept. 25	1647	463	24	1209
mma A., Madison, Wis. Desk-top	272,759	Feb. 20	1479	416	23	714
eorge D., assignor to W. R. Hotchkiss, East Orange, N. J., and H. F. Willard, New						
, N. Y. Canopy-holder for children's carriages	290,103	Dec. 11	900	256	25	1053
ag, William H., New York, N. Y. Chair	272,579	Feb. 20	1258	351	23	675
ag, William H., New York, N. Y. Sleeping-car	272,580	Feb. 20	1259	351	23	675
ag, William H., Peekskill, N. Y. Window-shade	281,128	July 10	975	272	24	179
ag, William H., Peekskill, and B. J. Maybeck, New York, N. Y. Car-seat	281,129	July 10	975	272, 273	24	179
A. W. (See Walton, Thomas, assignor.)						
Archibald W., Wheeling, W. Va. Animal-trap	278,730	June 5	70	21	23	2136
, Joseph A., Mexico, Mo. Detonating railway-track signal	269,955	Jan. 2	158	46	23	33
Peter, Buffalo, N. Y. Device for tapping beer barrels, casks, &c	285,065	Sept. 18	1122	314	24	1110
, Valentine. (See Moehl, Pausch, and Moehl.)						
Samuel, assignor of two-thirds to W. K. Muir and A. P. Cameron, Detroit, Mich.						
:-car	273,141	Feb. 27	1974	555	23	808
Amos B., Newstead, assignor of one-half to J. E. Altenberg, Akron, N. Y. Wash-						
ıachine	270,976	Jan. 23	1429	412	23	294
John C. (See Fleming, Thomas, assignor.)						
, Charles H. (See Coffield, Peter T., assignor.)						
, Edward J., Philadelphia Pa. Temporary binder	283,653	Aug. 21	1418	397	24	770
Benjamin N. (See Oldham and Payne.)						
Benjamin N. and D. W., Corning, N. Y. Steam-boiler	277,426	May 8	1126	302	23	1826
Charles F., *et al.* (See Hodges, Horace F., assignor.)						
David W. (See Payne, Benjamin N. and D. W.)						
Edgar D. (See Mayhew and Payne.)						
Frederick C., New York, N. Y. Cabinet-bedstead	279,426	June 12	1024	284	23	2305
Ira T., Essex, Conn. Auger	270,977	Jan. 23	1429	412	23	294
Joseph B., Wellsburg, N. Y. Self fitting clothing-form	282,685	Aug. 7	227	66	24	539
Joseph M., Dallas, Tex. Vehicle-spring	280,852	July 10	6'8	180	24	119
Martin, Troy, N. Y. Sulky-shaft	270,838	Jan. 16	1250	360	23	259
Newton W., Boston, assignor to himself, B. J. Downs, and J. W. Cook, West						
ırville, Mass. Faucet for beer-barrels	289,703	Dec. 4	425	119	25	960
Robert T., Warm Springs, Va. Car-coupling	286,061	Oct. 2	346	96, 97	25	64
& Sons, B. W. (See Oldham and Payne, assignors.)						
William H., Western, assignor of one-half to G. B. Olney, Westernville, N. Y. Com-						
d for removing rust spots or stains from fabrics	278,176	May 22	2032	.....	23	1995
, James Y., Ipava, Ark. Harrow	279,793	June 19	1452	407	23	2386
ıt, Freeman, Locke Port, Nova Scotia, Canada. Process of and apparatus for ex-						
ing oil from fish liver and blubber	288,106	Nov. 6	392	111	25	575
y, Roswell L., Waltham, Mass. Straight-line watch	281,295	July 17	1191	329	24	224
Company, Harvey W. (See Buell, Frank A., assignor.)						
Company, Harvey W. (See Sloan, Alexander, assignor.)						
Harvey W. (See Boynton and Peace.)						
John G., and E. B. Sankey, Salem, Mo. Car-coupling	284,886	Sept. 11	889	250	24	1063
k, Elijah P., Chicago, Ill. Machine for barbing wire	287,714	Oct. 30	2469	665, 666	25	479
k, Job F., New York, N. Y. Toilet-paper pocket-case	273,594	Mar. 6	458	123	23	913
k, Job F., New York, N. Y., assignor of one-half to A. W. Pierce, Hackensack,						
Manufacture of molded and plastic ware	273,142	Feb. 27	1976	555	23	808
k, Thomas B., Topeka, Kans. Advertising-windmill	274,651	Mar. 27	1823	506	23	1171
John L., New York, N. Y. Oil-can holder	284,661	Sept. 11	611	172	24	1013
Peter P., South Dansville, N. Y. Fire-escape	289,304	Nov. 27	1880	523, 524	25	863
, Frank I., assignor to Link-Belt Machinery Company, Chicago, Ill. Collar for shafting	272,974	Feb. 27	1767	495	23	770
, Frank I., assignor to Link-Belt Machinery Company, Chicago, Ill. Take-up box						
ıaft-journals	277,157	May 8	820	216	23	1772
, Frank I., assignor to Link-Belt Machinery Company, Chicago, Ill. Package-eleva-						
	285,663	Sept. 25	1832	523	24	1244
Frank I., assignor to Link-Belt Machinery Company, Chicago, Ill. Conveyer	285,664	Sept. 25	1833	653	24	1244
, Frank T., and J. Hoagland, Providence, R. I. Bar for watch-chains	284,887	Sept. 11	890	250	24	1063
Frederick, New York, N. Y. District, police, or fire telegraph	288,107	Nov. 6	393	111	25	576
Frederick, New York, and J. Jones, Brooklyn, N. Y. Lock for fire-alarm boxes	280,506	July 3	210	55	24	38
& Hoagland. (See Hoagland, John, assignor.)						
, William, Plantsville, assignor to himself, M. N. Woodruff, and N. A. Barnes,						
ıington, Conn. Ox-shoe	284,888	Sept. 11	890	251	24	1063
George R., assignor of one-half to J. H. Alley, Lynn, Mass. Mechanical movement	272,760	Feb. 20	1480	416, 417	23	714
George R., assignor of one-half to J. H. Alley, Lynn, Mass. Feeding mechanism for	272,761	Feb. 20	1482	417, 418	23	714
ıg-machines						
Harry P. (See Barr, Charles H., assignor.)						
ll, G. Frank E., Brooklyn, N. Y. Folding photographic camera	275,073	Apr. 3	252	70	23	1269
ll, G. Frank E., Brooklyn, N. Y. Photographic dry-plate holder	287,857	Nov. 6	78	24	25	521
n, Charles C., Huntsville, Ala. Pantaloon garment	281,790	July 24	1839	503	24	339
ı, Edward T., Washington, D. C. File-holder	282,360	July 31	2569	704	24	468
n, Henry F. C., assignor of one-half to G. Ripley, Andover, Mass. Method of and						
ıatus for making articles of molded rubber	271,911	Feb. 6	394	108	23	510
n, James H., Bloomfield, Ind. Fence	275,940	Apr. 17	1391	383	23	1481
ı, John M. (See Pearson, William, assignor.)						
n. Joseph W., Newton, Mass. Horse-collar	274,966	Apr. 3	109	31	23	1243
ı, Marshall H., Leeds, county of York, England. Sewing-machine	279,500	June 12	1112	307	23	2319
ı. Marshall H., Leeds, county of York, England, assignor to J. O'Flaherty, Mon-	278,592	May 29	2572	702, 703, 704	23	2098
Canada. Sewing-machine						
ı, Robert P., assignor to C. P. Hoskins, Philadelphia, Pa. Breeching-stay for harness	283,417	Aug. 21	1145	324	24	719

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Pearson, Robert P., assignor to C. Hassenforder, Philadelphia, Pa. Combination-tool	285,304	Sept. 18	1400	396	24	1160
Pearson, William, Linwood, Pa. Machine for uniting knit fabrics	273,143	Feb. 27	1977	555 556	23	808
Pearson, William, Carson City, Nev., assignor to J. M. Pearson, Placerville, Cal. Bottle-filling machine	280,234	June 26	1988	559	23	2486
Pearsons, Galen W., Kansas City, Mo. Machine for lining water or other pipes	274,138	Mar. 20	1149	317	23	1046
Pease, Alfred M. (See Bauder and Pease.)						
Pease, Charles F., Boston, Mass. Shade-pull	280,507	July 3	212	55	24	38
Pease, Franklin B., Ontario Centre, N. Y. Apple-slicer	274,290	Mar. 20	1257	346	23	1065
Pease, Henry C., assignor of one-half to L. J. Pease, Worcester, Mass. Sole-cutting machine for boots and shoes	276,979	May 1	578	152	23	1725
Pease, James L., Chicopee, Mass. Tube-coupling	272,315	Feb. 13	900	252	23	609
Pease, Lester J. (See Pease, Henry C., assignor.)						
Pease, Verne S., *et al.* (See Carleton, Monroe G., assignor.)						
Peavey, Andrew J., Somerville, Mass. Implement for perforating and clipping cigars	282,764	Aug. 7	351	99	24	561
Peavey, Charles A. (See Peavey, Hiram, C. A., and J. H.) (Reissue.)						
Peavey, Hiram, C. A., and J. H., Bangor, Me.; said Hiram Peavey assignor to said C. A. and J. H. Peavey. Cant-hook. (Reissue)	10,336	June 5	635	172	23	2231
Peavey, James H. (See Peavey, Hiram, C. A., and J. H.) (Reissue.)						
Peavey, Lewis, and F. Kiekenapp, Faribault, Minn. Bridle	274,513	Mar. 27	1660	462	23	1142
Pecan, George W., Brooklyn, N. Y. School-slate	270,470	Jan. 9	782	229	23	162
Pech, Joseph, Macomb, Ill. Earthenware vessel	280,661	July 3	385	108	24	68
Peck, Charles C. (See Chapman, William H., assignor.)						
Peck, Charles C., and W. H. Chapman, Middlebury, Vt. Magneto-electric generator	276,274	Apr. 24	1797	500 501	23	1559
Peck, Charles C., and W. H. Chapman, Middlebury, Vt. Dynamo-electric generator	276,275	Apr. 24	1799	501 502	23	1559
Peck, Charles C., and W. H. Chapman, Middlebury, Vt. Electric motor	279,007	June 5	477	131	23	2205
Peck, Charles C., and W. H. Chapman, Middlebury, Vt. Electric motor	279,008	June 5	479	131	23	2205
Peck, Don C., and F. L. Gaylord, Ansonia, Conn. Fender for furniture	290,466	Dec. 18	1379	381	25	1145
Peck, Edmund E., Chelsea, Mass. Recumbent chair	281,794	July 24	1750	474 475	24	323
Peck, Elisha S. (See Farnum, William C., assignor.)						
Peck, Frank S. (See McDaniel, Perrine, and Peck.)						
Peck, Henry S., Corry, Pa. Suspended adjustable chair or seat	285,665	Sept. 25	1834	523	24	1245
Peck, John B., North Attleborough, Mass. Ornamental chain	278,454	May 29	2419	659	23	2071
Peck, Lewis C. (See Linscott, John M., assignor.)						
Peck, Ogle R. (See Brett, George, assignor.)						
Peck, Orrin B., assignor to himself, W. M. Abbott, and J. D. Stevens, Chicago, Ill. Vapor-burner	286,328	Oct. 9	699	186	25	137
Peck, Richard W., Brooklyn, N. Y. Valve-gear for steam-engines	286,062	Oct. 2	347	97	25	64
Peck, T. S., *et al.* (See Hewson, William S., assignor.)						
Peck, Wells M., assignor of one-half to G. Studer, Syracuse, N. Y. Vehicle-spring	273,242	Feb. 27	2007	588	23	828
Peckham, Fenner H., Jr., Providence, R. I. Galvanic battery	285,066	Sept. 18	1123	.....	24	1111
Pedder, James N., Galveston, Tex. Laundry-iron	277,605	May 15	1348	363	23	1868
Pedder, John, Pittsburg, Pa. Method of and mold for casting steel ingots having iron centers	278,593	May 29	2577	704	23	2098
Peddle, William H., Roselle, and S. P. Thornton, Elizabeth, N. J. Railway-signal	287,051	Oct. 23	1610	443	25	310
Peddycord, William F. (See Volkmann, Conrad D., assignor.)						
Pederson, Ole, assignor to R. G. Jordan and D. C. Meehan, Columbus, Ohio. Furniture-caster. (Reissue)	10,304	Apr. 3	618	166	23	1330
Pederson, Ole, assignor, by mesne assignments, to D. C. Meehan and R. G. Jordan, Columbus, Ohio. Furniture-caster. (Reissue)	10,305	Apr. 3	619	166	23	1330
Pederson, Ole, assignor to D. C. Meehan and R. G. Jordan, Columbus, Ohio. Caster. (Reissue)	10,331	May 22	2224	609	23	2028
Pederson, Ole, assignor to D. C. Meehan and R. G. Jordan, Columbus, Ohio. Caster. (Reissue)	10,332	May 22	2225	609	23	2028
Pedrick, Daniel W., Philadelphia, Pa. Chuck for planing valves	284,227	Sept. 4	92	25	24	920
Pedrick, Daniel W., Philadelphia, Pa. Machine for turning and boring	288,953	Nov. 20	1457	402 403	25	778
Peek, William F., Brooklyn, N. Y. Applying impervious coatings to metallic surfaces	273,384	Mar. 6	192	51	23	867
Peeke, George H., *et al.* (See Gowan, James H., assignor.)						
Peeler, Abner, assignor of one-half to W. L. Nicholson, Fort Dodge, Iowa. Roller-skate	291,000	Dec. 25	2084	574	25	1272
Peer, John A., *et al.* (See Magaw, Frederick L., assignor.)						
Peer, John A., Grass Valley, Cal., assignor to Automatic Centering Chuck Company, of New Jersey. Chuck	282,765	Aug. 7	353	99	24	562
Peerless Wire Mattress Company. (See Lorenzen, Immanuel, assignor.)						
Peet, Benjamin F., Springfield, Mass., assignor of one-half to R. T. Young, Brooklyn, N. Y. Seat for bicycles	290,919	Dec. 25	1965	543	25	1254
Peetz, John J., Galveston, Tex. Camel for lightening vessels	287,156	Oct. 23	1740	477	25	336
Peirce, Amos T., Fairhaven, Mass. Car-axle	285,509	Sept. 25	1649	463	24	1210
Peirce, I. Newton, Philadelphia, Pa. Bottle-stopper	271,734	Feb. 6	177	48	23	471
Peirce, I. Newton, Philadelphia, Pa. Spring-fastener for jar-covers	276,276	Apr. 24	1801	502	23	1559
Peirce, James S., Portsmouth, N. H. Artificial stone	282,219	July 31	2389	.....	24	437
Peirce, Robert O., Boston, Mass. Sofa and lounge bed	274,368	Mar. 20	1448	397	23	1099
Peirce, William E., Newark, N. J. Electric time-lock	287,775	Oct. 30	2554	687	25	494
Peironnet, James S., Wheaton, Ill. Fertilizer-distributer	271,912	Feb. 6	396	108	23	510
Peironnet, James S. Wheaton, Ill. Nut-locking device	283,275	Aug. 14	964	269	24	679
Peirson, John W., Philadelphia, Pa. Traveling-satchel	285,305	Sept. 18	1401	396	24	1161
Pelisse, Augustus, Newark, N. J. Hat-sizing machine	276,708	May 1	224	57	23	1663
Pelisse, Augustus, Newark, N. J. Hat-sizing machine	279,664	June 19	1311	364	23	2361
Pelkey, Oliver, Arnot, Pa. Sled-brake	280,508	July 3	212	55	24	38
Pelkey, Sophia, Eau Claire, Wis. Medicine spoon and vial holder	277,924	May 22	1721	470	23	1941
Pelletier, Jules. (See Kolly, Simon E., assignor.)						
Pellier, Louis A., San José, Cal. Sewer-trap	290,603	Dec. 18	1564	430	25	1177
Pelling, William. (See Chambers, Josephus C., assignor.)						
Pelstring, Henry J., Philadelphia, Pa. Hot-air furnace	281,551	July 17	1511	415 416	24	278
Pelton, Charles H., assignor of one-third to J. A. Wheeler, Grand Rapids, Mich. Car-coupling	289,956	Jan. 2	159	46	23	33
Pelton, Edgar J. (See Bacon, Reuben S., assignor.)						
Pelton, George M., Belmont, N. Y. Saw-mill dog	289,853	Dec. 11	604	168	25	999
Pelton, James B., assignor of one-half to D. E. Hammond, Frederick County, Md. Grain-elevator	274,817	Mar. 27	2018	561	23	1205

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Pelton, James B., assignor of one-half to D. E. Hammond, Mount Pleasant, Md. Grain weighing and bagging machine	283,018	Aug. 14	653	184	24	623
Pelton, Jerry M. (See Pelton, Theodore G., assignor.)						
Pelton, John C., Jr., San Francisco, Cal. Furniture-pad	273,885	Mar. 13	835	227	23	985
Pelton, Richard W., Townsend, Sandusky county, assignor of one-half to M. F. and O. P. Cowdery, Sandusky, Ohio. Feed-water heater	270,692	Jan. 16	1076	309	23	225
Pelton, Theodore G., assignor of one-half to J. M. Pelton, Lyons, Iowa. Expanding rose-bit	270,554	Jan. 9	894	259	23	184
Pelz, Rudolph, Baltimore, Md. Stand and rack for newspapers	276,277	Apr. 24	1802	502	23	1559
Pember, Stephen. (See Bird and Pember.)						
Pember, Stephen, and S. Bird, Walpole, Mass. Paper-machine	285,838	Oct. 2	66	21	25	14
Pember, Stephen, and S. Bird, Walpole, Mass. Paper for carpet-linings, &c	285,839	Oct. 2	68	21	25	14
Pendergast, Frederic W., Rochester, Vt. Carriage-seat	280,509	July 3	213	56	24	38
Pendergast, Thomas H., Louisville, Ky. Hame	280,853	July 10	639	180	24	119
Pendergast, Timothy H. (See Forder and Pendergast.)						
Pendleton, Edward B. (See Bickmore, Albion P., assignor.)						
Pendleton, Frank P., *et al.* (See Stamour, John B., assignor.)						
Pendleton, John H., Brooklyn, N. Y., assignor to G. H. Ripley. Machine for scouring, cleaning, and polishing coffee, &c	274,369	Mar. 20	1449	397	23	1099
Pendleton, John H., Brooklyn, assignor to himself and N. W. H. Hix, New York, N. Y., A. H. and C. Tiers, Madison, N. J. Drill	283,509	Aug. 21	1260	353	24	739
Pendry, William A., Detroit, Mich. Valve	282,766	Aug. 7	354	100	24	562
Penfield Block Co. (See More and Tarbox, assignors.)						
Penfield, James W. (See Dawson, Edward, assignor.)						
Penfield, James W. (See Van Winkle, Garrett, assignor.)						
Penfield, James W., Willoughby, Ohio. Brick-kiln	289,024	Nov. 27	1550	{427 428}	25	801
Penfield, James W., Willoughby, Ohio. Roller for crushing and grinding clay	289,025	Nov. 27	1552	428	25	801
Penfield, James W., Willoughby, Ohio. Roller for crushing and pulverizing clay	289,026	Nov. 27	1553	428	25	802
Penfold, Alexander D., Ridgewood, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Label-holder for freight-cars	276,980	May 1	581	{152 153}	23	1725
Peninsular Stove Company. (See Herrick, George W., assignor.)						
Penman, John. (See Schofield, Richard, assignor.)						
Penn, George, and J. D. Whitney, Syracuse, N. Y. Vehicle-spring	277,504	May 15	1225	330	23	1849
Pennebaker, Francis M. and W. F., Pleasant Hill, Ky. Vehicle	280,854	July 10	640	181	24	119
Pennebaker, William F. (See Pennebaker, Francis M. and W. F.)						
Penney, Joseph, Grand Rapids, Mich. Combined dressing-case and wash-stand	272,467	Feb. 20	1110	313	23	649
Pennington, Aaron S., Paterson, N. J. Address or shipping tag	270,108	Jan. 2	321	95	23	65
Pennington, Aaron S., and E. Beggs; said Pennington assignor to A. B. Pennington, Paterson, N. J. Sprinkler. (Reissue)	10,310	Apr. 10	1213	332	23	1441
Pennington, Anna B. (See Pennington and Beggs, assignors.) (Reissue.)						
Pennington, Ellis, Philadelphia, Pa. Horse-brushing machine	290,263	Dec. 18	1107	310	25	1008
Pennock, Homer. (See West, William, assignor.)						
Pennock, Samuel, Kennett Square, Pa. Road-grader	270,693	Jan. 16	1077	309	23	226
Pennock, William H., Mermaid, Del. Cultivator	275,260	Apr. 3	480	134	23	1308
Pennsylvania Steel Company. (See Cummings, Albert G., assignor.)						
Pennybacker, Benjamin R., Jr. (See Nash and Pennybacker.)						
Pennycook, Charles H., Glasgow, county of Lanark, Scotland. Glazing-bar	275,261	Apr. 3	481	134	23	1308
Pennycuick, James G. (See Daly, Michael J., assignor.)						
Penrod, John F., Blairsville Intersection, Pa. Nut-lock	276,872	May 1	435	116	23	1703
Pentz, Albert D. (See Bolton and Pentz.)						
Pentz, Levi, Canton, Ohio. Vehicle-spring	282,563	Aug. 7	109	33	24	519
People's Telephone Company. (See Drawbaugh, Daniel, assignor.)						
Pepper, Marshall, Sidney, Ohio. Curtain-fixture	272,898	Feb. 27	1683	470	23	756
Pepper, Rudolph J. (See Ketchledge and Pepper.)						
Perce, Warren R., Providence, R. I. Type-writing machine	285,840	Oct. 2	69	21	25	15
Percival, Edward. (See Williams, David G., assignor.)						
Percival, Edward, Port Huron, Mich. Tumbler-cleaner	278,040	May 22	1864	509	23	1966
Perez, Mitchel, Houston, Tex. Combined tent and bed	279,593	June 19	1227	340	23	2347
Perez, Pedro E., New York, N. Y. Apparatus for electric telegraphy	274,652	Mar. 27	1824	507	23	1172
Perbáca, Emil M., Brooklyn, and F. Neumüller, New York, N. Y. Caterer's wagon	275,516	Apr. 10	853	231	23	1380
Perkins, C. Lawrence. (See Fowler, William R., assignor.)						
Perkins, Charles G., Camden, N. J. Electric-arc lamp	274,370	Mar. 20	1450	397	23	1099
Perkins, Charles G., Camden, N. J. Electric-current regulator	274,371	Mar. 20	1451	398	23	1099
Perkins, Charles G., Camden, N. J. Switch for incandescent electric lamps	274,653	Mar. 27	1825	507	23	1172
Perkins, Charles G., Camden, N. J. Incandescent electric lamp	274,654	Mar. 27	1827	507	23	1172
Perkins, Charles G., Hoboken, N. J., assignor to Imperial Electric Light Company, New York, N. Y. Incandescent electric lamp and switch	287,313	Oct. 23	1943	531	25	371
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Electric incandescent lamp and holder	287,314	Oct. 23	1946	531	25	372
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Apparatus for carbonizing incandescents	287,315	Oct. 23	1947	532	25	372
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Apparatus for carbonizing incandescents	287,316	Oct. 23	1948	532	25	372
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Apparatus for treating incandescents	287,317	Oct. 23	1949	532	25	372
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Apparatus for treating carbon filaments	287,318	Oct. 23	1950	532	25	373
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Electric incandescent lamp	287,319	Oct. 23	1951	533	25	373
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Automatic electric cut-out	287,320	Oct. 23	1952	533	25	373
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Automatic switch and cut-out	287,321	Oct. 23	1953	533	25	373
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Electric switch and cut-out	287,322	Oct. 23	1954	533	25	374
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Carbon-holder for incandescent lamps	287,323	Oct. 23	1955	534	25	374
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Incandescent electric lamp	290,467	Dec. 18	1380	381	25	1145
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Automatic regulator for storage-batteries	290,468	Dec. 18	1381	382	25	1145
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Electric lamp and switch	290,469	Dec. 18	1383	382	25	1146

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Automatic electric-circuit maker and breaker	290,470	Dec. 18	1386	382 383	25	1146
Perkins, Daniel C. (See Sutton, Benjamin F., assignor.)						
Perkins, Franklin J., Woburn, Mass. Corn-planter	278,455	May 29	2420	660	23	2071
Perkins, Frederick E., Providence, R. I. Fagot-box	290,264	Dec. 18	1108	310 311	25	1096
Perkins, Gardner H., Cazenovia, N. Y. Hay-knife	281,552	July 17	1512	416	24	278
Perkins, George A., assignor, by mesne assignments, to himself and G. A. Fuller, Essex, Mass. Boot and shoe nailing machine	289,443	Dec. 4	84	24	25	901
Perkins, George B., Bridgeport, Conn. Ironing-board	283,810	Aug. 28	1627	458	24	819
Perkins, George C., *et al.* (See Bugbey, Benjamin N., assignor.)						
Perkins, George H. (See Batty, William, assignor.)						
Perkins, George H., Philadelphia, Pa. Apparatus for applying flux to the seams of sheet-metal cans	270,109	Jan. 2	322	95	23	65
Perkins, George H., Philadelphia, Pa. Nail	273,385	Mar. 6	193	52	23	867
Perkins, George H., Philadelphia, Pa. Machine for shearing sheet metal	276,625	May 1	98	26, 27	23	1644
Perkins, George H., Philadelphia, Pa. Can-soldering machine	288,363	Nov. 13	790	197 198	25	641
Perkins, Hazen H., Kewanee, Ill. End-gate for wagons	282,361	July 31	2570	704	24	468
Perkins, Jesse S. (See Cook and Perkins.)						
Perkins, Joel W., East Hampton, Conn. Mechanical toy	279,275	June 12	822	227	23	2274
Perkins, John C., assignor to G. W. Miller and H. G. Haines, Kalamazoo, Mich. Railway hand-car	290,703	Dec. 25	1693	466	25	1205
Perkins, Lyman C., Philadelphia, Pa. Clutch	284,475	Sept. 4	380	106	24	968
Perkins, Martha W. (See Sloat, Frederick, assignor.)						
Perkins, Michael R., Portsmouth, N. H. Railway-rail brace	287,573	Oct. 30	2273	616	25	442
Perkins, Nathaniel S. (See Washburn, Albert L., assignor.)						
Perkins, Nathaniel S. (See Washburn, Albert L., assignor.) (Reissue.)						
Perkins, Orson N., assignor to E. Miller & Co., Meriden, Conn. Shade-holder	286,063	Oct. 2	350	98	25	64
Perkins, Pardon T., Oswego, N. Y. Pump	287,461	Oct. 30	2124	577	25	412
Perkins, Richard B., Hornellsville, N. Y., assignor of one-half to R. P. Heilman, Emporium, Pa. Clothes-pin	272,762	Feb. 20	1485	418	23	715
Perkins, Russell B., assignor to E. Miller & Co., Meriden, Conn. Lamp-fixture	284,889	Sept. 11	891	251	24	1063
Perkins, Russell B., assignor to E. Miller & Co., Meriden, Conn. Chandelier	284,890	Sept. 11	892	251	24	1063
Perkins, Russell B., assignor to E. Miller & Co., Meriden, Conn. Extension-chandelier	285,668	Sept. 25	1837	524	24	1245
Perkins, Russell B., assignor to E. Miller & Co., Meriden, Conn. Extension lamp-fixture	288,852	Nov. 20	1336	367	25	755
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine	272,316	Feb. 13	901	252 253	23	609
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine	287,462	Oct. 30	2127	577 578	25	413
Perkinson, James W., Columbus, and C. E. Merrifield, Indianapolis, Ind. Straw-stacker	275,941	Apr. 17	1392	383	23	1481
Perlich, Hermann, Baltimore, Md. Insect-destroyer	273,144	Feb. 27	1078	556	23	808
Perlich, Hermann, Baltimore, Md. Insect-destroyer	289,553	Dec. 4	227	63	25	926
Perozo, Felipe, *et al.* (See Montejo, Miguel A., assignor.)						
Perrett, Thomas J., Jamestown, N. Y. Device for changing speed	272,763	Feb. 20	1486	418	23	715
Perrett, Thomas J., Jamestown, N. Y. Change-speed mechanism	284,476	Sept. 4	382	106	24	969
Perrin, Thomas J., Brooklyn, N. Y. Electric switch-board	271,913	Feb. 6	397	109	23	511
Perrin, Thomas J., Brooklyn, N. Y. Electrical switch-board	271,914	Feb. 6	398	109	23	511
Perrin, Thomas J., Brooklyn, N. Y. Switch-board for telephone central offices	280,662	July 3	385	108	24	68
Perrin, Thomas J., Brooklyn, N. Y. Telephone switch-board	280,663	July 3	388	109	24	69
Perrin, William J., assignor of one-half to W. F. Freeman, Mineola, Tex. Mechanical power	281,130	July 10	977	273	24	179
Perrine, Upton. (See McDaniel and Perrine.)						
Perrine, Upton. (See McDaniel, Perrine, and Peck.)						
Perrine, William H., New York, N. Y. Fibrous product of bamboo	283,510	Aug. 21	1261	.....	24	739
Perrottet, J. Adolphe, New York, N. Y. Pipe and hose coupling	285,157	Sept. 18	1236	347	24	1129
Perry, Alvy G., Coldwater, Miss. Cotton-seed planter and fertilizer-distributer	290,920	Dec. 25	1966	543	25	1254
Perry, Benjamin F., West Andover, Ohio. Fence	286,956	Oct. 16	1482	407	25	281
Perry, Charles E. (See Kimball and Perry.)						
Perry, Charles E., and H. H. Kimball, Bloomington, Ill. Wrist-pin lubricator	278,817	June 5	187	54	23	2154
Perry, Edward L., Paterson, N. J. Hose or tubing	289,854	Dec. 11	605	169	25	1000
Perry, Eugene L., Parkersburg, Iowa. Straw-stacker for thrashing-machines	270,471	Jan. 9	782	229	23	162
Perry, Francis L., Canandaigua, N. Y. Two-wheeled vehicle	278,041	May 22	1864	509 510	23	1966
Perry, Francis L., Canandaigua, N. Y. Two-wheeled vehicle	280,235	June 26	1990	559 560	23	2487
Perry, Francis L., Canandaigua, N. Y. Two-wheeled vehicle	283,811	Aug. 28	1628	458	24	819
Perry, Henry B., Chicago, Ill. Pneumatic shutter for photographic cameras	287,858	Nov. 6	80	24	25	521
Perry, James L., Berlin, Wis. Abrading cutter-head	273,304	Mar. 6	79	24	23	847
Perry, James L., Berlin, Wis. Abrading-cylinder	285,666	Sept. 25	1834	524	24	1245
Perry, James L., assignor of one-half to C. A. Mather, Berlin, Wis. Wood-polishing machine	273,303	Mar. 6	76	22, 23	23	847
Perry, James M., Sharon, Pa. Nut-lock	277,336	May 8	1026	275	23	1809
Perry, John F., Chicago, Ill. Machine for applying roofing composition to felting	284,891	Sept. 11	892	259	24	1063
Perry, John G., Jr., Nyack, N. Y. Meat-tenderer	274,372	Mar. 20	1453	398	23	1099
Perry, Orsanus E., Whitehall, Mich. Churn-motor	290,799	Dec. 25	1823	502	25	1229
Perry, Robert E. (See Smith, Gary B., assignor.)						
Perry, Samuel P., Auburn, Mass. Milking-stool	272,084	Feb. 13	622	169	23	560
Perry, Samuel P., Auburn, Mass. Milking-stool	287,958	Nov. 6	214	61	25	544
Perry, Stuart, Newport, N. Y. Device for lathing	270,839	Jan. 16	1251	360	23	259
Perry, Stuart, Newport, N. Y. Device for lathing	277,058	May 8	628	179	23	1750
Perry, Stuart, Newport, N. Y. Portable nail-driving machine	279,427	June 12	1025	285 286	23	2306
Perry, Stuart, Newport, N. Y. Device for arranging nails in serial order	282,666	Aug. 7	228	66	24	539
Perry, Stuart, Newport, N. Y. Nail-driver's harness and lath-holder	285,510	Sept. 25	1650	464	24	1210
Perry, Stuart, Newport, N. Y. Implement for feeding nails	285,667	Sept. 25	1835	524	24	1245
Perry, Thomas O., assignor to United States Wind Engine and Pump Company, Batavia, Ill. Double-acting pump	288,108	Nov. 6	395	111 112	25	576
Perry, William A. (See Hines, Perry, and Worthington.)						
Perry, William A. (See Mason, William B., assignor.)						
Perry, William A., *et al.* (See Leavitt, Erasmus D., Jr., assignor.)						
Perry, William H., Sharon, Pa. Spike	270,840	Jan. 16	1253	361	23	259
Perry, William L., Lowell, Mass., assignor to himself and H. F. Worrall. Treadle	271,112	Jan. 23	1585	456	23	320

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
ing, Israel C., *et al.* (See Taylor, William, assignor.)						
m, Anders, and O. Söderberg, Bangor, Me. Emery-wheel	279,009	June 5	482	.....	23	2205
City Plow Company. (See Lane, John, assignor.)						
ager, John S., Brooklyn, N. Y., assignor to W. T. Minor, Stamford, Conn. Machine pending the eyes of elliptic-spring plates	285,922	Oct. 2	184	53	25	36
, Adolph, Brooklyn, assignor to T. Nelson & Sons, New York, N. Y. Book-holding ce	273,886	Mar. 13	836	227	23	985
aft, Bernard, assignor to A. Shenfield, New York, N. Y. Suspenders	277,770	May 15	1547	421	23	1905
r, Alois, assignor to W. H. Peteler, New Dorp, N. Y. Fire-escape ladder	283,654	Aug. 21	1419	397, 398	24	770
r, Francis, Minneapolis, Minn. Power loading apparatus	277,337	May 8	1027	275, 276	23	1809
r, William H. (See Peteler, Alois, assignor.)						
r, William H., New Dorp, N. Y. Sail-hank	277,338	May 8	1029	276	23	1809
nan, John, and S. Smith, Seneca Falls, N. Y. Carpet-stretcher	272,468	Feb. 20	1111	314	23	649
, Alexander F., Millbury, Mass. Sheet-metal elbow for pipes	272,764	Feb. 20	1487	418	23	715
, David A., Hazerstown, Md. Flexible fire-escape ladder	282,362	July 31	2571	705	24	408
, Edward A. (See Berger, Peters, and Chaney.)						
, George M., Columbus, Ohio. Die for making dash-frames	281,553	July 17	1513	416	24	278
, H. G., *et al.* (See Cochran, William J., assignor.)						
, Louis H., Buffalo, N. Y. Pocket-knife	279,704	June 19	1453	407	23	2386
, Mathias, Jr., Chicago, Ill. Car-coupling	270,694	Jan. 16	1079	310	23	226
en, Heinrich, Hamburg, Germany. Centrifugal creaming-machine	288,732	Nov. 20	1196	326	25	729
on, Adolphus, assignor of one-half to S. C. Croft, New York, N. Y. Carpet-exhibitor	280,855	July 10	642	181	24	119
on, August, Kent, Ohio. Clod-crusher	277,059	May 8	690	180	23	1750
on, John, Oakland, Cal. Incubator	271,355	Jan. 30	1899	549	23	382
on, Nelson, Antioch, Cal. Two-wheeled vehicle	279,428	June 12	1031	286	23	2306
on, Peter. (See Fulton, Alfred, assignor.)						
on, Samuel. (See Parker and Peterson.)						
on, Sewell A., *et al.* (See Cole, Wesley, assignor.)						
on, Swan, Knoxville, Ill. Gate	280,664	July 3	390	109	24	69
n, Marie E. (See Martin, Andrew D., assignor.)						
Victor. (See Simon and Petit.)						
cky, Joseph C., Austin, Tex. Cleaner for gun-barrels	289,132	Nov. 27	1678	465	25	824
us, Carl V., Philadelphia, Pa. Manufacture of porous zinciferous alum	269,957	Jan. 2	160	.....	23	34
n, Andrew P., New Albin, Iowa. Cream-gage	289,855	Dec. 11	606	169	25	1000
uin, Louis, Detroit, Mich. Iron fence and telegraph post	273,887	Mar. 13	837	227	23	985
, Jerrid. (See Morse, Fred. H., assignor.)						
one, Robert T., Wyoming, Pa. Scoop	282,363	July 31	2571	705	24	469
sson, Carl, Brooklyn, N. Y. Refrigerator	282,220	July 31	2390	658	24	437
sson, Carl, Brooklyn, N. Y. Refrigerator	282,221	July 31	2392	658	24	437
rew, Albert E., Springfield, Ohio. Ratchet-wrench	285,669	Sept. 25	1839	525	24	1246
rew, Albert E., Springfield, assignor to W. G. Startaman & Co., Cincinnati, Ohio. gon-jack	278,594	May 29	2579	704	23	2099
er, William H., and J. L. Colcord, Augusta, Me. Dust-guard for railway-cars	273,595	Mar. 6	459	123	23	913
igill, George D., Asbury Park, N. J. Earth-auger and lifting and lowering device well-curbing	270,472	Jan. 9	783	229	23	163
, George C. (See Hoggson and Pettis.)						
, Walter C., College Hill, Miss. Gate	275,262	Apr. 3	482	134	23	1308
, Charles H., Jersey City, N. J. Mortising-tool	278,177	May 22	2032	558	23	1995
t, Francis A., Valley Mills, Tex. Cotton chopper and cultivator	277,777	May 15	1548	421	23	1905
en, Arthur G., Toronto, Ontario, Canada. Paint compound	281,131	July 10	978	.....	24	179
en, Arthur G., Toronto, Ontario, Canada. Paint compound or mixture for roofs and ir purposes	280,856	July 10	643	.....	24	120
Alfred. (See Pugh, John W., assignor.)						
n, Cunningham R., assignor to himself and A. A. Birney, Washington, D. C. Ice-per	284,571	Sept. 4	503	141	24	989
n, William J., *et al.* (See Starr, Eli T., assignor.)						
n, William J. (See Starr, Eli T. and E. E., assignors.)						
Rudolf H. (See Thorpe and Pfaff.)						
enstiebl, Charles, New York, N. Y. Bottle-corking machine	274,221	Mar. 20	1258	347	23	1066
Julius P., Lansingburg, N. Y. Check-valve	274,222	Mar. 20	1259	347	23	1066
ler, John M., assignor of part to E. J. Kelsey, J. Sullivan, and J. Sargent, Rochester, [illegible]. Apparatus for regulating the pressure in a series of fermenting-vessels. (Reissue)	10,284	Feb. 6	531	142, 143	23	532
tz, Charles, assignor of one-half to L. Stutz, St. Louis, Mo. Hinge	277,925	May 22	1722	470	23	1942
z, Daniel M., assignor of fifty-two one-hundredths to J. J. Gumpper, W. M. Maul, G. Fields, and J. F. Bacon, Philadelphia, Pa. Spring-motor for vehicles	282,919	Aug. 7	524	148	24	593
r, Christian, Lebanon, Ill. Compound mash-tun	280,396	July 3	68	19	24	15
r, Christian, Buffalo, N. Y. Child's carriage	290,704	Dec. 25	1693	466	25	1206
r, Gustav H. Freiberg, Saxony, Germany. Coffee-roaster	279,179	June 12	715	195	23	2255
r, Louis E. (See Purvis, William B., assignor.)						
r, Louis E., Philadelphia, Pa. Apparatus for glass manufacture	280,397	July 3	70	19	24	15
er, Ernest F., Akron, Ohio. Artificial fish-bait	272,317	Feb. 13	905	253	23	610
er, Ernest F., Akron, Ohio. Paper-weight	279,795	June 19	1454	407	23	2386
er, Ernest F., Akron, Ohio. Artificial fish-bait	284,056	Aug. 28	1938	542	24	873
er, Ernest F., Akron, Ohio. Cuff-button	290,604	Dec. 18	1565	430	25	1177
r, Albert, assignor to R. Moser, Berlin, Germany. Clasp for albums	289,133	Nov. 27	1679	466	25	824
, Edward F., Sacramento, Cal. Portable door-fastener	290,352	Dec. 18	1218	342	25	1117
, Henry N., La Grange, Ark. Elevator attachment to ships' gang-platforms	288,109	Nov. 6	397	112	25	576
n, John, assignor to himself, R. H. Lyon, and W. Acheson, Pittsburg, Pa. Machine making links	283,919	Aug. 28	1748	493, 494	24	840
s, Brigham T., Bellows Falls, Vt. Dress-square	279,979	June 26	1685	473	23	2432
s, Byron, assignor to Deere & Mansur Company, Moline, Ill. Corn-planter	284,662	Sept. 11	612	172	24	1013
s, Byron, assignor to Deere & Mansur Company, Moline, Ill. Corn-planter	284,663	Sept. 11	614	173	24	1014
s, Byron, assignor to Deere & Mansur Company, Moline, Ill. Corn-planter	284,664	Sept. 11	615	173	24	1014
s, Chamberlayne, Westmoreland, N. Y. Holdback for carriages	273,596	Mar. 6	460	124	23	913
s, Charles P., Princeton, Ill. Corn-planter	283,812	Aug. 28	1629	458	24	819
s, Edward B., Springfield, Mass. Music-leaf holder	275,696	Apr. 10	1078	294	23	1419
s, Enoch, Westfield, Mass. Whip-coupling	277,778	May 15	1549	421	23	1905
s, George B., Washington, D. C. Fireproofing and furring device	279,011	June 5	484	132	23	2206
s, George M., Jr., Brooklyn, N. Y., assignor to Western Electric Company, Chicago, Duplicate switch-board for telephone-exchanges	285,670	Sept. 25	1840	525	24	1246
s, George N., assignor of one-half to D. Wadsworth, Brooklyn, N. Y. Extracting ginous and soluble matter from other bodies	288,259	Nov. 13	584	162	25	618

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Phelps, Lucius J., Chicago, Ill. Animal-trap	275,786	Apr. 10	1197	328	23	1439
Phelps, Lucius J., New York, N. Y. Automatic electric-circuit breaker	281,202	July 10	1070	295	24	196
Phelps, Oliver M., and C. Hanson; said Phelps assignor to J. A. Mack, Madison, Wis. Running-gear for vehicles	290,104	Dec. 11	901	256	25	1053
Phelps, Rodney L., Ravenna, Ohio. Grain-cutting machine	287,463	Oct. 30	2129	578	25	414
Phelps, Rodney L., Ravenna, Ohio. Grain-cutting machine	287,464	Oct. 30	2130	578	25	414
Phelps, Walter S., Wortendyke, N. J. Railway-torpedo	285,671	Sept. 25	1841	525	24	1246
Phelps, Walter S., Wortendyke, N. J. Fog-signal for railways	287,157	Oct. 23	1741	477	25	336
Phelps, William M., Marshall, Mich. Mechanical movement	287,574	Oct. 30	2273	616	25	442
Phelps, William P., Philadelphia, Pa., assignor to Railroad Safety Lock and Signal Company, of New Jersey. Electrical train-stopping and signaling apparatus for land-slides	288,480	Nov. 13	881	238 239	25	669
Phenix Machine Company. (See Atherton, Abel T., assignor.)						
Philbrook, Emmeline W., Boston, Mass. Ventilating-screen for windows	286,555	Oct. 9	968	260	25	186
Philips, Ferdinand, Philadelphia, assignor of one-half to J. B. Ford, Hites, Pa. Gas-generator	277,926	May 22	1723	470	23	1942
Philips, William J. (See Barker, George F., assignor.)						
Philips, William J., and G. L. Kitson, Philadelphia, Pa. Motor for drawing wires through tubes	274,818	Mar. 27	2019	562	23	1206
Philips, William J., and G. L. Kitson, Philadelphia, Pa., assignors to said Philips. Electric cable	275,407	Apr. 10	714	191	23	1357
Philips, William J., and G. L. Kitson, Philadelphia, Pa., assignors to said Philips. Machine for manufacturing electric cables	275,408	Apr. 10	715	191	23	1357
Phillies, Philander R., Carmi, Ill. Bed-spring	270,110	Jan. 2	324	95	23	66
Phillips, Edwin S., and S. A. Kealy, Lewisville, Tex. Bolting-reel	274,655	Mar. 27	1928	507	23	1172
Phillips, Elwood C., Richmond, Ind. Roller-skate	280,236	June 26	1992	560	23	2487
Phillips, Elwood C., assignor of one-half to J. Marchant, Richmond, Ind. Self-acting clip for furniture-feet	271,263	Jan. 30	1771	513	23	360
Phillips, Eugene F. (See Sawyer, William H., assignor.)						
Phillips, Franklin D. (See Sorg and Phillips.)						
Phillips, George E. S., Berryville, Va. Combined seed and fertilizer dropper	284,892	Sept. 11	893	252	24	1063
Phillips, George H., assignor of one-half to W. A. Clark, Troy, N. Y. Stove-support	270,978	Jan. 23	1430	412	23	295
Phillips, Harry, Chicago, Ill. Chandelier	273,145	Feb. 27	1979	556	23	808
Phillips, Henry. (See Judd, Garritt P., assignor.)						
Phillips, Henry F., assignor to Sheldon & Co., Auburn, N. Y. Hub-attaching device	282,767	Aug. 7	355	100	24	562
Phillips, Herbert O., assignor to Holmes, Booth & Haydens, Waterbury, Conn. Machine for insulating electric conductors	285,672	Sept. 25	1842	526	24	1246
Phillips, Herbert O., assignor to Holmes, Booth & Haydens, Waterbury, Conn. Insulating electrical conductors	285,673	Sept. 25	1843	526	24	1246
Phillips, Herbert O., assignor to Holmes, Booth & Haydens, Waterbury, Conn. Insulating electric conductors	286,220	Oct. 9	537	147	25	109
Phillips, Herbert O., assignor to Holmes, Booth & Haydens, Waterbury, Conn. Insulated electric conductor	287,776	Oct. 30	2556	688	25	495
Phillips, Hiram B., Palestine, Tex. Hoop-fastening for buckets, &c	272,469	Feb. 20	1111	314	23	649
Phillips, Hiram B., Palestine, Tex. Hoop-fastening for buckets, &c. (Reissue)	10,337	June 5	637	173	23	2231
Phillips, Isaac N., Nashville, Tenn. Station-indicator	285,158	Sept. 18	1237	347	24	1130
Phillips, James C. (See Smith, Jacob A., assignor.)						
Phillips, James L., Worcester, Mass. Globe or similar valve	281,394	July 17	1316	364	24	245
Phillips, John, Boone, Iowa. Snow-plow	286,634	Oct. 16	1077	289 290	25	211
Phillips, John, assignor of one-half to T. F. Howley, Riley's Station, Ky. Bee-hive	272,975	Feb. 27	1769	495	23	770
Phillips, John F. E., Hannibal, Mo. Car-coupling	286,635	Oct. 16	1078	290	25	211
Phillips, John H., New York, N. Y. Boiler-feeder	289,704	Dec. 4	426	119	25	960
Phillips, Oliver O., Allegheny, Pa. Barbed fence	280,857	July 10	643	181	24	120
Phillips, R. B., *et al.* (See Atkinson, Henry C., assignor.)						
Phillips, Russell, assignor of one-half to W. H. Adams, Boston, Mass. Elevator	271,264	Jan. 30	1772	514	23	360
Phillips & Weeden. (See Weeden, Henry C., assignor.)						
Phillips, Whipple V. B. (See Paquelin, Claude A., assignor.) (Reissue.)						
Phillips, William. (See Erdman and Phillips.)						
Phillips, William, Marshfield, Oreg. Locomotive cow-catcher	289,705	Dec. 4	427	119	25	960
Phillips, William P., Somerville, Mass. Lubricator	276,068	Apr. 17	1542	424	23	1506
Phillips, William P., Cambridge, Mass. Regulating sight-feed oil-cup	276,069	Apr. 17	1543	424	23	1507
Phillips, William R., Milford, Del., assignor to Scott Manufacturing Company, Baltimore, Md. Fruit-drier	270,695	Jan. 16	1060	310	23	226
Philp, John, Liverpool, England. Floating rudder for vessels	284,477	Sept. 4	383	106	24	969
Phinney, Frederick, *et al.* (See Foley, Patrick, assignor.)						
Phipps, Azor J., assignor of one-half to O. Davis, Boston, Mass. Wick-trimmer	280,510	July 3	214	56	24	38
Phipps, Daniel L., Millington, Mich. Sash-balance	278,042	May 22	1867	510	23	1967
Phipps, Edward L., Milford, Mich. Knob attachment	273,763	Mar. 13	684	183	23	959
Phipps, Edward L., Milford, Mich. Door-knob attachment	284,893	Sept. 11	894	253	24	1064
Phipps, Edward L., Milford, Mich. Knob attachment	289,305	Nov. 27	1881	524	25	863
Phœnix Iron Company. (See Shaffer, Thomas, assignor.)						
Phreaner, Samuel J., Philadelphia, Pa. Fire-escape ladder	273,386	Mar. 6	195	52	23	867
Piatt, Edward R. (See Piatt, Josiah J. and E. R.)						
Piatt, Josiah J. and E. R., La Porte, Ind. Plow	286,730	Oct. 16	1201	324	25	233
Piatt, William M., West Liberty, Ohio. Grain-binder for harvesters	276,458	Apr. 24	2039	566 567	23	1600
Piatti, Attilio B., New York, N. Y. Hod-elevator	271,113	Jan. 23	1586	456	23	320
Pichler, Franz, and K. Sedlacek, Vienna, Austria-Hungary. Apparatus for purifying and softening water	278,178	May 22	2033	559	23	1995
Pick, Emile, Paris, France. Plastic compound for the manufacture of stone, tiles, &c	281,395	July 17	1317	.....	24	245
Pickenpaugh, James N. (See Fife and Pickenpaugh.)						
Pickering, Barton, Dayton, Ohio. Book-support	284,228	Sept. 4	93	25	24	920
Pickering, Thomas R., Portland, Conn. Machine for grinding drills	282,364	July 31	2573	705	24	469
Pickett, Reuben H. (See Crapon and Pickett.)						
Pickhardt, Wilhelm, *et al.* (See Endemann, Hermann, assignor.)						
Picking, Frank P., Sparkill Independence, Colo. Fuse cutter and capper	276,459	Apr. 24	2042	567	23	1600
Pickwell, Robert, Kingston-upon-Hull, county of York, England. Recording-compass	272,765	Feb. 20	1488	419	23	716
Pidgeon, Francis, assignor to J. S. F. Pidgeon, Saugerties, N. Y. Steam-plow	289,554	Dec. 4	228	64	25	926
Pidgeon, Jeannette S. F. (See Pidgeon, Francis, assignor.)						
Pidgin, Charles F., and F. H. Leonard, Jr., Boston, Mass. Calculating-machine	284,755	Sept. 11	736	205 206	24	1035
Piel, Bernard F. (See Keenan, William, assignor.)						
Piel, William, St. Louis, Mo. Type-case cabinet	285,674	Sept. 25	1843	526	24	1247
Pielsticker, Carl M., London, county of Middlesex, England. Antiseptic	281,554	July 17	1515	.....	24	279

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Piepgrass, Ludwig, Hoboken, assignor to himself and B. Ehler, West Hoboken, N. J. Fire-kindler	284,057	Aug. 28	1939	542	24	873
Pierce, Arthur W. (See Peacock, Job F., assignor.)						
Pierce, Denison C., Chicago, Ill. Railway-frog	276,070	Apr. 17	1543	425	23	1507
Pierce, Denison C., Chicago, Ill. Railway-crossing	285,511	Sept. 25	1650	464	24	1210
Pierce, Dwight E. (See Lloyd and Pierce.)						
Pierce, Ebenezer, New Bedford, Mass. Breech-loading bomb-gun. (Reissue)	10,392	Oct. 9	990	267	25	190
Pierce, Franklin, New York, N. Y. Hod-elevator	283,655	Aug. 21	1420	398	24	770
Pierce, Franklin D., Buffalo, N. Y. Road-engine	274,024	Mar. 13	996	273	23	1013
Pierce, George W. (See Loring and Pierce.)						
Pierce, Henry M., Chicago, Ill. Charcoal-kiln	272,766	Feb. 20	1489	419	23	716
Pierce, Henry M., Chicago, Ill. Manufacturing charcoal	272,976	Feb. 27	1770	495	23	771
Pierce, Henry M., Chicago, Ill. Process of and apparatus for the recovery of turpentine and other wood products and for the manufacture of charcoal	277,505	May 15	1226	330	23	1849
Pierce, Henry M., Chicago, Ill. Process of and apparatus for the manufacture of turpentine	277,506	May 15	1227	330, 331	23	1850
Pierce, Henry M., Chicago, Ill. Distilling and charring wood and kiln therefor	284,058	Aug. 28	1939	542	24	873
Pierce, Henry M., Chicago, Ill. Manufacturing charcoal and kiln therefor	284,059	Aug. 28	1940	542	24	874
Pierce, Henry M., Grand Rapids, Mich. Manufacture of charcoal	278,731	June 5	71	22	23	2136
Pierce, James D., Milwaukee, Wis., assignor, by mesne assignments, to Shields & Brown, Chicago, Ill. Covering for steam-pipes, &c. (Reissue)	10,375	Aug. 28	2078	577	24	897
Pierce, James D., Milwaukee, Wis., assignor, by mesne assignments, to Shields & Brown, Chicago, Ill. Covering for steam-pipes, &c. (Reissue)	10,376	Aug. 28	2079	577	24	897
Pierce, Lucretia V., St. Louis, Mo. Combined stove, table, and cabinet	279,276	June 12	892	228	23	2274
Pierce, Samuel B., La Crosse, Wis. Machine for cutting key-seats	286,221	Oct. 9	538	147	25	109
Pierce, Webster E., trustee. (See Bate, Wallace H., assignor.)						
Pierce, Zenas B., assignor of one-half to H. L. Cushman, Taunton, Mass. Button-machine	279,180	June 12	716	195, 196	23	2255
Pierson, Henry M., Brooklyn, N. Y. Process of and apparatus for manufacturing gas	279,010	June 5	482	131, 132	23	2205
Pierson, Oliver J., *et al.* (See Jones, Frank, assignor.)						
Pietsch, Herman, Flatbush, N. Y. Stench-trap	270,473	Jan. 9	785	230	23	163
Pietsch, Herman, Flatbush, N. Y. Stench-trap	274,139	Mar. 20	1150	317	23	1046
Piette, Ludwig, and F. Krizik, Pilsen, Austria-Hungary. Electric-arc lamp	273,888	Mar. 13	838	227, 228	23	985
Piffard, Henry G., New York, N. Y. Cartridge-shell	272,581	Feb. 20	1260	351	23	675
Piffard, Henry G., New York, N. Y. Recoil-cushion for fire-arms	281,725	July 24	1751	475	24	323
Pigeon, Narcisse, Yonkers, N. Y. Evaporating liquids	290,105	Dec. 11	902	256	25	1053
Pigott, Michael A., St. Louis, Mo. Tire for wheels	289,358	Nov. 27	1948	541	25	875
Pike, Adolph, and S. Schlesinger, Chicago, Ill. Hanger for garments	284,478	Sept. 4	384	106	24	969
Pike, Charles F. (See Collings and Pike.)						
Pike, Charles F., Philadelphia, Pa., assignor, by mesne assignments, to National Anti-Sewer Gas Company, of New Jersey. Water-closet	270,113	Jan. 2	328	96, 97	23	66
Pike, Charles F., Philadelphia, Pa., assignor, by mesne assignments, to National Anti-Sewer Gas Company, Camden, N. J. Cleansing and disinfecting water-closet bowls and their traps	271,357	Jan. 30	1901	550	23	383
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Trap for wash-stands, &c	270,111	Jan. 2	325	96	23	66
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Sealing device for the operating mechanism of water-closets	270,112	Jan. 2	326	96	23	66
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Casing for water-closets	270,333	Jan. 9	603	178	23	127
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Cock for water-closets	270,334	Jan. 9	604	178	23	128
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Water-closet	270,335	Jan. 9	605	178	23	128
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Flexible brush for cleansing water-closets, &c	270,979	Jan. 23	1431	413	23	295
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Water-closet	270,980	Jan. 23	1432	413	23	295
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Water-closet	270,981	Jan. 23	1433	413	23	295
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Water-closet	271,356	Jan. 30	1900	550	23	383
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Cleansing water-closet and other traps	271,358	Jan. 30	1902	550	23	383
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Apparatus for absorbing sewer-gas in water-closets	271,359	Jan. 30	1903	550	23	383
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Water-closet	271,915	Feb. 6	403	109	23	511
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Water-closet	271,916	Feb. 6	404	109	23	511
Pike, Charles F., Philadelphia, Pa., assignor to National Anti-Sewer Gas Company, Camden, N. J. Water-closet	271,917	Feb. 6	405	110	23	512
Pike, Henry. (See Lindsley, Augustus N., assignor.)						
Pilger, August P. (See Reeves, Matthew, assignor.)						
Pilger, John S., and G. H. Knight: said Knight assignor to L. Meier, Cincinnati, Ohio. Canteen	275,697	Apr. 10	1079	295	23	1419
Pillard, Oliver E., Cambridge, Mass. Permutation-lock	270,114	Jan. 2	329	97	23	67
Pillard, Oliver E., Cambridgeport, Mass. Door-lock	271,918	Feb. 6	406	110	23	512
Pillings, George T., Baltimore, Md. Valve-gear for steam-engines	273,597	Mar. 6	461	124	23	913
Pillings, George T., Baltimore, Md. Sectional tubular boiler	276,873	May 1	436	116	23	1703
Pillings, George T., Baltimore, Md. Can-soldering machine	288,481	Nov. 13	882	239	25	669
Pillings, George T., Baltimore, Md. Machine for cutting solder	288,482	Nov. 13	884	240	25	669
Pillings, George T., Baltimore, Md. Machine for cutting can-body blanks	288,733	Nov. 20	1197	326, 327, 328	25	729
Pillsbury, Ithamar P., assignor to Pattee Plow Company, Monmouth, Ill. Nut-lock	274,025	Mar. 13	997	273	23	1013
Pilson, George, Yonkers, N. Y. Safety-dog for elevators	278,595	May 29	2580	704	23	2099
Pindor, James H., *et al.* (See Ring and Bradshaw, assignors.)						
Pine, Charles S., Providence, R. I. Manufacture of lockets	277,339	May 8	1030	276	23	1810
Pine, James K. P. (See Turner and Searle, assignors.)						
Pine, James K. P., Lansingburg, N. Y. Wagon-spring	280,858	July 10	644	182	24	120
Pine, John T., New York, N. Y. Safety-elevator	287,959	Nov. 6	215	61	25	545
Pinhey, Robert E., Oxton, county of Chester, England. Life-saving seat for vessels	284,229	Sept. 4	94	25, 26	24	920

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Pinkham, Edwin, Baltimore, Md. Sail	287,465	Oct. 30	2130	579	25	414
Pinney, Henry L. (See Baker, Augustus H., assignor.)						
Pinney, Henry L., South Windsor, assignor of one-half to A. H. Baker, Hartford, Conn. Railway-switch signal	269,958	Jan. 2	161	47	23	34
Pinson, Benjamin F., Jr., Sullivan, Mo. Horseshoeing implement	275,698	Apr. 10	1079	295	23	1419
Pintard, William, assignor of one-half to D. H. Applegate, Red Bank, N. J. Safety appliance for elevators	286,064	Oct. 2	351	98	25	65
Pinter, Francis T., Schulenburg, Tex. Plow	288,734	Nov. 20	1198	328	25	729
Pintsch, Julius, Berlin, Prussia, Germany. Gas-lantern for railway-cars, &c	280,761	July 3	521	146	24	92
Pintsch, Julius and R., Berlin, Germany, assignors to Pintsch Lighting Company, of New Jersey. Illuminating apparatus	282,115	July 31	2256	619	24	415
Pintsch Lighting Company. (See Humphreys, Alexander C., assignor.)						
Pintsch Lighting Company. (See Pintsch, Julius and R., assignors.)						
Pintsch, Richard. (See Pintsch, Julius and R.)						
Piper, Edward S., Toronto, Ontario, Canada. Signal-lamp	276,278	Apr. 24	1802	502	23	1559
Piper, Edwin J., Springfield, Mass. Paper-ruling machine	284,665	Sept. 11	616	173, 174	24	1014
Piper, Edwin J., Springfield, Mass. Pen-beam standard for ruling-machines	284,666	Sept. 11	618	174	24	1015
Piper, Francis M., Lynn, Mass. Lacing-stud	290,800	Dec. 25	1824	503	25	1229
Piper, Henry B. (See Hoag, Sidney W., Sr., assignor.)						
Piper, J. Frederic, Newport, Ky., assignor to H. Bickford, Cincinnati, Ohio. Device for reaming and tapping	277,507	May 15	1229	331	23	1850
Piper, Jacob M., assignor to A. M. Rank, Adeline, Ill. Top wagon-box fastener	290,705	Dec. 25	1694	466	25	1206
Pipersberg, Franz, Lüttringhausen, Prussia, Germany, assignor to H. Pipersberg, Philadelphia, Pa. Gas-pressure regulator	271,735	Feb. 6	177	48	23	471
Pipersberg, Hermann. (See Pipersberg, Franz, assignor.)						
Pitard, John H., Mobile, Ala. Car-brake	282,222	July 31	2393	658	24	438
Pitchford, John B., San Francisco, Cal. Automatic cut-off for engines	283,656	Aug. 21	1422	398	24	771
Pitchford, John B., San Francisco, Cal. Pillow-block	283,657	Aug. 21	1424	399	24	771
Pitkin, James, Clerkenwell, county of Middlesex, England. Secondary battery	274,373	Mar. 20	1453	398	23	1100
Pitman, John H. (See Borden, Edwin, assignor.)						
Pitney, Albert L., Washington, D. C. Fire-escape	277,340	May 8	1030	276, 277	23	1810
Pittinos, James W., Philadelphia, Pa. Coking coal-dust for manufacturing fuel and gas	279,796	June 19	1455	.....	23	2387
Pittiot, Joanny, Lyons, France. Apparatus for indicating and classifying color-tints	280,665	July 3	391	109	24	69
Pittman, Granville W., Keokuk, Iowa. Bench-vise	277,158	May 8	821	216	23	1773
Pittman, Granville W., Keokuk, Iowa. Wrench	286,842	Oct. 16	1339	366	25	258
Pitts Agricultural Works. (See Aitken, Robert W., assignor.)						
Pitts, George T., Providence, R. I. Button	285,306	Sept. 18	1401	396	24	1161
Pitts, James L. (See Kelly, William, assignor.)						
Pitts, Olin, Newborn, Ga. Back-band hook for harness	272,767	Feb. 20	1491	419	23	716
Pittsburg Hinge Company. (See Trimble, Andrew T., assignor.)						
Pixley, Albert B., Royalton, Vt. Combined rake and tedder	271,265	Jan. 30	1773	515	23	360
Place, James W., *et al.* (See Corbin, Elijah H., assignor.)						
Planetary Wheel Manufacturing Company. (See Yates, Henry G., assignor.)						
Plankinton, William. (See Johnson, Warren S., assignor.)						
Plankinton, William, Milwaukee, Wis. Underground conduit for electric wires	273,305	Mar. 6	80	24	23	847
Plano Manufacturing Company. (See Hunt, George G., assignor.)						
Plano Manufacturing Company. (See Jewett, Nathan, assignor.)						
Plant, George H., Jr. (See Reach, Robert, assignor.)						
Platman, Robert, Bellona, N. Y. Seed-drill and fertilizer-distributer	271,736	Feb. 6	179	48, 49	23	471
Platman, Robert, Bellona, N. Y. Seed-planter and fertilizer-distributer	288,483	Nov. 13	884	240, 241	25	669
Platt, Benjamin G., Bayonne, assignor to J. M. Clark, Jersey City, N. J. Lead or crayon holder	290,191	Dec. 11	1003	283	25	1072
Platt, Clark M., assignor to Patent Button Company, Waterbury, Conn. Rivet-setting machine	270,555	Jan. 9	895	259	23	184
Platt, George W., Greenfield, Mass. Machine for coating pills with gelatine	278,456	May 29	2422	660	23	2072
Platt, James C. (See Gokey, Frank F., assignor.)						
Platt, John. (See Gibson and Platt.)						
Platt, Ralph B., St. Nicholas, Pa. Blasting-needle	288,110	Nov. 6	398	112	25	576
Platt, Thomas, Chester, Pa. Locking attachment for the let-off mechanism of looms	273,889	Mar. 13	839	228	23	926
Platt, William K., Philadelphia, Pa. Fire-extinguisher apparatus	270,332	Jan. 9	601	177	23	127
Platt, William S., Waterbury, Conn. Electrode for secondary batteries	273,598	Mar. 6	462	125	23	913
Platten, John, Sr., Fort Howard, Wis. Cultivator	288,111	Nov. 6	398	112	25	577
Platz, Rudolf, Rottweil, Würtemberg, Germany, assignor to P. Wolf, New York, N. Y. Match	275,074	Apr. 3	254	70	23	1269
Player, John, Marshalltown, Iowa. Packing for stuffing-boxes	284,756	Sept. 11	741	206	24	1036
Playter, Frank, *et al.* (See Robbins, Fabius, assignor.)						
Plecker, D. A., *et al.* (See Dudley, Dana, assignor.)						
Plimpton, Edward S., Denison, Iowa. Mechanism for converting motion	274,374	Mar. 20	1454	398	23	1100
Plimpton, Henry R., Boston, Mass. Sofa-bed	271,919	Feb. 6	407	110, 111	23	512
Plimpton, Linus B. (See Graves, Francis C., assignor.)						
Plimpton, Linus B., Hartford, Conn. Envelope	282,920	Aug. 7	526	149	24	594
Plotner, Schuyler C., South Bend, Ind. Shoe-scraper	270,115	Jan. 2	331	97	23	67
Plowe, Eugene H., Peoria, Ill. Pedal attachment for pianos	283,019	Aug. 14	655	185	24	624
Pluche, James F., assignor to G. J. Porter and C. H. Tubbs & Co., Watertown, N. Y. Folding hammock-support	290,921	Dec. 25	1968	543	25	1254
Plumb & Marcus. (See Webb, George B., assignor.)						
Plume & Atwood Manufacturing Company. (See Atwood, Lewis J., assignor.)						
Plume & Atwood Manufacturing Company. (See Egleston, Thomas, assignor.)						
Plummer, Abner A., assignor of one-half to I. H. Roberts, Putnam, Conn. Steam-boiler	285,923	Oct. 2	185	53	25	36
Plummer, Charles S., Newark, N. J., assignor to Evans, Plummer & Co., New York, N. Y. Ornamental card-board	289,444	Dec. 4	85	24	25	901
Plummer, John A., Jr., and T. Gainford, Newark, Cal. Hand turning-tool	270,474	Jan. 9	785	230	23	163
Plummer, Osgood, Worcester, Mass. Post for drilling-machines	274,026	Mar. 13	998	273	23	1013
Plunkett, James C. (See Newsom, John J., assignor.)						
Plunkett, John W., Dunstall Priory, county of Kent, England. Apparatus for burning gas	280,666	July 3	392	109	24	69
Plush, Samuel M., assignor of one-half to H. Bentley, Philadelphia, Pa. Electric-circuit breaker	282,921	Aug. 7	527	149	24	594
Plymouth Foundry Company. (See Harlow, Ivory W., assignor.)						
Pneumatic Engine Company. (See Ayres, Jared A., assignor.)						
Poage, Walter R., assignor to W. L. Willard, Shelbyville, Mo. Bag and twine holder	288,853	Nov. 20	1337	367	25	755

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Pohl, E. Otto, Philadelphia, Pa. Damper regulator, indicator, and lock	281,726	July 24	1752	475	24	323
Pohl, George D. (See Castle and Pohl.)						
Pohl, Herrmann. (See Vorpahl and Pohl.)						
Pohlmann, Charles, Louisville, Ky. House for producing and preserving ice	275,699	Apr. 10	1080	295	23	1419
Pohlsen, John, Newark, N. J. Light-extinguisher for lamps	280,511	July 3	215	56	24	39
Poindexter, Emmet P., Woburn, Ill. Flood-gate	290,265	Dec. 18	1109	311	25	1098
Points, Alexander G., Staunton, Va. Dinner-pail	281,132	July 10	978	273	24	179
Poland, Edward F. (See Merrihew and Poland.)						
Poland, Melville C. (See Merrihew and Poland.)						
Poling, Totten, assignor of one-half to H. N. Ross, Menlo, Iowa. Running-gear for wagons	273,599	Mar. 6	463	125	23	913
Pollak, Emil, Vienna, Austria-Hungary. Manufacture of artificial leather	270,475	Jan. 9	786	.....	23	163
Pollard, John H., Cedar Rapids, Iowa. Stud-wrench	282,768	Aug. 7	356	100	24	562
Polle, Friederich W., Greenville, Miss. Vent-plug	284,479	Sept. 4	385	107	24	969
Pollmiller, Ferdinand, Eddyville, Iowa. Washing-machine	274,140	Mar. 20	1151	317	23	1046
Pollock, James C., *et al.* (See Ritter, Andrew, Jr., assignor.)						
Pollock, John W., Forty Eight, Tenn. Combined harrow and cultivator	276,071	Apr. 17	1544	425	23	1507
Pollock, Thomas H., Monongahela City, Pa. Apparatus for opening and closing lock-gates	287,575	Oct. 30	2275	617	25	442
Polsdorfer, John H. (See Harper, Robert W., assignor.)						
Polson, John, and J. M. Harley, Paisley, county of Renfrew, Scotland. Manufacture of starch	285,067	Sept. 18	1124	.....	24	1111
Pomeroy, Arthur G. (See Bunce, Thomas A., assignor.)						
Pomeroy, Daniel K., Ottawa, Ontario, Canada. Churn	271,266	Jan. 30	1775	515	23	360
Pomeroy, Daniel K., Ottawa, Ontario, Canada. Creamer	276,460	Apr. 24	2043	568	23	1600
Pomeroy, Henry C., South Bend, Ind. Skate	282,922	Aug. 7	528	149	24	594
Pommer, Frederick, Charleston, assignor of one-half to F. G. Altmann, Kansas City, Mo. Needle-threader for sewing-machines	282,116	July 31	2257	619 620	24	415
Pond, Cephus H., Kasson, assignor to E. H. Pond, Mantorville, Minn. Oil-can	278,179	May 22	2034	559	23	1996
Pond, Ernest H. (See Pond, Cephus H., assignor.)						
Pond, Francis, Hinsdale, assignor to himself and W. M. Pond, Chicago, Ill. Grain-car door	289,445	Dec. 4	86	24, 25	25	902
Pond, Henry E., assignor of one-half to J. G. Ray, Franklin, Mass. Undershoe	272,470	Feb. 20	1112	314	23	649
Pond, Joseph F., Cleveland, Ohio. Steam-engine	286,492	Oct. 9	873	237	25	169
Pond, Joseph F., Cleveland, Ohio. Chimney cowl and ventilator	290,266	Dec. 18	1110	311	25	1098
Pond, Orlando M., assignor to himself and C. D. Jones, Independence, Iowa. Barbed-wire fence	270,116	Jan. 2	332	97	23	67
Pond, W. M. (See Pond, Francis, assignor.)						
Pons, John, assignor of one-half to C. Cook, Baltimore, Md. Steam canal-boat	282,923	Aug. 7	529	150	24	594
Pons, John, assignor of one-half to C. Cook, Baltimore, Md. Ash-sifter	282,924	Aug. 7	530	150	24	595
Pontefract, James G., Pittsburg, Pa. Process of and apparatus for distillation	289,706	Dec. 4	427	119	25	960
Pontious, Lyman F., Adair, Ill. Drain-tile-ditch level	281,133	July 10	979	273	24	180
Pool, Frank V. (See Hyatt and Pool.)						
Pool, Hiram L. P., New Edinburg, Ark. Combined scraper, plow, and cultivator	279,429	June 12	1032	286	23	2306
Pool, John W., Smithfield, N. C. Combined cultivator and planter	289,707	Dec. 4	428	120	25	961
Pool, Joseph, *et al.* (See Lugenbell, Peter, assignor.)						
Poole Company, J. Morton. (See Titus, Odeon H., assignor.)						
Poole, Samuel, assignor to J. J. Tower, Brooklyn, N. Y. Shutter-fastener	287,158	Oct. 23	1744	477	25	336
Poole, Samuel, assignor to J. J. Tower, Brooklyn, N. Y. Pliers for cutting and capping fuse, &c	287,159	Oct. 23	1745	478	25	337
Poole, Thomas S. (See Brown and Poole.)						
Poolman, James, and F. R. Marks, New York, N. Y. Adjustable surgical and invalid chair	278,818	June 5	187	54, 55	23	2154
Poor, George H., Portland, Me., assignor to American Brake Company, St. Louis, Mo. Locomotive-brake	285,068	Sept. 18	1124	314	24	1111
Poor, John O., assignor, by mesne assignments, to himself and R. E. Bean, Franklin, N. H. Pamphlet-holder	287,052	Oct. 23	1612	444	25	311
Poore, Townsend, Scranton, Pa. Motor	282,564	Aug. 7	110	33	24	519
Pope, Alexander, *et al.* (See Goodridge, James F., assignor.)						
Pope, Frank L. (See Gray and Pope.)						
Pope, Frank L., Elizabeth, N. J. Electro-magnetic rheotome	284,480	Sept. 4	386	107	24	969
Pope, Frank L., Elizabeth, N. J. Telegraphic apparatus	284,481	Sept. 4	387	107	24	970
Pope, Frank L., Elmora, N. J. Insulator for electrical conductors	290,922	Dec. 25	1969	543	25	1254
Pope, Henry W., Elizabeth, N. J. Ground-wire clamp for telegraph-lines	283,140	Aug. 14	791	222	24	647
Pope, Henry W., Elizabeth, N. J. Ground-wire clamp	283,276	Aug. 14	965	269	24	679
Pope, John L., Cleveland, Ohio. Railway-rail joint	286,843	Oct. 16	1342	367	25	258
Pope, Joseph T., Horseheads, N. Y. Hand-sled	279,430	June 12	1033	286	23	2307
Pope Manufacturing Company. (See Benham, William P., assignor.)						
Pope Manufacturing Company. (See Handy and Anthony, assignors.)						
Pope Manufacturing Company. (See Knous, John, assignor.)						
Pope Manufacturing Company. (See Wallace, Albert E., assignor.)						
Pope Manufacturing Company. (See Warner, Charles H., assignor.)						
Pope, Owen C., McMinnville, Tenn. Quilting attachment for sewing-machines	271,920	Feb. 6	409	111	23	512
Pope, Richard C., St. Louis, Mo. Curtain-loop	282,365	July 31	2574	706	24	469
Pope, Seth G., Ogdensburg, N. Y. Cutter-head	290,923	Dec. 25	1970	544	25	1255
Popham, Richard M. (See Orton, Lyman O., assignor.)						
Popp, Victor, Paris, France. Apparatus for winding and setting clocks	275,700	Apr. 10	1081	296	23	1419
Popp, Victor, Paris, France. System for pneumatic clocks	275,701	Apr. 10	1082	296	23	1420
Popp, Victor, Paris, France. System of gas-lighting	283,020	Aug. 14	656	185	24	624
Popplewell, George, Bristol, Pa. Head-rest	280,078	June 26	1811	510	23	2454
Port, Henry, Vincennes, France. Convertible tool	290,106	Dec. 11	903	257	25	1054
Porteous, James, Fresno, Cal. Dirt-scraper	275,075	Apr. 3	254	70	23	1269
Porteous, James, Fresno, Cal. Dirt-scraper	289,134	Nov. 27	1679	466	25	824
Porter, Alonzo L., Chicago, Ill. Hinge	283,277	Aug. 14	966	269	24	679
Porter, Andrew C., Senatobia, Miss. Baling-press	284,894	Sept. 11	895	253	24	1064
Porter, Benjamin F., Waukegan, J. P. Bloom, and R. Aspin, South Chicago, Ill. Hoisting-machine	275,849	Apr. 17	1286	353	23	1461
Porter, Benjamin S., assignor to himself and D. B. Miller, Red Oak, Iowa. Two-wheeled vehicle	286,483	Oct. 9	875	237	25	170
Porter, Daniel R., Randolph, assignor of one-half to J. A. Whipple, Boston, Mass. Wrench	278,265	May 22	2153	591	23	2016
Porter, David T., Lawrence, Mass., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Continuous-blast apparatus	280,079	June 26	1812	510	23	2454
Porter, E. W. (See McDonel, Daniel A., assignor.)						
Porter, Edward N., Burlington, Vt. Door-latch	279,797	June 19	1456	407	23	2387
Porter, Edward N., Burlington, Vt. Door-latch	287,715	Oct. 30	2470	666	25	479
Porter, Edwin F. (See Porter, James H. and E. F.)						
Porter, Eugene A., Bowling Green, Ky. Corn crushing and splitting machine	285,512	Sept. 25	1651	464	24	1210

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Porter, George A., Syracuse, N. Y. Steam-boiler	273,387	Mar. 6	196	53	23	867
Porter, George J., *et al.* (See Pluche, James F., assignor.)						
Porter, George J. M., Princeton, Ill. Sewer and drain tile	270,476	Jan. 9	787	230	23	164
Porter, Henry B., Chicago, Ill. Electric telephone	269,879	Jan. 2	65	20	23	15
Porter, Henry H., Littleton, N. H. Lace-fastener	275,942	Apr. 17	1393	384	23	1481
Porter, Henry K. (See Porter, Thomas W. and H. K.)						
Porter, Henry W. (See Hamilton, Silas H., assignor.) (Reissue.)						
Porter, J. Wood, Morris, Ill. Washing-machine	276,072	Apr. 17	1545	425	23	1507
Porter, James H., Boston, Mass. Self-leveling berth	276,874	May 1	436	117	23	1703
Porter, James H., Boston, Mass. Ash-sifter	286,484	Oct. 9	875	237	25	170
Porter, James H. and E. F., Boston, Mass. Self-leveling berth	278,732	June 5	73	22	23	2137
Porter, John F., Red Wing, Minn. Evaporating-pan	285,069	Sept. 18	1126	315	24	1111
Porter, John H., assignor of one-half to J. W. Twiggs, Jackson, Mich. Cylinder-cock steam-escape	290,924	Dec. 25	1971	544	25	1255
Porter, Joseph E., Ottawa, Ill. Sling for hay-elevator ropes	275,850	Apr. 17	1287	354	23	1461
Porter, Major D., Boston, Mass. Nautical signal	285,841	Oct. 2	71	21, 22	25	15
Porter Needle Company. (See Whitehead, Thomas, assignor.)						
Porter, Robert, Ottumwa, Iowa. Horse-collar	271,921	Feb. 6	410	111	23	512
Porter, Robert, Ottumwa, Iowa. Trace-carrier	276,461	Apr. 24	2045	568	23	1600
Porter, Robert, Ottumwa, Iowa. Halter	280,237	June 26	1993	561	23	2487
Porter, Robert, Ottumwa, Iowa. Harness-buckle	282,366	July 31	2575	706	24	469
Porter, Robert, Ottumwa, Iowa. Buckle	283,278	Aug. 14	966	269, 270	24	679
Porter, Samuel M. (See Tarbox, James E., assignor.)						
Porter, Sanford P., West Richfield, Ohio. Broom and dust-pan holder	276,462	Apr. 24	2046	568	23	1600
Porter, Stephen, Boston, Mass. Door-check	283,658	Aug. 21	1425	399	24	771
Porter, Thomas J., assignor of one-half to J. H. Hicks, Talladega, Ala. Pea thrasher and separator	287,324	Oct. 23	1956	534	25	374
Porter, Thomas W., Chelsea, Mass. Standard for carriage-tops	285,070	Sept. 18	1127	315	24	1111
Porter, Thomas W., Chelsea, and H. K. Porter, Boston, Mass. Spring-shackle	285,071	Sept. 18	1128	315	24	1111
Porter, Wallace, New Haven, Conn. Planer-chuck	287,160	Oct. 23	1746	478	25	337
Porter, Walter L., Emlenton, Pa. Lifting-jack	284,482	Sept. 4	389	107	24	970
Post, Anna L. (See Post, Garrett D., assignor.)						
Post, Charles F. (See Post, John W. and C. F.)						
Post, Charles W., Springfield, Ill. Cultivator	279,980	June 26	1686	473	23	2432
Post & Co. (See Anderson, Charles, assignor.)						
Post & Co. (See Hamlin, Everlyn B., assignor.)						
Post & Co. (See Kirby, John, Jr., assignor.)						
Post, Garrett D., assignor to A. L. Post, Mariner's Harbor, N. Y. Knockdown table	272,471	Feb. 20	1113	314	23	649
Post, John W., New York, N. Y. Sewing-machine	281,296	July 17	1192	330	24	224
Post, John W., New York, N. Y. Railway-car	285,675	Sept. 25	1844	527	24	1247
Post, John W., New York, N. Y. Sewing-machine	287,576	Oct. 30	2277	617, 618	25	443
Post, John W. and C. F., New York, N. Y. Velocipede	285,513	Sept. 25	1652	464, 465	24	1210
Post, Nathan L., Cleveland, Ohio. Stove-cover lifter	272,472	Feb. 20	1114	315	23	650
Post Refrigerator Car Company. (See Post, William S., assignor.)						
Post Refrigerator Car Company. (See Waters, Robert H., assignor.)						
Post, William S., Boston, Mass., assignor to Post Refrigerator Car Company, Portland, Me. Refrigerating structure	288,260	Nov. 13	585	162	25	618
Postawka, Louis, Cambridgeport, Mass. Detachable and adjustable seat-back	274,375	Mar. 20	1455	399	23	1100
Posz, Henry W., Winona, Minn. Foot-power	287,716	Oct. 30	2472	666	25	480
Pott, Henry A., Cape Girardeau, Mo. Harness-loop	270,477	Jan. 9	789	230	23	164
Potter, Albert G. (See Glazier, George W., assignor.)						
Potter, Bradford S. (See Farrington, George K. and H. C., assignors.)						
Potter, Charles W. (See Cullingworth and Potter.)						
Potter, Charles W., New York, N. Y. Compressed-air motor	270,982	Jan. 23	1434	413, 414	23	295
Potter, Charles W., assignor to Sergeant & Cullingworth Company, New York, N. Y. Water-pump attachment for air-compressors	287,325	Oct. 23	1957	534	25	374
Potter, Edmund P., and W. H. Higgin, Bolton, county of Lancaster, England. Manufacture of bicarbonate of soda	279,431	June 12	1033	.....	23	2307
Potter, Herman M., Williamsport, Pa. Watch-maker's lathe	288,854	Nov. 20	1338	367	25	755
Potter, James, Chicago, Ill. Griddle or pan lubricator	279,181	June 12	717	196	23	2256
Potter, James, assignor to Whitehead & Atherton Machine Company, Lowell, Mass. Carding-machine	280,238	June 26	1995	561	23	2488
Potter, James, assignor to A. T. Atherton, Lowell, Mass. Carding-machine	286,065	Oct. 2	352	98	25	65
Potter, James D., Portland, Me. Heating device	275,409	Apr. 10	717	191	23	1358
Potter, John F., Bellefonte, Pa. Necktie-fastener	288,735	Nov. 20	1199	328	25	730
Potter, Nathaniel F., and W. H. Fenner, Jr., Providence, R. I. Blackboard	290,651	Dec. 18	1617	.....	25	1186
Potter, Samuel A., Cincinnati, Ohio, assignor of one-half to H. M. Howard. Bicycle	287,717	Oct. 30	2472	666	25	480
Potter, Thomas O., Boston, Mass. Suspenders	280,859	July 10	645	182	24	120
Potter, William E. N., Malden, Mass. Loom-shuttle threader	286,731	Oct. 16	1201	324	25	233
Potter, Wilson L., Hartford, Conn. Belt-fastening	270,117	Jan. 2	333	98	23	67
Pottier and Stymus Manufacturing Company. (See Reinl, John G., assignor.)						
Pottinger, T. J., *et al.* (See Le Grande, William W., assignor.)						
Pottinger, Thomas J., Louisville, Ky. Electrical connection for railway-signals	287,466	Oct. 30	2131	579	25	414
Potts, Antony W. (See Park, John C., assignor.)						
Potts, George, Indianapolis, Ind. Tile-machine	274,514	Mar. 27	1661	462	23	1142
Potts, George C., *et al.* (See Hughes, Henry A., assignor.)						
Potts, Joseph C., Berwyn, assignor to himself and J. H. Coates, Philadelphia, Pa. Weaving imitation seersucker fabric	284,145	Aug. 28	2059	571	24	893
Potts, William C. (See Gathright, Albert P., assignor.)						
Pound, Hugh, Portage, Wis. Slop-bucket	289,135	Nov. 27	1681	466	25	825
Pountney, William, Port Jervis, N. Y. Lamp-kettle	281,791	July 24	1840	503	24	339
Pountney, William, Port Jervis, N. Y. Glass lamp-chimney	289,932	Dec. 11	696	195	25	1015
Pouvert, Louis J. (See Davis, John T., assignor.)						
Powell, Benjamin B., Petoskey, Mich. Speed-changing mechanism	276,463	Apr. 24	2046	569	23	1601
Powell, Benjamin B., Petoskey, Mich. Propelling-wheel	286,149	Oct. 2	450	122	25	84
Powell, Benjamin B., and J. I. Atkins, Petoskey, Mich. Spring-motor	275,410	Apr. 10	717	191	23	1358
Powell, Charlie R. (See Childs and Powell.)						
Powell, Dorwin G., Aquetuck, N. Y. Thill or shaft tug for harness	277,927	May 22	1725	471	23	1942
Powell, Edwin R., Burlington, Vt. Treatment of milk for the manufacture of butter and cheese	275,263	Apr. 3	483	134, 135	23	1308

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Powell, Edwin R., Burlington, Vt. Apparatus for the treatment of milk for the manufacture of butter and cheese	275,264	Apr. 3	485	135	23	1308
Powell, Eugene, Delaware, Ohio. Sulky-plow	290,107	Dec. 11	907	257	25	1054
Powell, John B., Philadelphia, Pa. Universal shaft-coupling	288,855	Nov. 20	1339	367	25	756
Powell, John B., assignor to W. A. Drown, Philadelphia, Pa. Umbrella-runner	288,485	Nov. 13	887	241	25	670
Powell, John B., assignor to W. A. Drown, Philadelphia, Pa. Umbrella catch and runner	288,486	Nov. 13	888	241	25	670
Powell, John F. (See McKenzie and Powell.)						
Powell, John R., Plymouth, Pa. Seal for miners' squibs	288,484	Nov. 13	886	241	25	670
Powell, Joseph M., assignor of one-third to W. A. C. Murphy, Springfield, Mo. Water-wheel	276,538	Apr. 24	2140	595	23	1617
Powell, Louis F. (See Carley, Timothy L., assignor.)						
Powell, Louis F. (See Carley, Powell, and Boggs.)						
Powell, Martin L., New Castle, Ind. Door-opener	276,626	May 1	104	28	23	1645
Powell, Newman J., Pontiac, Ill. Fire-escape	287,467	Oct. 30	2133	579	25	414
Powell, Newman J., Pontiac, Ill. Fire-escape	291,001	Dec. 25	2085	575	25	1272
Powell, Robbert, Kansas City, Mo. Car-coupling	283,920	Aug. 28	1750	494	24	841
Powell, Thomas, Chester, Pa. Fan attachment for rocking-chairs	271,114	Jan. 23	1589	456	23	321
Powell, Uriah M., Dawson, Ga. Seeding-machine	273,146	Feb. 27	1980	557	23	809
Powell, Van Rensselaer. (See Smith, Allen C., assignor.)						
Power, Calvin O., West Newton, Pa. Sash-balance	282,367	July 31	2577	707	24	469
Power, Jesse T. (See Tague and Power.)						
Power, John W., Slatesville, Va. Flood and suspension fence	276,073	Apr. 17	1546	425	23	1507
Power, Nicholas H., New York, N. Y. Automatic advertising device	282,925	Aug. 7	531	150	24	595
Powers, Charles W., Jr., Bloomfield, N. J. Folding cot	273,306	Mar. 6	81	24	23	847
Powers, David J., assignor to Union Wire Mattress Company, Chicago, Ill. Folding bed	276,464	Apr. 24	2048	569	23	1601
Powers, James F. (See Duffy, Patrick, assignor.)						
Powers, Jay W., Chicago, Ill. Balloon for wrecking purposes	284,667	Sept. 11	619	174, 175	24	1015
Powers, Jay W., assignor of one-half to M. J. Moth, Winnetka, Ill. Pump	287,053	Oct. 23	1612	444	25	311
Powers, Jesse, Chicago, Ill. Ironing-machine	275,851	Apr. 17	1288	354	23	1461
Powers, William H. (See Walker, Joseph H., assignor.)						
Powers, William H. and J. H. Walker, Grand Rapids, Mich. Burial-casket	275,265	Apr. 3	487	135	23	1309
Poznanski, Joseph, assignor of one-half to H. M. Haar, New York, N. Y. Vent for casks	289,555	Dec. 4	230	64	25	927
P'Pool, Elbert S. (See P'Pool, Frank and E. S.)						
P Pool, Frank and E. S., Edwards, Miss. Implement for cutting briers	280,667	July 3	393	110	24	70
Praddex, Frank J., Albany, N. Y. Preserving eggs	281,555	July 17	1516	.....	24	279
Prado, Philip, Baltimore, Md. Photo-micrographic camera	274,515	Mar. 27	1664	462	23	1142
Pradon, Leopold, assignor to M. Lambert, Paris, France. Method of and apparatus for the manufacture of oil from resinous wood	276,981	May 1	582	153	23	1726
Pramann, Adolph. (See Smith, Adolph T., assignor.)						
Prang & Co., L. (See Lane, John, assignor.)						
Prat, Jean P., and J. P. Laroche, Bordeaux, France. Extracting nickel from ores	276,074	Apr. 17	1547	.....	23	1508
Prather, Amos W. (See Varney, Joseph M., assignor.)						
Prather, J. N. (See Matlick, Isaac N., assignor.)						
Prather, Willis M., Kansas City, Mo. Apparatus for cleaning cisterns	270,118	Jan. 2	333	98	23	67
Prator, Belton O., Montezuma, Ga. Quilting attachment for sewing-machines	288,660	Nov. 20	1099	301	25	714
Pratt, Aaron B., Cambridge, Mass. Funnel	281,727	July 24	1752	475	24	323
Pratt, Abijah, New York, N. Y. Hammock	273,388	Mar. 6	197	53	23	867
Pratt, David F., Gardner, Mass. Guide for rattan-splitting machines	286,957	Oct. 16	1483	407	25	282
Pratt, Edwin E. (See Lettelier, John G., assignor.)						
Pratt, Edwin E., Chicago, Ill., assignor to A. N. Kellogg Newspaper Company, of Illinois. Stereotype-block	284,757	Sept. 11	742	206	24	1036
Pratt, Eldridge S. (See Adams, Orsemas T. X., assignor.)						
Pratt, Frederick W., *et al.* (See Bond, Nathan O., assignor.)						
Pratt, George M., Middletown, Conn. Burglar-alarm	290,605	Dec. 18	1565	430	25	1177
Pratt, Henry C., Canandaigua, N. Y. Corn planter and marker	274,027	Mar. 13	999	274	23	1013
Pratt, Henry C., Canandaigua, N. Y. Grain-drill attachment	284,572	Sept. 4	504	141, 142	24	989
Pratt, Henry C., Canandaigua, N. Y. Cultivator	289,708	Dec. 4	429	120	25	961
Pratt, Herbert W., Streator, Ill. Combined key-ring and button-hook	281,297	July 17	1197	331	24	225
Pratt, John, Centre, Ala. Quilting-frame	274,967	Apr. 3	110	31	23	1244
Pratt, John P., Milford, Mass. Boot-tree	275,411	Apr. 10	718	192	23	1358
Pratt, Lemuel C., Kalamazoo, Mich. Clutch	290,706	Dec. 25	1695	467	25	1206
Pratt & Letchworth. (See Basinger, James M., assignor.)						
Pratt, Nathaniel W., Brooklyn, N. Y. Steam-boiler	275,787	Apr. 10	1198	329	23	1439
Pratt, Nathaniel W., Brooklyn, N. Y. Steam-boiler	275,788	Apr. 10	1200	329	23	1439
Pratt, Nathaniel W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Boiler-front	273,600	Mar. 6	464	125, 126	23	914
Pratt, Nathaniel W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Hinge for boilers, stoves, &c.	273,601	Mar. 6	466	126	23	914
Pratt, Samuel L., Hingham, Mass. Stiletto	278,733	June 5	74	22	23	2137
Pratt, Samuel L., Hingham, Mass. Button-fastener	278,734	June 5	75	23	23	2137
Pratt, Samuel L., Hingham, Mass. Button-setting instrument	278,735	June 5	76	23	23	2137
Pratt, Samuel L., Hingham, Mass., and A. M. English, Providence, R. I.; said English assignor to said Pratt. Button-setting instrument	287,389	Oct. 23	2032	552	25	387
Pratt & Whitney Company. (See Tucker, William W., assignor.)						
Pratt, William, Fort Laramie, Wyo. Ter. Broken-shell extractor	280,239	June 26	1996	561	23	2488
Pratt, William B., Rahway, N. J. Suspenders	286,958	Oct. 16	1485	407	25	282
Pratt, William H., Rondout, N. Y. Steam heating attachment for stoves	272,768	Feb. 20	1492	420	23	716
Prentice, George W., Providence, R. I. Button-fastener	271,267	Jan. 30	1776	516	23	361
Prentice, George W., Providence, R. I. Button-fastener	272,318	Feb. 13	906	253	23	610
Prentice, George W., Providence, R. I. Button-setting instrument	274,028	Mar. 13	1000	274	23	1013
Prentice, George W., Providence, R. I. Setting-instrument	275,702	Apr. 10	1086	296	23	1490
Prentice, George W., Providence, R. I. Button-fastener	278,266	May 22	2154	592	23	2016
Prentice, George W., Providence, R. I. Button-fastener	278,360	May 29	2303	630	23	2051
Prentice, George W., Providence, R. I. Button-fastening	283,813	Aug. 28	1630	459	24	819
Prentice, George W., Providence, R. I. Button-fastening	284,978	Sept. 11	1000	282	24	1083
Prentice, George W., Providence, R. I. Attaching buttons	286,732	Oct. 16	1203	324	25	233
Prentice, George W., Providence, R. I. Lacing-button	287,859	Nov. 6	81	24	25	521
Prentice, George W., Providence, R. I. Attaching buttons	289,136	Nov. 27	1681	467	25	825
Prentice, George W., Providence, R. I. Button and fastener	290,353	Dec. 18	1219	342	25	1117
Prentice, George W., assignor to Heaton Button Fastener Company, Providence, R. I. Button-fastening	274,376	Mar. 20	1456	399	23	1100
Prentiss, Charles A., Washington, D. C. Gas-chamber in soda-water apparatus	288,487	Nov. 13	889	242	25	670

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Prentiss, F. F., *et al.* (See Richards, Francis H., assignor.)						
Prentiss, Frederick H., Boston, and J. A. Tilden, Hyde Park, assignors to Automatic Fire Alarm Association, Boston, Mass. Electrical thermostat	285,676	Sept. 25	1846	527	24	1247
Prenzlauer, Herman, *et al.* (See Gardner, Marshall, assignor.)						
Prescott, Charles W., *et al.* (See Carter, Alba B., assignor.)						
Prescott, Edward F., Lancaster, Mass. Portable head-rest	278,361	May 29	2303	631	23	2051
Prescott, Edwin, Arlington, Mass. Lifting-jack	272,899	Feb. 27	1684	471	23	756
Prescott, Edwin, Arlington, Mass. Sliding-car-door hanger	275,852	Apr. 17	1289	354	23	1461
Prescott, Edwin, Arlington, Mass. Carpenter's square	280,398	July 3	71	19	24	15
Prescott, Edwin, Arlington, Mass. Door-hanger	283,279	Aug. 14	969	271	24	680
Prescott, Edwin, Springborough, Pa. End-gate for wagons	277,779	May 15	1549	421	23	1906
Prescott, Edwin, Springborough, Pa. Running-gear	277,780	May 15	1550	422	23	1906
Prescott, Morrill, Holyoke, Mass. Thread-guard for spinning-machines	285,072	Sept. 18	1129	315	24	1112
Presley, William, Washington, D. C. Propelling boats, &c	284,325	Sept. 4	906	57	24	939
Pressler, Henry. (See Shindelbower and Pressler.)						
Prest, John E., Fall River, Mass. Drawing-frame and art of drawing and doubling slivers	277,606	May 15	1349	363	23	1889
Prest, John E., Fall River, Mass. Thread-guard for ring-spinning frames	279,798	June 19	1457	408	23	2387
Preston, Charles A., Norwalk, Ohio. Grate-blower	278,736	June 5	77	23	23	2137
Preston, Charles H., Detroit, Mich. Nut-lock	279,182	June 12	718	196	23	2256
Preston, David R., Whitewater, Wis. Platform adjustment for harvesters	278,596	May 29	2581	705	23	2099
Preston, Edward F., *et al.* (See Mercer, John T., assignor.)						
Preston, Everett B. (See McGaffey, Ives W., assignor.)						
Preston, Everett B., Chicago, Ill. Hose-fastener	282,466	July 31	2703	743	24	491
Preston, Everett B., Chicago, Ill. Hose-fastener	282,467	July 31	2704	743	24	491
Preston, James, *et al.* (See Barnard, Charles S., assignor.)						
Preston, James, New York, N. Y. Boiler-hoe	280,951	July 10	763	211	24	140
Preston, James, assignor of one-half to S. A. Burns and C. A. Cook, New York, N. Y. Pump-frame	274,141	Mar. 20	1152	317	23	1047
Preston, John, Indianapolis, Ind. Binder-truck	270,841	Jan. 16	1254	361	23	260
Preston, John, Indianapolis, Ind. Horse-power	270,983	Jan. 23	1436	414	23	296
Preston, Justus M., and J. L. Bacon, Joliet, Ill. Heating-furnace	288,856	Nov. 20	1341	368	25	756
Pretty, William, Jr., Ipswich, county of Suffolk, England, assignor to L. C. Warner, New York, N. Y. Binding attachment for sewing-machines	273,602	Mar. 6	467	126	23	914
Pretty, William, Jr., Ipswich, county of Suffolk, England, assignor to L. C. Warner, New York, N. Y. Folding and binding attachment for sewing-machines	273,690	Mar. 13	840	228	23	986
Preusser, Albin, assignor to H. Gruson, Buckau, near Magdeburg, Prussia, Germany. Mounting guns	281,643	July 17	1627	445	24	297
Preusser, Richard F., Lambertville, N. J. Sad-iron	289,709	Dec. 4	432	120	25	961
Preux, Joseph. (See Wells and Preux.)						
Prew, David, Providence, R. I. Brake-shoe	277,159	May 8	893	216	23	1773
Price, Charles C., Jr., Elizabeth City, N. C. Cotton-picking machine	279,799	June 19	1456	408, 409, 410	23	2387
Price, Edward G. (See Geibel and Price.)						
Price, Edward P., assignor of one-half to D. Reed, Canton, Ohio. Nut-lock	270,119	Jan. 2	334	98	23	68
Price, George B., Philadelphia, Pa. Pressure regulator or governor	273,389	Mar. 6	197	53	23	868
Price, George C., and G. W. F. Cook, assignors of one-third to W. C. Price, San Francisco, Cal. Slate-pencil sharpener	284,396	Sept. 4	908	58	24	939
Price, George W., Baltimore, assignor to B. N. Baker, Baltimore County, Md. Steam-actuated valve	290,354	Dec. 18	1219	343	25	1117
Price, H. Clay, Montclair, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Apparatus for washing photographic plates	276,875	May 1	438	117	23	1703
Price, Henry F., Brooklyn, N. Y. Fishing-tackle case	275,703	Apr. 10	1087	297	23	1490
Price, Jacob, San Leandro, Cal. Two-wheeled vehicle	286,733	Oct. 16	1203	324	25	233
Price, John A., Scranton, Pa. Furnace-grate	276,876	May 1	439	117	23	1704
Price, John A., Scranton, Pa. Range	277,781	May 15	1551	422	23	1906
Price, John A., Scranton, Pa. Cooking stove or range	278,267	May 22	2155	592	23	2016
Price, John A., Scranton, Pa. Furnace-grate	282,565	Aug. 7	111	33	24	519
Price, John A., Scranton, Pa. Stove or range	284,230	Sept. 4	95	26	24	921
Price, John B., Wollaston, Mass. Sewing-machine	270,984	Jan. 23	1437	414	23	296
Price, Parker, Sandy Run, Pa. Railway-station indicator	288,112	Nov. 6	399	113	25	577
Price, Robert. (See Massey, John T., assignor.)						
Price, Thomas R., Knoxville, Tenn. Table	285,362	Sept. 18	1469	413	24	1171
Price, Wallace C. (See Price and Cook, assignors.)						
Price, William. (See Jenkins, Law, and Price.)						
Price, William, assignor of one-half to I. Baker, Erie, Pa. Spring-bed	280,762	July 3	522	146	24	92
Prichard, George, Prichardville, Mich. Corn-sheller	287,718	Oct. 30	2473	667	25	480
Prickett, Joshua, assignor of two-thirds to W. S. Prickett and A. H. Mellen, Marinette, Wis. Machine for reducing wood to paper-pulp	277,060	May 8	691	180	23	1750
Prickett, Walter S., *et al.* (See Prickett, Joshua, assignor.)						
Priddy, Thomas B., assignor to Barnes Manufacturing Company, New Haven, Conn. Pad-lock	280,327	June 26	2107	591	23	2507
Pridmore, Henry E. (See Baker and Pridmore.)						
Pridmore, Henry E., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Harvester	270,120	Jan. 2	335	98, 99	23	68
Pridmore, Henry E., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Harvester-reel	270,910	Jan. 23	1341	387	23	281
Pridmore, Henry E., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Clutch	272,152	Feb. 13	706	194	23	574
Prier, Anton, C. Doherty, and P. E. Everett, Kansas City, Mo. Self-closing faucet	278,597	May 29	2582	705	23	2099
Prier, Anton, C. Doherty, and P. E. Everett, Kansas City, Mo. Self-acting faucet	289,710	Dec. 4	432	121	25	961
Priest, Ebenezer. (See Newsom, John B., assignor.)						
Prieto, Demetrio, Mexico, Mexico. Machine for disintegrating fibrous plants	278,668	May 29	2673	731, 732	23	2115
Primus, Nelson A., Somerville, Mass. Thill-coupling	274,656	Mar. 27	1229	508	23	1172
Prince, Benjamin M. (See Chamberlain, William T., assignor.)						
Prince, David, assignor to J. S. and I. S. Cohen, New York, N. Y. Fur cape and waist	286,959	Oct. 16	1485	408	25	282
Prince, Frederick H. (See Eaton and Prince.)						
Prince, John, West Randolph, Vt. Hoop-shaving machine	274,029	Mar. 13	1002	274	23	1013
Prince, Louis, Washington, D. C. Brick-mold and brick	278,268	May 22	2156	592	23	2016
Pringle, George T. (See Murray, Edward L., assignor.)						
Printup, John C. (See Wimpee and Printup.)						
Printup, John C., Rome, Ga. Spark-arrester	288,488	Nov. 13	890	242	25	670

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Printz, Silas W. (See Woliston and Printz.)						
Prinz, Faustin, Dundas, Minn. Dust-collector for flour-mills	272,473	Feb. 20	1115	315	23	650
Prinz, Faustin, Milwaukee, Wis. Dust-collector for flour-mills	272,474	Feb. 20	1116	315	23	650
Prinz, Faustin, assignor of one-fourth to J. K. Gehrig, Dundas, Minn. Middlings-purifier	272,475	Feb. 20	1121	316	23	651
Prior, George W., Boeger's Store, Mo. Shaft attachment for vehicles	287,468	Oct. 30	2133	579	25	415
Prior, Gilbert S., assignor of one-half to G. G. Batchelder, Boston, Mass. Bottle-stopper	290,192	Dec. 11	1005	283	25	1072
Prior, John T., Prior's Station, Ga. Wheel-tire	273,147	Feb. 27	1961	557	23	809
Prior, John T., Prior's Station, Ga. Plow and cultivator combined	286,485	Oct. 9	877	237	25	170
Prior, Samuel, Trenton, N. J. Heel for boots or shoes	276,279	Apr. 24	1804	503	23	1560
Pritchard, Arthur J. (See Lindsey and Raleigh, assignors.)						
Pritchard, Arthur W., Allegheny, Pa. Platen-shifting attachment for type-writing machines	284,231	Sept. 4	96	26	24	921
Pritchard, Nathaniel J., Boyce, Va., assignor of three-fourths to D. E. Clark, Chambersburg, Pa., and C. L. Pagenhart, Boyce, Va. Rotary engine	286,844	Oct. 16	1342	367	25	258
Privett, John D., Oxford, Ala. Harrow	274,819	Mar. 27	2019	562	23	1206
Probst, Hermann. (See Sidersky and Probst.)						
Proctor, Charles. (See Scott and Proctor.)						
Proctor, Josiah K., assignor to J. Smith Woolen Machinery Company, Philadelphia, Pa. Friction-clutch	286,556	Oct. 9	969	261	25	186
Proctor, Josiah K., assignor to J. Smith Woolen Machinery Company, Philadelphia, Pa. Sleeve-journal for shafts	288,489	Nov. 13	891	242	25	670
Profrock, Charles, Hadley, Mich. Plow	283,659	Aug. 21	1426	399	24	771
Propach, Henry, New York, N. Y. Dress-chart	278,180	May 22	2035	559	23	1996
Prosser, Robert W., Trenton, N. J. Saw-tooth	272,319	Feb. 13	906	254	23	610
Prosser, Thomas, assignor of one-half to J. Dumaresq, Montreal, Quebec, Canada. Apparatus for operating self-flushing closets	279,183	June 12	719	196	23	2256
Prosser, William S., Auburn, Cal. Feeding straw as fuel to furnaces	279,012	June 5	485	132	23	2206
Protze, Hermann, Elberfeld, Prussia, Germany. Preserving vaccine	273,390	Mar. 6	198	.....	23	868
Prout, Albert P., Woodhaven, N. Y. Spike-extractor	271,268	Jan. 30	1777	516	23	361
Prout, Albert P., Wood Haven, N. Y. Spike-extractor	276,877	May 1	440	117 118	23	1704
Prouty, George W., Boston, Mass., assignor to Prouty Press Company, Hartford, Conn. Printing-press	290,267	Dec. 18	1111	312	25	1098
Prouty, George W., assignor of one-half to T. S. Nowell, Boston, Mass. Printing-press for printing on wood	291,002	Dec. 25	2087	575	25	1273
Prouty Press Company. (See Prouty, George W., assignor.)						
Provonchar, Emanuel M., Vallejo, Cal. Gas-purifying screen	272,582	Feb. 20	1261	352	23	675
Provoost, John M., Buffalo, N. Y. Telephone-call indicator	276,465	Apr. 24	2050	569	23	1601
Pruim, Hiram P., Grand Haven, Mich. Breastpin	288,490	Nov. 13	892	242	25	670
Pruitt, John W., Russellville, Ark. Ratchet-wrench	283,357	Aug. 14	1074	301	24	700
Pruner, Thomas H., Sioux Falls, Dak. Ter. Weather-strip	279,501	June 12	1114	307	23	2319
Prüsmann, Carl H., assignor to Schaffer & Budenberg, Buckau-Magdeburg, Germany. Tachometer	288,593	Nov. 13	1013	278	25	693
Pruss, Louis W., Minneapolis, Minn. Flour-dresser	271,360	Jan. 30	1904	551	23	383
Pruss, Louis W., Minneapolis, Minn. Flour-dressing machine	271,361	Jan. 30	1908	551 552	23	384
Pruss, Louis W., Minneapolis, Minn. Centrifugal reel	283,614	Aug. 28	1631	459 460	24	819
Prutzman, Joseph. (See Souders and Prutzman.)						
Pruyn, Robert L., Baton Rouge, La. Fire-escape	274,657	Mar. 27	1830	508	23	1173
Pryor, Hart E., Ravenna, Ohio. Grain-cutting machine	279,594	June 19	1228	341	23	2347
Pryor, John D. (See Bull, George, assignor.)						
Pryor, John D. (See Rigby, Nicholas L., assignor.)						
Pryor, Joseph F., Houghton, Mich. Car-coupling	279,800	June 19	1463	410	23	2389
Puffer, Alvin D., Medford, Mass. Mixer or agitator for soda-water apparatus	269,959	Jan. 2	161	47	23	34
Puffer, Alvin D., Medford, Mass. Fountain	278,269	May 22	2157	592 593	23	2016
Puffer, Alvin D., Medford, Mass. Acid-carboy support	280,860	July 10	646	182	24	120
Puffer, Alvin D., Jr., and L. W., Medford, Mass. Aerated-water apparatus	275,076	Apr. 3	255	71	23	1270
Puffer, Luther W. (See Puffer, Alvin D., Jr., and L. W.)						
Puffer, S. B., *et al.* (See Coram, John C., assignor.)						
Pugh, John W., assignor of one-fourth to A. Pew, Goshen, Ind. Combined saw set and jointer	274,030	Mar. 13	1003	274 275	23	1014
Pugh, William G., assignor of one-half to L. R. Smoot, Baltimore, Md. Gas-burner check	279,595	June 19	1229	341	23	2347
Pugsley, Eugene F. (See Young and Pugsley.)						
Pullen, Alexander. (See Burr, Daniel, assignor.)						
Pullen, Joseph, assignor of two-thirds to G. Jenifer, Chicago, and H. H. Evans, Aurora, Ill. Counter-seat	271,511	Jan. 30	2099	603	23	418
Pullman, Albert B. (See Cloes, Benjamin J., assignor.)						
Pullman, Albert B., *et al.* (See Jackson, Andrew, assignor.)						
Pullman Door Check Company. (See Fieder, F. William, assignor.)						
Pullman, Herbert S., Rockville, assignor to Sargent & Co., New Haven, Conn. Snap-hook	275,266	Apr. 3	488	136	23	1309
Pulson, Swen, Worcester, and M. L. Snow, Sterling, Mass. Composition for emery and corundum wheels and other tools	275,704	Apr. 10	1088	.....	23	1420
Pulson, Swen, and M. L. Snow, Worcester County, Mass. Apparatus for packing emery-wheels and similar articles for burning	287,469	Oct. 30	2134	580	25	415
Pulver, Henry. (See Candrian, Herman A., assignor.)						
Pulver, William J., Paw Paw, Ill. Harvester-reel	270,336	Jan. 9	606	178 179	23	128
Pumphrey, Henry F., Fairfield, Iowa. Coupling for wires of electric conductors	270,478	Jan. 9	790	231	23	164
Purcell, William H., Elizabeth City, N. C. Chest-protector	288,857	Nov. 20	1342	368	25	756
Purdey, James. (See Beesley, Frederick, assignor.) (Reissue.)						
Purdie, Charles F., Detroit, Mich. Capsule-machine	276,280	Apr. 24	1804	503	23	1560
Purdie, Charles F., Detroit, Mich. Capsule-machine	276,281	Apr. 24	1806	503	23	1560
Purdie, Charles F., Detroit, Mich. Capsule-machine	276,282	Apr. 24	1807	503	23	1560
Purdie, Charles F., assignor, by mesne assignments, to F. A. Hubel, Detroit, Mich. Capsule-machine	289,780	Dec. 4	504	140	25	974
Purdy, Charles G. W., Brooklyn, N. Y. Machine for felting hat-bodies	281,134	July 10	980	274	24	180
Purdy, Clement E., Wooster, Ohio. Skate	279,105	June 5	618	168	23	2228
Purdy, George, Allegheny, Pa. Shaft-tug	277,782	May 15	1552	422	23	1906
Purdy, James H., and C. T. Welch, Bellona, N. Y. Seeding-machine	288,661	Nov. 20	1100	302	25	714
Purdy, John N., St. John, New Brunswick, Canada. Anchor catter and fisher	284,979	Sept. 11	1001	282	24	1083
Purdy, John S., Brooklyn, N. Y. Fountain-pen	279,104	June 5	616	168	23	2228
Purdy, Louise J., St. Louis, Mo. Pattern-tracer	284,573	Sept. 4	596	142	24	989

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Purefoy, Addison F., Wake Forest, N. C. Spring bed-bottom	278,362	May 29	2305	631	23	2051
Purefoy, Addison F., Wake Forest, N. C. Spring bed-bottom	279,013	June 5	486	133	23	2206
Purnell, James C., *et al.* (See Gibson, James E., assignor.)						
Pursell, John, Sr., New Haven, Conn. Reclining-chair	271,512	Jan. 30	2100	604	23	419
Pursley, James S., Atlanta, Ga. Corn-sheller	281,921	July 24	1998	547	24	367
Pursley, James S., Atlanta, Ga. Tire-tightener	288,954	Nov. 20	1459	403	25	778
Pursley, John J., Wetmore, Kans. Car-coupling	271,655	Feb. 6	83	23	23	455
Purslow, John W., Durango, Colo. Car-coupling link	273,148	Feb. 27	1982	557	23	809
Purslow, John W., Durango, Colo. Machine for twisting hay rope	275,267	Apr. 3	489	136	23	1309
Purves, Thomas B., and T. C. Craven, Greenbush, N. Y. Draw-bar	271,269	Jan. 30	1778	516, 517	23	361
Purves, Thomas C., Chicago, Ill. Apparatus for cleaning steam-boilers	276,627	May 1	104	28	23	1645
Purvis, William B., assignor of one-half to L. E. Pfeiffer, Philadelphia, Pa. Hand-stamp	273,149	Feb. 27	1982	557, 558	23	809
Pusch, Johann, Blue Island, assignor of one-half to L. J. Kadish, Chicago, Ill. Hermetic apparatus for racking beer	274,516	Mar. 27	1665	463	23	1142
Pusey, Joshua, Philadelphia, Pa. Match-igniter	271,737	Feb. 6	180	49	23	471
Pusey, Joshua, Philadelphia, Pa. Hose-carriage	271,738	Feb. 6	181	49	23	472
Pusey, Joshua, Philadelphia, Pa. Crayon-holder	275,517	Apr. 10	855	232	23	1380
Pushee, Charles B., Mason City, Iowa. Foot-scraper	286,329	Oct. 9	701	187	25	137
Putman, George F., Fonda, N. Y. Vehicle-spring	281,728	July 24	1753	476	24	393
Putman, John, and F. E. Berry, Rushville, Ill. Check-rower	285,764	Sept. 25	1965	557	24	1266
Putnam, Bayard T., Newport, R. I. Combined protractor and chart-holder	280,328	June 26	2108	591	23	2507
Putnam, George L., Mount Vernon, N. Y. Railway metallic cross-tie and trough	285,842	Oct. 2	74	22	25	15
Putnam, Henry W., Bennington, Vt. Bottling-machine	272,153	Feb. 13	707	194	23	574
Putnam, Jacob D., Lowell, Mass. Furnace for glass-factories, &c	287,470	Oct. 30	2135	580	25	415
Putnam, John G. W., Saratoga Springs, N. Y. Coal-sieve	287,161	Oct. 23	1746	478	25	337
Putnam, John P., Boston, Mass. Water-closet and similar receptacles	285,924	Oct. 2	186	54	25	36
Putnam, John P., Boston, Mass. Water-closet and similar receptacles	285,925	Oct. 2	189	54	25	37
Putnam, John P., Boston, Mass. Water-closet	285,926	Oct. 2	191	54	25	37
Putnam, John P., Boston, Mass. Water-closet	285,927	Oct. 2	192	54	25	37
Putnam, John P., Boston, Mass. Water-closet	285,928	Oct. 2	193	55	25	37
Putnam, Joseph W., New Orleans, La. Trunk-strap	276,466	Apr. 24	2051	570	23	1601
Putnam, Simeon L. (See Putnam, Wendell P. and S. L.)						
Putnam, Theodore A. B., New York, N. Y. Carrier for underground wires, &c	282,010	July 24	2100	576	24	384
Putnam, Theodore A. B., New York, N. Y. Insulated rail-joint	284,668	Sept. 11	620	175, 176	24	1015
Putnam, Theodore A. B., New York, N. Y. Railway-crossing gate or signal	284,669	Sept. 11	622	176	24	1015
Putnam, Theodore A. B., New York, N. Y. Electrically operating railway gates or signals	284,670	Sept. 11	626	177	24	1016
Putnam, Theodore A. B., New York, N. Y. Automatic shunt-relay or circuit-closer	289,137	Nov. 27	1682	467	25	825
Putnam, Wendell P., Watertown, Mass. Curtain-fixture	279,801	June 19	1464	410	23	2388
Putnam, Wendell P., Watertown, Mass. Curtain-fixture	279,802	June 19	1465	410	23	2388
Putnam, Wendell P., Watertown, and S. L. Putnam, Boston, Mass. Curtain-fixture	279,803	June 19	1465	411	23	2388
Puvrez, Oscar, Leuze, Belgium. Filter for the manufacture of sugar, &c	286,960	Oct. 16	1486	408	25	282
Pyle, Alexander, *et al.* (See Darling, James D., assignor.)						
Pyle, Cyrus, *et al.* (See Fuller, Willard M., assignor.)						
Pyle, George C., assignor to himself and A. M. Sullivan, Dayton, Ohio. Feed-water regulator	279,014	June 5	491	133	23	2207
Pyles, Newton O. (See Davis and Pyles.)						
Pyott, Louis T., Philadelphia, Pa. Portable hoisting-machine	271,115	Jan. 23	1589	457	23	321
Pyott, Louis T., Philadelphia, Pa. Driving device for metal-planers	273,150	Feb. 27	1984	558	23	809
Pyott, Louis T., Philadelphia, Pa. Elevated railway, bridging, &c	276,878	May 1	441	118	23	1704
Quackenbush, Henry M. (See Haviland and Gunn, assignors.)						
Quatremaine, George W., Stratford-on-Avon, county of Warwick, assignor to A. L. Bricknell, Buxton, England. Driving-gear for velocipedes	287,960	Nov. 6	217	61, 62	25	545
Queen City Sewing Machine Company. (See Darling and Kitzmiller, assignors.)						
Query, Daniel, Atkinsonville, Ind. Suspension railway-car	277,783	May 15	1553	423	23	1700
Quetil, Charles J., Albuquerque, N. Mex. Ter. Elevated tramway, &c	278,819	June 5	189	55	23	2155
Quick, Joseph and Joseph, Jr., Westminster, England. Tramway-locomotive	276,075	Apr. 17	1548	426, 427	23	1508
Quigley, George, *et al.* (See Edwards, William F., assignor.)						
Quigley, Robert J., Toronto, Ontario, Canada. Joint for watch-cases	288,184	Nov. 6	482	134	25	591
Quimby, John H., Concord, N. H. Railway-switch	275,518	Apr. 10	857	232	23	1380
Quinet, Ildephonse, and A. Denis, Dennin, France. Apparatus employed in sinking pits or shafts	284,895	Sept. 11	897	253	24	1064
Quinette, Jermain P., St. Louis, Mo. Hame	283,815	Aug. 28	1634	460	24	820
Quinlan, John, Denver, Colo. Liniment	282,769	Aug. 7	357	.....	24	562
Quinlan, Peter B. (See Milne and Ganta, assignors.) (Reissue.)						
Quinlan, Washington. (See Brown, Morgan W., assignor.)						
Quinn, Daniel O. (See Parkhill, Joseph H., assignor.)						
Quinn, John F. (See Mack, Albert G., assignor.)						
Quinn, John J., Burlington, N. J. Brush for cleaning milk-cans	287,719	Oct. 30	2474	667	25	480
Quinn, Mary V., Faribault, Minn. Button-pin	286,222	Oct. 9	539	148	25	109
Quinn, Michael, Fishkill Landing, N. Y. Lathe for turning ovals	270,479	Jan. 9	790	231	23	164
Quinn, Patrick. (See Buckalew and Quinn.)						
Quinque, August, assignor to himself and J. R. Z. Keelor, Harleysville, Pa. Cribbing-plate	287,577	Oct 30	2284	618	25	444
Quinsler, George J., Boston, Mass. Speaking-tube apparatus	277,508	May 15	1230	331	23	1650
Quint, Henry F. (See Maxwell and Quint.)						
Quirin, Emil J. F., Tioga Centre, N. Y. Pulp-washing machine	284,232	Sept. 4	97	27	24	921
Raab, Joseph, Dayton, Ohio. Turbine water-wheel	279,981	June 26	1688	474	23	2433
Raab, Peter, Warren, Ind. Road grader and scraper	288,261	Nov. 13	587	162	25	618
Raaths, Heinrich, Appleton, Wis. Plow	287,720	Oct. 30	2475	667	25	480
Rabl, Franz, assignor to Atlantic and Pacific Electric Manufacturing Company, Camden, N. J. Electric-arc lamp	280,763	July 3	524	147	24	93
Race, James H., Brooklyn, N. Y. Combined collar-button and scarf-ring	275,412	Apr. 10	720	192	23	1358
Race, James H., Brooklyn, N. Y. Running-gear for suspension-engines	289,306	Nov. 27	1882	524	25	863
Radcliff, Edwin S., St. Paul, Minn. Suction-ventilator	272,583	Feb. 20	1262	352	23	675
Radcliffe, Charles, Newark, N. J. Button	289,138	Nov. 27	1685	468	25	825
Raddin, John, Lynn, Mass. Safety attachment to car-trucks	273,307	Mar. 6	82	24, 25	23	848
Raddin, John, Lynn, Mass Safety attachment for car-trucks	273,308	Mar. 6	83	25	23	848
Rader & Co. G. W. (See Esterbrook, William P., assignor.)						
Rader, David H., Gilroy, and J. Malsbary, Hollister, Cal. Grain thrasher and cleaner	273,391	Mar. 6	199	53, 54	23	868
Radford, Thomas, assignor of four-fifths to J. B. and W. Stevenson, M. T. Scott, and W. Radford, Bloomington, Ill. Rock-drill	272,977	Feb. 27	1771	495	23	771

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Radford, William, *et al.* (See Radford, Thomas, assignor.)						
Radovich, Lazarus, San Francisco, Cal. Rock-breaker	286,223	Oct. 9	539	148	25	109
Rae, John, New York, N. Y. Magnetic ore-separator	273,309	Mar. 6	84	25	23	848
Rae, John C. (See Hosford, Seymour A., assignor.)						
Rae, John C., Elmira, N. Y. Seal-lock	272,769	Feb. 20	1493	420	23	716
Raeuble, William, Boston, Mass. Button-hole sewing-machine	277,928	May 22	1726	471	23	1942
Rafer, Edmond. (See Rafer, Eugène and E.)						
Rafer, Ernest E. and E. G., assignors to Alamagny & Oriol, St. Chamond, France. Machine for making electric cables	280,764	July 3	525	147	24	93
Rafer, Eugène and E., assignors to Société Industrielle des Tresses & Lacets de Saint Chamond, Saint-Chamond, France. Braiding-machine	278,669	May 29	2675	732	23	2116
Rafer, Eugène G. (See Rafer, Ernest E. and E. G.)						
Raffensparger, Christian M., assignor of one-half to G. M. Bair, Hanover, Pa. Automatic railway-signal	287,961	Nov. 6	219	62	25	545
Raffle, Sarah R., Baltimore, Md. Corset-protector	278,043	May 22	1867	510	23	1967
Raggio, Charles A., Chicago, Ill. Faucet and racking valve	283,021	Aug. 14	657	185	24	694
Rahn, Conrad, Shannon, Ill. Pessary	273,603	Mar. 6	468	126	23	914
Rahn, John W. (See Moore and Rahn.)						
Rahsskopff, Carl. (See Schmidt and Rahsskopff.)						
Railroad Safety Lock and Signal Company. (See Phelps, William P., assignor.)						
Railroad Safety Lock and Signal Company. (See Shaffer, William C., assignor.)						
Railroad Safety Lock and Signal Company. (See Shaffer and White, assignors.)						
Rainwater, Almarine P. (See Rainwater, Charles A., J. H., and A. P.)						
Rainwater, Charles A., J. H., and A. P., Veazey, Ga. Cultivator	285,073	Sept. 18	1129	316	24	1112
Rainwater, Joseph H. (See Rainwater, Charles A., J. H., and A. P.)						
Rairigh, William K., St. Petersburg, Pa. Safety-hook	271,116	Jan. 23	1590	457	23	321
Rairigh, William K., St. Petersburg, Pa. Safety-hook	273,310	Mar. 6	86	26	23	848
Raisbeck, George A. (See Hake and Raisbeck.)						
Raker, John. (See Barber and Raker.)						
Raleigh, Harry W. (See Lindsey and Raleigh.)						
Raleigh, John A., Columbia, Ala. Coffee-filter	288,491	Nov. 13	892	243	25	671
Ralph, Matthias, Sr., Ursa, Ill. Car-coupling	284,896	Sept. 11	898	253	24	1064
Ralston, David, Troy, N. Y. Machine for sanding brick-molds	271,944	Feb. 6	491	132	23	525
Ralston, David, Troy, N. Y. Brick-tongs	272,320	Feb. 13	907	254	23	610
Ralston Gas Engine and Manufacturing Company. (See Serrell and Ward, assignors.)						
Ralston, John. (See Hay and Ralston.)						
Ralu, Adrien, fils, Paris, France. Treating and ameliorating alcohols and alcoholic liquors	273,604	Mar. 6	469	.....	23	914
Ramacciotti, Francis, New York, N. Y. Spinning-lathe for winding piano-strings	280,512	July 3	215	56, 57	24	39
Ramage, Alexander, Russell Gulch, Colo. Lamp	280,240	June 26	1997	562	23	2488
Ramage, Charles E., Allegheny, Pa. Slate-cleaner	277,341	May 8	1031	277	23	1810
Ramsay, Alexander. (See Macfarlane, Thomas, assignor.)						
Ramsay, Charles W., Brooklyn, assignor to C. B. Hotchkiss, New York, N. Y. Apparatus for treating fermented, fermentable, and distilled liquors	271,656	Feb. 6	84	23	23	455
Ramsey, George W., assignor of one-half to D. A. Morton, Madisonville, Ky. Meat-tenderer	282,566	Aug. 7	112	34	24	519
Ramsey, Joseph T., Helena, Ark. Neck-yoke	288,364	Nov. 13	730	198	25	642
Ramsey, Lewis F. (See Griffith and Ramsey.)						
Ramseyer, George A., Dobbs Ferry, N. Y. Piano-stool	282,926	Aug. 7	532	150	24	595
Rand, Addison C. (See Divine and Rand.)						
Rand, Walter M., Olney, Ill. Feed-hopper	272,321	Feb. 13	908	254	23	610
Randall, Amelia A. (See Randall, Silas G., assignor.)						
Randall, Bellville L., Boston, Mass. Saw-set	279,015	June 5	491	133	23	2207
Randall, Calvin E., Natick, Mass. Eyelet-hole attachment for sewing-machines	270,696	Jan. 16	1081	310	23	227
Randall, Charles A., New York, N. Y. Telephone-exchange system	270,556	Jan. 9	897	259	23	185
Randall, Charles A., New York, N. Y. Telephone system and apparatus	271,513	Jan. 30	2102	604	23	419
Randall, Francis W., Tekonsha, Mich. Reversing-gear for engines	270,842	Jan. 16	1255	361	23	260
Randall, Francis W., Tekonsha, assignor to W. E. Hill and G. W. Miller, Kalamazoo, Mich. Railway-velocipede	270,480	Jan. 9	791	231	23	164
Randall, Francis W., Tekonsha, assignor to G. W. Miller and W. E. Hill, Kalamazoo, Mich. Wheel	270,481	Jan. 9	792	231	23	164
Randall, Frank C., Joliet, Ill. Check-rower for seed-planters	272,476	Feb. 20	1125	316	23	651
Randall, Frank J., *et al.* (See Chandler and Williams, assignors.)						
Randall, George F., *et al.* (See Ellis, Aldridge C., assignor.)						
Randall, Gordon P., Chicago, Ill. Heating-furnace	273,151	Feb. 27	1984	558	23	810
Randall, Horace A., *et al.* (See Ellis, Aldridge C., assignor.)						
Randall, Isaac H., Boston, Mass. Car-truck	272,154	Feb. 13	709	194	23	574
Randall, James, Norwich, Conn. Lock for fire-arms	289,856	Dec. 11	607	169	25	1000
Randall, K. E., *et al.* (See Waugh, Johnson S., assignor.)						
Randall, Lucius A., Birmingham, Mich. Latch	273,152	Feb. 27	1985	559	23	810
Randall, Silas G., Greene, N. Y. Automatic gaveling-rake for harvesters	290,801	Dec. 25	1824	503, 504	25	1229
Randall, Silas G., assignor to A. A. Randall, Greene, N. Y. Seeding-machine	284,060	Aug. 28	1942	543	24	874
Randall, William H., San Francisco, Cal. Rock-drill	281,922	July 24	1999	548	24	367
Randall, William W., Marshfield, assignor of one-half to H. C. Barnes, Boston, Mass. Box-fastener	275,853	Apr. 17	1290	354	23	1462
Randel, Charles D., assignor of one-half to W. Brockner, New York, N. Y. Wire-bending machine for bale-ties	271,514	Jan. 30	2104	605	23	419
Randel, Charles D., and W. Brockner, New York, N. Y. Apparatus for attaching barbs to fence-wires	286,636	Oct. 16	1079	291	25	212
Randel, William, St. Albans, Vt., and R. Sims, Glens Falls, assignors to E. A. King, Troy, N. Y. Button-hole attachment for sewing-machines	276,709	May 1	226	57, 58	23	1663
Randolph, George W. (See Carruth, William H., assignor.)						
Randolph, Mahlon, New York, assignor of one-half to M. A. Case, Brooklyn, N. Y. Combined pneumatic grain elevator, conveyer, and cleaner	276,879	May 1	441	119	23	1704
Randolph, Theodore F., Cincinnati, Ohio. Surveyor's compass	282,117	July 31	2259	620	24	415
Range, Otis J., assignor to C. Parker Company, Meriden, Conn. Coffee-mill	272,584	Feb. 20	1263	352	23	676
Rank, Anson M. (See Piper, Jacob M., assignor.)						
Rankin, John R., Indianapolis, Ind. Printer's ink-fountain	273,605	Mar. 6	470	127	23	914
Rankin, Matthew. (See Bolton and Rankin.)						
Rankin, Matthew. (See Bolton, Strieby, and Rankin.)						
Rankin, Robert P., Clayton, Ind. Automatic elevator-guard	288,113	Nov. 6	401	113	25	577
Rankin, Thomas L., New York, N. Y. Ice-machine	270,121	Jan. 2	340	100	23	69
Rankin, Thomas L., New York, N. Y. Ice-machine	270,193	Jan. 2	429	124, 125	23	88

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Ranney, Henry C. (See Hatfield, Lyman, assignor.)						
Ranney, William C., Elbridge, N. Y. Caster attachment to rockers	287,721	Oct. 30	2476	667	25	480
Ransom, Frank H., Buffalo, N. Y. Trunk or box	270,697	Jan. 16	1083	311	23	227
Ransom, Jonathan H., Jr., Boston, Mass. Nut-lock	275,705	Apr. 10	1088	297	23	1420
Ransom, Newman A., assignor to Chicago Gas Apparatus Manufacturing Company, Chicago, Ill. Apparatus for carbureting gas	275,968	Apr. 3	490	136	23	1309
Rantz, Andrew M., Cambridgeport, and C. L. Engelhardt, Boston, Mass. Sash-fastener	275,706	Apr. 10	1089	297	23	1420
Raoul, Gaston T. (See King, Hezekiah O., assignor.)						
Rapp, Almire H., Paris, France, assignor of one-half to A. Gerry, trustee, New York, N. Y. Stone-channeling machine	281,135	July 10	961	274	24	180
Rapp, Christian F. (See Dudley and Rapp.)						
Rapp, Christian F., Cincinnati, Ohio. School-slate	289,711	Dec. 4	433	121	25	962
Rasck, George P., Des Moines, Iowa. Station-indicator	271,965	Feb. 6	492	133	23	525
Rasgorshek, Gabriel and J., Plattsmouth, Nebr. Stove-pipe cleaner	284,897	Sept. 11	899	254	24	1065
Rasgorshek, John. (See Rasgorshek, Gabriel and J.)						
Rasmus, Theophil, New York, N. Y. Fur clipping and unhairing machine	275,077	Apr. 3	258	71, 72	23	1270
Rasmusen, Charles W., Chicago, Ill. Cable-railway car	280,139	Nov. 27	1686	468	25	825
Rasmusen, Charles W., Chicago, Ill. Cable-railway apparatus	290,707	Dec. 25	1695	467, 468	25	1206
Rasmusen, Charles W., Chicago, Ill. Cable-railway apparatus	290,708	Dec. 25	1699	468, 469, 470	25	1207
Rasmuson, Thomas A., Forest City, Iowa. Corn-planter	286,486	Oct. 9	878	238	25	170
Rasmussen, Anders, Oshkosh, Wis. Thill for vehicles	279,804	June 19	1466	411	23	2388
Rasmussen, Anders, assignor of one-half to J. J. Parsons, Oshkosh, Wis. Two-wheeled vehicle	272,322	Feb. 13	909	254	23	610
Rasmussen, Rasmus F., New Albuquerque, N. Mex. Ter. Horse-power	280,080	June 26	1813	510	23	2455
Rasner, Henry C., and A. Walton, San Francisco, Cal. Gear-molding device	284,327	Sept. 4	208	58	24	939
Ratcliff, Frederick, New Bedford, Mass. Napkin-ring and menu-holder	279,805	June 19	1467	411	23	2388
Ratcliff, Frederick, New Bedford, Mass. Combined pepper and salt box and napkin-ring	279,806	June 19	1467	411	23	2388
Ratcliff, Frederick, New Bedford, Mass. Pincushion	279,807	June 19	1468	412	23	2389
Ratcliffe, Jabez E. (See Brady and Ratcliffe.)						
Rate, Edward F., Chicago, Ill. Glove and other fastener	275,854	Apr. 17	1291	355	23	1462
Rath, Joseph, Columbus, Ohio. Can-opener	280,241	June 26	1998	562	23	2488
Rath, William, Sutten, Nebr. Combined thrashing-machine and separator	276,467	Apr. 24	2051	570	23	1601
Rathbone, Ransom. (See Morrell, James A., assignor.)						
Rathbone, Sard & Co. (See Oliver, Robert S., assignor.)						
Rathbun, Charles B., Bridgeport, Conn., assignor to G. Upton, Peabody, Mass. Sewing-machine table	271,362	Jan. 30	1909	552	23	384
Rathbun, Charles S., and S. F. Selby, Cleveland, Ohio. Carriage-bow socket	283,022	Aug. 14	658	185	24	624
Rathburn, C. M., *et al.* (See Lash, John S., assignor.)						
Rathmann, Johann H., Buffalo, N. Y. Combined needle and cutter for sewing boned hams	273,153	Feb. 27	1987	559	23	810
Rau, Eugen, Hartford, Conn., assignor of one-half to E. Halliday, Brooklyn, N. Y. Apparatus for dyeing with hydrocarbons	290,110	Dec. 11	910	258	25	1055
Raub, Adams D. (See Mitchell, John E., assignor.)						
Rauchenbichler, Alois. (See Küchenmeister, Gröschel, and Rauchenbichler.)						
Raughtigan, Emma J. (See Raughtigan, Michael, assignor.)						
Raughtigan, Michael, assignor of one-half to E. J. Raughtigan, Norwich, Conn. Dish-draining rack	287,471	Oct. 30	2137	580	25	415
Ravenel, Harriott H., executrix. (See Ravenel, St. Julien.)						
Ravenel, St. Julien, deceased, H. H. Ravenel, executrix, and assignor to Stoney Landing Company, Charleston, S. C. Manufacture of artificial stone	283,358	Aug. 14	1074	.....	24	700
Rawalt, Charles T. (See Judd and Rawalt.)						
Rawlings, Emma J., St. Louis, Mo. Pillow-sham support	269,880	Jan. 2	66	20	23	15
Rawlins, Joseph W. V., Houghton, Mich. Steam rock-drill	280,668	July 3	394	110	24	70
Rawson, Samuel, Peoria, Ill. Hen-house	289,307	Nov. 27	1883	524	25	863
Rawson, Thomas. (See Fyfe and Rawson.)						
Ray, Ashbel. (See Ray, James S. and A.)						
Ray, Daisley & Co. (See Daisley, Howard, assignor.)						
Ray, Edward C. (See Eppler and Ray.)						
Ray, Frederick A., Maryland, N. Y. Car-coupling	275,943	Apr. 17	1394	384	23	1481
Ray, J. A., *et al.* (See Roberts, Benjamin F., assignor.)						
Ray, James H., St. Louis, Mo. Tricycle	288,114	Nov. 6	401	113	25	577
Ray, James S. and A., East Haddam, Conn. Fork	273,154	Feb. 27	1988	559	23	810
Ray, Jane A., Brooklyn, N. Y. Corset stay-plate	281,792	July 24	1841	503	24	339
Ray, Joel, Philadelphia, Pa. Aerial vessel	270,122	Jan. 2	341	100	23	70
Ray, Joseph G. (See Pond, Henry E., assignor.)						
Ray, Richard, Griffin, Ga. Shoulder-sunshade	288,115	Nov. 6	403	114	25	577
Ray, William S. (See Lea, Henry E., assignor.)						
Ray, William S., San Francisco, Cal. Wire-rope railway	278,044	May 22	1868	510, 511	23	1967
Raymond, F. F., 2d, trustee, *et al.* (See Barbour, E. Russell, assignor.)						
Raymond, F. F., 2d, trustee. (See Henderson, Henry A., assignor.)						
Raymond, Francois, Wood Haven, assignor to Lalance & Grosjean Manufacturing Company, New York, N. Y. Dough-mixer	283,511	Aug. 21	1262	353	24	739
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	271,117	Jan. 23	1591	458	23	321
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	271,118	Jan. 23	1592	458	23	322
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	280,399	July 3	72	20	24	15
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	287,472	Oct. 30	2137	580, 581, 582	25	416
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	289,857	Dec. 11	609	170	25	1000
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	290,109	Dec. 11	908	257, 258	25	1054
Raymond, Freeborn F., 2d, Newton, and J. E. Wheeler, Lynn, Mass. Heel-nailing machine	280,861	July 10	648	183	24	120
Raymond, Gertrude E. (See Renton, George W., assignor.)						
Raymond, James P. (See Wright, Benjamin F., assignor.)						
Raymond, John W., Lowville, Pa. Grapple	270,482	Jan. 9	793	232	23	165
Raymond, Murray M., Corry, Pa. Baby-jumper and swing	279,432	June 12	1035	287	23	2307
Raymond, Reuben, San Francisco, Cal. Glove	282,667	Aug. 7	229	66, 67	24	539
Raymond, Seymour, assignor to himself and J. Campbell, Middletown, Pa. Thermometer attachment for stoves	282,770	Aug. 7	358	100	24	562

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
ɔnd, Silas H., Grand Rapids, Mich. Bow for vehicle-tops. (Reissue)	10,422	Dec. 11	1010	284	25	1073
ɔnd, Silas H., Grand Rapids, Mich. Bow for vehicle-tops	279,016	June 5	493	134	23	2207
ɔnd, Squire, East Venice, N. Y. Floor-clamp	279,808	June 19	1469	412	23	2389
ɔnd, Squire, East Venice, N. Y. Potato digger and picker	286,961	Oct. 16	1487	408 409	25	282
ɔnd, Squire, East Venice, N. Y. Weight-power	286,962	Oct. 16	1489	409	25	283
ɪr, Thomas S., assignor of one-half to C. T. and C. Ward, Springfield, Ohio. Press nolding fire-kindling substances	281,923	July 24	2000	548	24	367
ɪr, John B. (See Smith and Raynor.)						
ɪr, William E. (See Page and Raynor.)						
, Robert, assignor to G. H. Plant, Jr., Washington, D. C. Metal-pipe-bending ma-e	280,862	July 10	651	184	24	121
Benjamin F., *et al.* (See Freeman, Walter F., assignor.)						
Calvin D., Ayer, and E. Dawson, Lowell, Mass. Cash and bundle carrier	280,863	July 10	652	184	24	121
James J., Cambridge, Mass. Whip-rack	290,968	Dec. 18	1113	313	25	1099
John W., West Salem, Ohio. Fence	285,677	Sept. 25	1847	528	24	1247
Robert M. (See Blodgett, Read, and Tirrell.)						
ng, Henry P., Eureka Springs, Ark. Stump-puller	275,855	Apr. 17	1292	355	23	1462
ng Iron Works. (See Wolfe, Edward W., assignor.)						
ɔ, Arthur J. E., Pawtucket, R. I. Car-seat	285,678	Sept. 25	1848	528	24	1248
ɪn, Harry C., Jr., West Chester, Pa. Car-step	273,155	Feb. 27	1988	560	23	810
. Frederick, Danville, Pa. Lamp-burner	273,392	Mar. 6	200	54	23	868
Joseph H., Canton, Ohio. Railway-chair	274,377	Mar. 20	1456	399	23	1100
ɜ, John V., and A. C. Majors, Burlington, Kans. Car-coupling	287,860	Nov. 6	81	24, 25	25	522
y, William B. (See Low, Joel B., assignor.)						
y, William B., Baltimore, Md. Traction-railway	281,924	July 24	2001	548	24	367
on, John M., Shippensville, Pa. Side-leak or sand-wall washer for oil-wells	277,607	May 15	1351	364	23	1869
on, Patrick W., San José, Cal. Dry ore separator	276,710	May 1	228	58	23	1664
r, Warren T., Madison, Wis. Balanced slide-valve	273,891	Mar. 13	841	228	23	986
r, Warren T., Madison, Wis. Balanced slide-valve	273,892	Mar. 13	842	229	23	986
r, Enos M. (See Keffer, Peter, assignor.)						
ɔck, Christopher F., Meriden, Conn. Composition for coating metallic surfaces	280,864	July 10	654	.....	24	122
ɔck, Christian, Bridgeport, assignor to himself and C. Dietterlin, New Haven, Conn. r-knob	273,893	Mar. 13	843	229	23	986
ɔck, Christian, assignor to himself, G. Eckart, Bridgeport, and C. Dietterlin, New en, Conn. Drawer-pull	275,078	Apr. 3	263	72	23	1271
, Carl, Brooklyn, N. Y. Sheet-metal-pipe joint	277,427	May 8	1127	303	23	1826
ndorfer, Babelle, executrix, *et al.* (See Reckendorfer, Joseph.)						
ndorfer, Joseph. (See Boman, Claes W., assignor.)						
ndorfer, Joseph. (See Boman, Claes W., assignor.) (Reissue.)						
ndorfer, Joseph. (See Collard, Richard M., assignor.)						
ndorfer, Joseph. (See Hoffman, Joseph, assignor.)						
ndorfer, Joseph. (See Uhlig, Richard W., assignor.)						
ndorfer, Joseph, deceased; B. Reckendorfer, executrix, G. A. Goldsmith and W. uss, executors, New York, N. Y. Pen-holder	286,066	Oct. 2	353	99	25	65
r, John P., Indianapolis, Ind., assignor to Indianapolis Cabinet Company of Indiana. ible jointed shutter	277,608	May 15	1352	364	23	1869
rs dres, William. (See Richter, Paul, assignor.)						
d, Alvin. (See Lee, Thomas, assignor.)						
d, George J. (See Stark, Michael J., assignor.)						
ds, Mortimer, Forest, Del. Hand corn-planter	287,162	Oct. 23	1747	478	25	337
ɪn, Henry W., San Francisco, Cal. Composition for lubricating axles	276,711	May 1	230	.....	23	1664
ɪn, Henry, New York, N. Y. Fire-escape	281,557	July 17	1518	417	24	279
ɔh, Henry, Chicago, Ill. Bottle-wrapper	272,323	Feb. 13	909	255	23	610
ɪe, Joseph, Jr., Rohrsburg, Pa. Saw-mill dog	290,355	Dec. 18	1222	343	25	1118
an, Andrew J., assignor to himself and C. R. Scranton, La Crosse, Kans. Car-coup-	284,898	Sept. 11	900	254	24	1065
an, Robert S., Newark, N. J. Adjustable bracket	274,223	Mar. 20	1260	348	23	1066
ond, Charles C., San José, Cal. Apparatus for filling bottles, lamps, &c	281,396	July 17	1318	364	24	245
ond, Daniel M., Philadelphia, Pa. Machine for inserting pins or rivets in umbrella-ies	282,668	Aug. 7	230	67	24	539
ond, Edmond, assignor of one-third to W. B. Duffy, Rochester, N. Y. Gun-wad	274,378	Mar. 20	1457	399	23	1101
ill, George T., *et al.* (See Martin, John C., assignor.)						
Albert, Binghamton, N. Y. Car-replacer	284,758	Sept. 11	743	206	24	1036
Arthur, Brooklyn, N. Y. Chandelier-holding attachment	271,739	Feb. 6	182	49	23	472
& Barton. (See Bacon, Orin F., assignor.)						
& Barton. (See Tolman, Elijah, assignor.)						
Charles C., Worcester, Mass. Compression-cock	283,660	Aug. 21	1427	399	24	772
Charles D., Polo, Ill. Cultivator	290,111	Dec. 11	912	258	25	1055
Charles W., North Platte, Nebr. Apparatus for feeding calves	272,379	Mar. 20	1458	400	23	1101
Dudley. (See Price, Edward P., assignor.)						
Egbert S., Versailles, Ohio. Clod-crusher	280,513	July 3	216	57	24	39
Emma T., Victoria, Tex. Nursery-chair	284,671	Sept. 11	629	178	24	1016
Horatio G. H., Milwaukee, Wis. Freight-car-door lock	276,283	Apr. 24	1808	504	23	1560
Hudson H., assignor to J. Taylor, New York, N. Y. Hammock-carriage	269,881	Jan. 2	67	20, 21	23	16
J. G., *et al.* (See Hewson, William S., assignor.)						
J. Van D. (See Stowe, Benjamin L., assignor.)						
Jacob R., *et al.* (See Gray, Josiah, assignor.)						
Jacob R., *et al.* (See Gray and Hallenback, assignors.)						
James L., Philadelphia, Pa. Packing for piston-rods	270,483	Jan. 9	794	232	23	165
John. (See Brown, Richard H., assignor.)						
John L., Canajoharie, N. Y. Combined grain-drill and corn-planter	281,558	July 17	1519	417	24	279
La Flavius, Hornellsville, N. Y. Bark-mill	282,771	Aug. 7	358	101	24	562
Robert B. F., and G. Freund, Durango, Colo.; said Reed assignor to said Freund. ty-shell for blasting	273,156	Feb. 27	1989	560	23	810
Thomas S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Electrical luctor	276,880	May 1	446	119	23	1705
Thomas S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Electrical luctor	286,963	Oct. 16	1491	410	25	283
William H., Chicago, Ill. Metallic clamp	269,882	Jan. 2	68	21	23	16
William H., Cliffdale, Ill. Evaporator	280,514	July 3	217	57	24	39
William H., San Francisco, Cal. Animal-trap	284,759	Sept. 11	744	207	24	1036
William M., Geneva, Ind. Lemonade-shaker	281,925	July 24	2002	549	24	368
William S., Leominster, Mass. Knockdown or building-block toy	276,539	Apr. 24	2141	595	23	1617

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Reed, William S., Leominster, Mass. Toy bedstead or crib	279,665	June 19	1312	365	23	2361
Reed, William S., Leominster, Mass. Toy gun	283,661	Aug. 21	1428	400	24	772
Reed, William S., Leominster, Mass. Doll-carriage	288,662	Nov. 20	1102	302	25	714
Reed, William S., Leominster, Mass. Toy vehicle	288,663	Nov. 20	1102	302	25	714
Reed, William S., Leominster, Mass. Combination toy	288,664	Nov. 20	1103	302	25	714
Reed, William S., Leominster, Mass. Toy money-box	289,140	Nov. 27	1687	468	25	886
Reeder, James A. (See Rice, R. Fredrick, assignor.)						
Reeder, William S., St. Louis, Mo. Rib for cotton-gins	290,471	Dec. 18	1387	383	25	1146
Reeder, William S., St. Louis, Mo. Cane-mill	290,472	Dec. 18	1388	383	25	1147
Rees, Charles S., and P. Mills, Pueblo, Colo. Lock for sliding doors	274,658	Mar. 27	1831	508	23	1173
Rees, Joseph W., and J. J. Smith, Pennsborough, W. Va. Coffee-roaster	285,929	Oct. 2	195	55	25	38
Rees, Luther, *et al.* (See Davies, Robert H., assignor.)						
Rees, Wesley, Memphis, Mo. Fire-escape	276,468	Apr. 24	2053	570	23	1602
Reese, Abram L., Chase, Kans. Wheat-drill	274,380	Mar. 20	1458	400	23	1101
Reese, Abram, Pittsburg, assignor of one-fourth to F. G. Kay, Allegheny City, Pa. Nut-lock	287,390	Oct. 23	2034	552	25	388
Reese, David W., Canal Dover, Ohio. Car-wheel	289,712	Dec. 4	434	121	25	962
Reese, David W., Canal Dover, Ohio. Car-wheel	289,713	Dec. 4	435	121	25	962
Reese, George F., Brooklyn, N. Y. Temporary dental plate	286,845	Oct. 16	1344	368	25	258
Reese, Henry, Baltimore, Md. Metallic sleeper for railways	272,477	Feb. 20	1126	{316 {317	{23	651
Reese, Jacob, Allegheny, Pa. Dephosphorizing iron in an open-hearth furnace	284,233	Sept. 4	98	.....	24	921
Reese, Jacob, Allegheny, Pa. Producing ingot iron and steel	286,067	Oct. 2	354	.....	25	65
Reese, Jacob, Pittsburg, Pa. Regenerator for securing a uniform temperature in steel ingots	270,249	Jan. 9	500	148	23	108
Reese, Jacob, Pittsburg, Pa. Basic process for the dephosphorization of iron and steel	272,085	Feb. 13	623	.....	23	560
Reese, Jacob, Pittsburg, Pa. Universal rolling-mill	272,086	Feb. 13	625	{169 {170	{23	560
Reese, Jacob, Pittsburg, Pa. Compound ordnance	272,900	Feb. 27	1684	{471 {472	{23	757
Reese, Jacob, Pittsburg, Pa. Blast-furnace plant	273,311	Mar. 6	87	26	23	849
Reese, Jacob, Pittsburg, Pa. Continuous rolling-mill	275,856	Apr. 17	1293	355	23	1462
Reese, Jacob, Pittsburg, Pa. Machine for rolling hoops, sheets, or hollow cylinders	276,284	Apr. 24	1809	504	23	1561
Reese, Jacob, Pittsburg, Pa. Machinery for and method of manufacturing steel railway-rails	276,712	May 1	230	58, 59	23	1664
Reese, Jacob, Pittsburg, Pa. Process of and apparatus for converting cast-iron into cast-steel	277,929	May 22	1728	472	23	1942
Reese, Jacob, Pittsburg, Pa. Basic bessemer process	278,363	May 29	2308	.....	23	2052
Reese, Jacob, Pittsburg, Pa. Utilizing the phosphorus and iron of forge-cinder	278,737	June 5	78	.....	23	2137
Reese, Jacob, Pittsburg, Pa. Fire-escape	278,820	June 5	192	56	23	2155
Reese, Jacob, Pittsburg, Pa. Obtaining purified iron in the Bessemer basic process	279,596	June 19	1230	.....	23	2347
Reese, Jacob, Pittsburg, Pa. Manufacture of cast-iron high in carbon and low in silicon	281,729	July 24	1754	.....	24	325
Reese, Jacob, Pittsburg, Pa. Production of ferro-phosphorus	282,118	July 31	2261	.....	24	413
Reese, Jacob, Pittsburg, Pa. Manufacturing crucible cast-steel	283,141	Aug. 14	792	.....	24	647
Reese, Jacob, Pittsburg, Pa. Basic process for the manufacture of homogeneous ingot iron and steel	284,574	Sept. 4	506	.....	24	989
Reese, Jacob, Pittsburg, Pa. Utilizing phosphorus and steel-scrap in the basic process	285,431	Sept. 25	1561	.....	24	1194
Reese, Jacob, Pittsburg, Pa. Converting cast-iron into fibrous wrought-iron	286,330	Oct. 9	702	.....	25	137
Reese, Jacob, Pittsburg, Pa. Process of and plant for producing cast-iron high in carbon and with a predetermined percentage of silicon	287,054	Oct. 23	1613	{444 {445	{25	312
Reese, Jacob, Pittsburg, assignor to Bessemer Steel Company, (limited,) Philadelphia, Pa. Dephosphorizing metal by the Bessemer process	278,738	June 5	79	.....	23	2137
Reese, John H. (See Cook, George W., assignor.)						
Reetz, William, Chicago, Ill. Extension case or box	287,473	Oct. 30	2143	582	25	417
Reeve, Addison A., *et al.* (See Farmer, James C., assignor.)						
Reeve, George W., Milburn, N. J. Sash-fastener	286,224	Oct. 9	540	148	25	109
Reeve, Thomas, Brooklyn, N. Y., assignor to Watkins Automatic Signal Telegraph Company, (limited,) of New York. Electric thermostat	269,960	Jan. 2	164	48	23	34
Reeves, Abbott M., assignor to himself and W. W. Beaty, Mansfield, Ill. Paper-bag and twine holder	288,116	Nov. 6	404	114	25	578
Reeves, Alfred B. (See Reeves, Marshal T. and A. B.)						
Reeves, Alfred B., assignor to Reeves & Co. and J. I. Irwin, Columbus, Ohio. Truck for straw-stackers	279,184	June 12	720	197	23	2256
Reeves, Benjamin F., Tuckahoe, N. J. Jack-screw	273,894	Mar. 13	844	229	23	986
Reeves, Charles W., assignor to M. M. Holmes & Co., Philadelphia, Pa. Chair	288,737	Nov. 20	1201	329	25	730
Reeves & Co., *et al.* (See Reeves, Alfred B., assignor.)						
Reeves & Co., *et al.* (See Reeves, Marshal T. and A. B., assignors.)						
Reeves, Henry C. (See Reeves, William F. and H. C.)						
Reeves, Marshal T. and A. B., Columbus, Ind. Straw-stacker	284,234	Sept. 4	100	27	24	921
Reeves, Marshal T. and A. B., assignors to Reeves & Co. and J. I. Irwin, Columbus, Ind. Straw-stacking machine	272,155	Feb. 13	710	195	23	575
Reeves, Matthew, Madison, assignor of one-half to A. P. Pilger, Norfolk, Nebr. Churn	288,738	Nov. 20	1202	329	25	730
Reeves, William F. and H. C., Meredith, Kans. Weed-cutter	287,163	Oct. 23	1748	479	25	337
Refsum, Bodvar, Chicago, Ill. Carpet-sewing machine	271,515	Jan. 30	2106	606	23	420
Rehfuss, George, assignor to himself, J. G., and M. O. Rehfuss, Philadelphia, Pa. Dental plugger	271,986	Feb. 6	494	133	23	526
Rehfuss, J. George, *et al.* (See Rehfuss, George, assignor.)						
Rehfuss, Martin O., *et al.* (See Rehfuss, George, assignor.)						
Reich, George A., San Francisco, Cal. Sewer-trap	278,045	May 22	1869	511	23	1967
Reichenbach, Oscar, deceased, assignor to R. C. Jenkinson, Newark, N. J. Staple and lock for bag-frames. (Reissue)	10,383	Sept. 18	1481	417	24	1173
Reichle, Adolph, Detroit, Mich. Two-wheeled vehicle	286,734	Oct. 16	1204	325	25	234
Reichling, Oscar E. H. N., assignor of one-half to G. H. Stuart and C. E. Ernest, Marion, Ind. Wrench	275,079	Apr. 3	265	73	23	1271
Reid, Adam, Buffalo, N. Y. Baking-oven	287,962	Nov. 6	220	62	25	545
Reid, Alban H., Philadelphia, Pa. Butter-working machine	283,142	Aug. 14	794	222	24	647
Reid, Alban H., Philadelphia, Pa. Milk-cooler	283,921	Aug. 28	1752	495	24	841
Reid, Benjamin A. (See Elder, Joseph, assignor.)						
Reid, Charles H., Danbury, assignor to R. H. Brown & Co., New Haven, Conn. Lathe-chuck	279,017	June 5	494	134	23	2207
Reid, Harvey N., Mount Sterling, Ky. Fruit-drier	280,242	June 26	1999	562	23	2489
Reid, Henry, London, county of Middlesex, England. Jogging apparatus for concrete and the like	273,606	Mar. 6	471	127	23	914
Reid, James W., Union City, Mich. Bundle-carrier for harvesters	271,119	Jan. 23	1593	458	23	322

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Reid, John, Brooklyn, assignor to J. L. Mott Iron Works, New York, N. Y. Wash-tub support	271,516	Jan. 30	2107	606	23	420
Reid, John, Brooklyn, assignor to J. L. Mott Iron Works, New York, N. Y. Cistern for water-closets	280,243	June 26	2000	562, 563	23	2489
Reid, John M., Montreal, Quebec, Canada. Metallic fence	274,820	Mar. 27	2020	562	23	1206
Reid, John T., Paige, Tex. Vehicle for cotton-pickers	273,157	Feb. 27	1990	560	23	810
Reid, John W. (See Fickett and Reid.)						
Reid, Joseph, Wyandotte, Kans. Refrigerating apparatus	281,793	July 24	1842	504	24	339
Reid, Robert, Philadelphia, Pa. Hoisting-machine	278,821	June 5	192	56	23	2155
Reid, Royal T. (See Torrence and Reid.)						
Reid, Samuel, Chicago, Ill. Lubricator	273,312	Mar. 6	89	27	23	849
Reid, Thomas, Walkerville, Ontario, Canada. Feeder for mill-rolls	279,982	June 26	1689	474	23	2433
Reid, William A., assignor to N. O. Nelson & Co., St. Louis, Mo. Packing for ice-machines	275,269	Apr. 3	492	136	23	1310
Reidy, James, Pittsfield, Mass. Fire-escape	288,117	Nov. 6	404	114	25	578
Reidy, Maurice A., assignor of one-half to D. F. Flannery, Chicago, Ill. Metallic clasp	288,118	Nov. 6	406	114	25	578
Reiff, Gustavus N., Philadelphia, Pa. Elevator	275,080	Apr. 3	266	73	23	1271
Reiff, Gustavus N., Philadelphia, Pa. Hydraulic or other elevator	275,857	Apr. 17	1295	356	23	1462
Reiff, Gustavus N., Philadelphia, Pa. Hydraulic and other elevators	278,739	June 5	81	23, 24	23	2137
Reiff, William H., assignor of one-third to A. M. Seip, Jr., Philadelphia, Pa. Electric-wire insulator	274,821	Mar. 27	2020	562	23	1206
Reiff, William H., assignor of one-half to W. Haydon, Philadelphia, Pa. Burglar-alarm	284,980	Sept. 11	1002	282	24	1083
Reiff, William H., assignor of one-half to W. F. Duncan, Philadelphia, Pa. Detonating burglar-alarm	287,722	Oct. 30	2477	668	25	481
Reigart, James H. (See Merriman, Lewis, assignor.)						
Reilly, Henry J., U. S. Army. Lamp-stove	278,740	June 5	82	24	23	2138
Reilly, James, New York, N. Y. Casing for steam-pipes, &c	282,368	July 31	2578	707	24	470
Reilly, John C. (See Root and Reilly.)						
Reilly, Patrick. (See Fox, Edward, assignor.)						
Reilly, Patrick, Mattoon, Ill. Car-truck	279,185	June 12	721	197	23	2256
Reilly, Patrick, Mattoon, Ill. Air-brake for cars and locomotives	290,269	Dec. 18	1113	313	25	1099
Reily, John O., Warren Tavern, Pa. Sash-fastener	270,607	Jan. 16	966	279	23	206
Reimers, Jacob, Davenport, Iowa. Fanning apparatus	270,123	Jan. 2	342	100	23	70
Rein, Ernest, Milwaukee, Wis. Device for grinding and grooving mill-rollers	289,556	Dec. 4	231	64, 65, 66	25	927
Reinecke, John P., Pittsburg, Pa. Cover for oil-tanks	289,557	Dec. 4	233	66	25	927
Reinicke, Hermann, Cöthen, Anhalt, Germany. Pulp-strainer	287,164	Oct. 23	1749	479	25	337
Reiner, Isaiah H., Line Lexington, Pa. Harrow-tooth	282,223	July 31	2394	659	24	438
Reiners, Marcus G. (See Frakes and Reiners.)						
Reinl, John G., assignor to Pottier and Stymus Manufacturing Company, New York, N. Y. Window-ventilator	287,055	Oct. 23	1616	445	25	312
Reiser, Christ, assignor to Reiser Steam Boiler Cleaner Company, (limited,) Prairie du Chien, Wis. Steam-boiler cleaner	272,770	Feb. 20	1495	420	23	717
Reiser Steam Boiler Cleaner Company. (See Reiser, Christ, assignor.)						
Reisert, Hans, Cologne-on-the-Rhine, Germany. Apparatus for lubricating bearings	287,963	Nov. 6	221	62, 63	25	546
Reiss, George T., assignor to Niles Tool Works, Hamilton, Ohio. Metal screw-machine	273,313	Mar. 6	92	27	23	849
Reiss, George T., assignor to Niles Tool Works, Hamilton, Ohio. Boring-mill attachment	274,517	Mar. 27	1667	463	23	1143
Reisseig, Wilhelm, Darmstadt, Germany, assignor to C. Schmidt, New York, N. Y. Stamping-ink	277,342	May 8	1032	.....	23	1810
Reiter, Abraham, *et al.* (See Lugenbell, Peter, assignor.)						
Reiter & Co. (See Baird, James, assignor.)						
Reitz, Peter, *et al.* (See Engel, George, assignor.)						
Reixach, José. (See Lister and Reixach.)						
Reling, Charles. (See Stanton and Reling.)						
Remacle, Leopold L., New York, N. Y. Micrometer-calipers	288,736	Nov. 20	1200	398	25	730
Rembert, Henry, Willis, Tex. Fire-place	279,433	June 12	1036	287	23	2307
Remington, Charles H. (See O'Hara and Remington.)						
Remington, John O., Hingham, assignor to Burr, Brown & Co., Boston, Mass. Tassel	277,609	May 15	1353	364, 365	23	1869
Remington, Moses, and J. L. Riter, Brownsville, Ind. Clothes-pounder	285,930	Oct. 2	196	55	25	38
Remus, Teodor, Dresden, Saxony, Germany. Match-box	283,143	Aug. 14	795	222	24	648
Remy, Marion I., Columbus, Ind. Ironing-machine	275,081	Apr. 3	267	73	23	1272
Remy, Noah T., Milton, Ind. Twine tension and take-up device for grain-binders	274,822	Mar. 27	2021	563	23	1206
Remy, Noah T., assignor of one-half to Dorsey Machine Company, Milton, Ind. Grain-binder	276,469	Apr. 24	2054	570	23	1602
Renchard, Francis J., Detroit, Mich. Lubricator	278,741	June 5	83	24	23	2138
Renchard, J. Vincent, Windsor, Ontario, Canada. Lubricator	273,158	Feb. 27	1991	560, 561	23	810
Renchard, J. Vincent, Windsor, Ontario, Canada. Lubricator	275,707	Apr. 10	1090	297, 298	23	1420
Renchard, J. Vincent, Windsor, Ontario, Canada. Lubricator	285,432	Sept. 25	1562	440	24	1194
Renchard, J. Vincent, Windsor, Ontario, Canada. Lubricator	288,665	Nov. 20	1104	303	25	715
Renchard, John J., Detroit, Mich. Oil-cup	278,742	June 5	84	24	23	2138
Renchard, Joseph V., Windsor, Ontario, Canada. Lubricator	273,314	Mar. 6	93	27, 28	23	849
Rend Rock Powder Company. (See Divine, Silas R., assignor.)						
Rend Rock Powder Company. (See Divine and Rand, assignors.)						
Rendle, Frank B., *et al.*, executors. (See Rendle, William E.)						
Rendle, John E., *et al.*, executors. (See Rendle, William E.)						
Rendle, William E., deceased, J. E. and F. B. Rendle, Westminster, England, and D. H. Wilson, Hyères, Var, France, executors. Construction of glazed roofs	270,337	Jan. 9	607	179	23	128
Renfro, John N., assignor of one-half to J. A. Headlee, Ebenezer, Mo. Churn	282,224	July 31	2394	659	24	438
Renfroe, James K. P., Prentiss, Ga. Tool for cutting slots in rails	274,659	Mar. 27	1832	508	23	1173
Renick, Gasper, and J. A. Curtis, Greencastle, Ind. Two-wheeled vehicle	279,809	June 19	1470	412	23	2389
Reniker, David, Wabash, Ind. Fence	277,930	May 22	1730	472	23	1943
Renner, Georg and P., and G. H. Knight, Cincinnati, Ohio. Malt-kiln	283,723	Aug. 21	1510	426, 427	24	787
Renner, Peter. (See Hoff, Charles, assignor.)						
Renner, Peter. (See Renner and Knight.)						
Rennie, William. (See Carter and Rennie.)						
Renouf, George F., Battle Creek, Mich. Car-brake	279,018	June 5	495	134	23	2207
Rensch, Henry, Quincy, Ill. Fire-escape	281,136	July 10	982	275	24	180
Renshaw, David, Boston, Mass. Sectional steam-generator	274,824	Mar. 27	2023	563	23	1206
Renshaw, David, Boston, Mass. Sectional boiler	274,825	Mar. 27	2024	563	23	1207
Renshaw, David, Braintree, Mass. Spring bed-bottom	274,823	Mar. 27	2022	563	23	1206

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Renshaw, David, Braintree, Mass. Steam-radiator	274,926	Mar. 27	2025	564	23	1207
Renshaw, David, Braintree, Mass. Injector	274,968	Apr. 3	111	31	23	1244
Renshaw, David, Braintree, Mass. Utilizing the exhaust of engines	274,969	Apr. 3	113	32	23	1244
Renshaw, David, Braintree, Mass. Utilizing the exhaust of engines	274,970	Apr. 3	114	32	23	1244
Renshaw, David, Braintree, Mass. Utilizing the exhaust of engines	274,971	Apr. 3	115	32	23	1244
Renshaw, David, Braintree, Mass. Utilizing the exhaust of engines	274,972	Apr. 3	116	32	23	1245
Renshaw, David, Braintree, Mass. Utilizing the exhaust of engines	274,973	Apr. 3	116	33	23	1245
Renshaw, David, Braintree, Mass. Utilizing exhaust-steam	274,974	Apr. 3	117	33	23	1245
Renshaw, David, Braintree, Mass. Utilizing exhaust-steam	274,975	Apr. 3	118	33	23	1246
Renshaw, David, Braintree, Mass. Maintaining high pressure in superheaters	282,772	Aug. 7	359	101	24	563
Renshaw, David, Braintree, Mass. Utilizing exhaust-steam	282,773	Aug. 7	360	101, 102	24	563
Renshaw, David, Braintree, Mass. Maintaining pressure in superheaters	282,774	Aug. 7	361	102	24	563
Renshaw, David, Braintree, Mass. Maintaining pressure in superheaters	285,843	Oct. 2	75	22	25	15
Renshaw, David, Braintree, Mass. Utilizing exhaust	290,473	Dec. 18	1389	324	25	1147
Renshaw, David, assignor of one-third to E. Lally, Boston, Mass. Spring bed-bottom	271,517	Jan. 30	2108	606	23	420
Renton, George W., Brooklyn, assignor to G. E. Raymond, New York, N. Y. Boat-plug	275,270	Apr. 3	493	137	23	1310
Rentschler, Fredrick, San Francisco, Cal. Bed-lounge	287,165	Oct. 23	1751	480	25	338
Rentz, John, Quincy, Ill. Grinding-machine	282,225	July 31	2395	659	24	438
Renwick, Edward S., Millburn, N. J. Manufacturing starch, &c	272,324	Feb. 13	910	255	23	610
Renwick, Edward S., Millburn, N. J. Thermostat for incubators	281,397	July 17	1319	364, 365	24	246
Renwick, Edward S., Millburn, N. J. Incubator	281,398	July 17	1321	365, 366	24	246
Renz, John E. (See Eberhard and Renz.)						
Renz, John E., Medina, Ohio. Gig-saddle	284,235	Sept. 4	101	27	24	921
Repass, William H., Martin's Station, assignor of one-half to A. Sult, Wytheville, Va. Nut-lock	270,124	Jan. 2	342	100	23	70
Replogle, Jacob M., Farragut, Iowa. Bail and driver for millstones	271,270	Jan. 30	1760	517	23	361
Requa, Elias B., Jersey City, N. J. Gas-burner	275,708	Apr. 10	1092	298	23	1421
Requa, Elias B., Jersey City, N. J. Gas-burner	275,709	Apr. 10	1094	299	23	1421
Requa, Elias B., Jersey City, N. J. Lamp	280,669	July 3	395	110	24	70
Requa, Ella L., New York, N. Y. Tablet for teaching penmanship	274,031	Mar. 13	1005	275	23	1014
Requa, Leonard F. (See Thomas, Joseph D., assignor.)						
Resley, Horace, Cumberland, Md. Bottle-stopper fastening	273,159	Feb. 27	1996	561	23	811
Resley, Horace, Cumberland, Md. Car-truck	279,434	June 12	1037	287	23	2308
Resor, John W., Jem, Mo. Chimney-sweeper	282,775	Aug. 7	362	102	24	564
Ressegieu, James, assignor of one-fourth to L. Watson, Cleopatra, Mo. Corn-planter	274,382	Mar. 20	1462	400	23	1102
Retsloff, Otto C., Winnebago City, Minn. Pendulum	272,978	Feb. 27	1772	496	23	771
Reukauff, George C., *et al.* (See Donoghue, William, assignor.)						
Reuleaux, Franz, Berlin, Germany. Apparatus for starting, stopping, and reversing rotary motion	271,987	Feb. 6	495	133	23	526
Reuleaux, Franz, Berlin, Germany. Apparatus for starting, stopping, and reversing rotary motion	272,325	Feb. 13	913	255	23	611
Reusch, Carl. (See Reusch, Hermann, assignor.) (Reissue.)						
Reusch, Hermann, Dillingen-on-the Saar, Prussia, Germany, assignor to C. Reusch, New York, N. Y. Plating iron and steel. (Reissue)	10,367	Aug. 14	1088	.....	24	702
Reuther, Carl, Hennef, Prussia, Germany. Automatic weighing-machine	282,226	July 31	2396	659, 660	24	438
Reutlinger, Adolph. (See Stitzel, Frederick, assignor.)						
Rew, Henry C., Chicago, Ill. System of mains and pipes for the distribution of gas or other fluids	290,925	Dec. 25	1972	544	25	1255
Rew, Henry C., Chicago, Ill. Process of and apparatus for manufacturing gas	290,926	Dec. 25	1974	545	25	1255
Rew, Henry C., Chicago, Ill. Flue and tubular steam-generator	290,927	Dec. 25	1979	546	25	1256
Rew, Henry C., Chicago, Ill. Gas-purifier	290,928	Dec. 25	1981	546	25	1256
Rew, Henry C., Chicago, Ill. Gas-cooling apparatus	290,929	Dec. 25	1982	546	25	1256
Rew, Henry C., Chicago, Ill. Process of and apparatus for manufacturing fixed gas	290,930	Dec. 25	1983	547, 548	25	1257
Rex, A., *et al.* (See Hunter, George W., assignor.)						
Rex, Alfred C. (See Kyser and Rex.)						
Rex, Alfred C., Philadelphia, Pa. Ice pick or cutter	281,644	July 17	1630	445	24	297
Rexford, Philander, Syracuse, N. Y. Fire-grate	283,144	Aug. 14	796	222	24	648
Reynolds, Andrew J. (See Howe, William F., assignor.)						
Reynolds, Benjamin F., Verona, Pa. Sash-holder	291,003	Dec. 25	2090	576	25	1273
Reynolds Brothers. (See Vincent, William E., assignor.)						
Reynolds, Charles E., Philadelphia, Pa. Trunk-fastening	284,899	Sept. 11	900	254	24	1065
Reynolds, Christopher C., Prescott, Ariz. Ter. Phonograph	287,166	Oct. 23	1752	480, 481	25	338
Reynolds, Clark G., Prophetstown, Ill. Seed-corn hanger	285,159	Sept. 18	1238	348	24	1130
Reynolds & Co. (See Motley, Francis F., assignor.)						
Reynolds & Co. (See Reynolds, Henry, assignor.)						
Reynolds, David R., assignor of three-fourths to P. F. Cole, R. O. Curl, and W. A. Badger, Bellefontaine, Ohio. Show and storage case	274,032	Mar. 13	1005	275	23	1014
Reynolds, Edmund B., *et al.* (See Clarke, John N., assignor.)						
Reynolds, Eli H. (See Dederick, Levi, assignor.)						
Reynolds, Frank M., and G. C. Tewksbury, Newark, N. J. Elevator	280,670	July 3	398	111	24	71
Reynolds, George H., assignor of two-thirds to C. H. Delamater and G. H. Robinson, New York, N. Y. Air-compressing machinery	272,771	Feb. 20	1496	421	23	717
Reynolds, George H., assignor of two-thirds to C. H. Delamater and G. H. Robinson, New York, N. Y. Auxiliary steam-power for sailing-vessels	278,182	May 22	2040	560, 561	23	1997
Reynolds, George H., assignor of one-half to C. H. Delamater, G. H. Robinson, and W. Delamater, New York, N. Y. Valve for air and gas engines	278,270	May 22	2159	593	23	2016
Reynolds, George H., assignor of one-half to C. H. Delamater, G. H. Robinson, and W. Delamater, New York, N. Y. Gas-engine	284,061	Aug. 28	1945	543	24	875
Reynolds, George H., assignor of one-half to C. H. Delamater, G. H. Robinson, and W. Delamater, New York, N. Y. Gas-engine	284,328	Sept. 4	209	58	24	940
Reynolds, George H., assignor of one-half to C. H. Delamater, G. H. Robinson, and W. Delamater, New York, N. Y. Engine-governor	285,679	Sept. 25	1849	528	24	1248
Reynolds, George H., assignor of one-half to C. H. Delamater, G. H. Robinson, and W. Delameter, New York, N. Y. Gas-engine	287,578	Oct. 30	2284	619	25	444
Reynolds, Henry, assignor to Reynolds & Co., New Haven, Conn. Molding-machine	281,926	July 24	2003	549	24	368
Reynolds, Henry S., Brooklyn, assignor to Iron Clad Manufacturing Company, New York, N. Y. Coal-scuttle	279,502	June 12	1115	308	23	2320
Reynolds, Humphrey H., Minneapolis, Minn. Window-ventilator for railway-cars	275,271	Apr. 3	494	137	23	1310

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
olds, James H. (See Dénéchand and Reynolds.)						
olds, John H. (See Shaw, Charles H., assignor.)						
olds, John R., Jackson, Mich. Machine for cleaning grain	284,672	Sept. 11	629	178	24	1016
olds, John M., Oswego, N. Y., assignor to J. H. Mandeville, trustee, Washington, ?. Passenger-ticket	288,594	Nov. 13	1014	279	25	693
olds, Jonathan, Summit, Miss. Seed-planter	286,068	Oct. 2	856	99	25	65
olds, Josiah J., Corinth, Miss. Counter or table stool	283,512	Aug. 21	1263	354	24	740
olds, Lewis G., Dayton, Ohio. Writing-paper tablet	289,933	Dec. 11	697	196	25	1015
olds, Margaret, tutrix. (See Reynolds, William H.)						
olds, Richard S. (See Cockell, Harvey, assignor.)						
olds, Samuel F., Auburn, N. Y. Apparatus for filtering and refrigerating water	277,931	May 22	1731	472	23	1943
olds, Stanley, and L. Sander, Rochester, N. Y.; said Sander assignor to said Reynolds. tener for burial-caskets	290,931	Dec. 25	1967	548	25	1257
olds, William, 514 Oxford Street, county of Middlesex, England. Pad for the feet of ses	272,156	Feb. 13	711	195	23	575
olds, William H., deceased; M. Reynolds, tutrix, New Orleans, La. Baling-press	286,846	Oct. 16	1345	368	25	259
olds, William L. (See Burridge, Thomas H., assignor.)						
olds, William R., Rahway, N. J., assignor to C. M. Thompson, Brooklyn, N. Y. Orna- ital fence-wire	287,391	Oct. 23	2035	553	25	388
bottom, James R., and F. M. Mack, Weedsport, N. Y. Bustle	275,710	Apr. 10	1096	299	23	1421
les, Lewis H., Bay Centre, Wash. Ter. Anchor	270,484	Jan. 9	795	232	23	165
les, Lyman, New York, N. Y. Lock	271,271	Jan. 30	1781	517	23	362
les, Lyman, and J. P. Sipp, New York, N. Y. Key-hole guard	285,074	Sept. 18	1130	316	24	1112
les, Lyman, and J. P. Sipp, New York, N. Y. Key-hole guard	289,446	Dec. 4	88	25	25	902
ls, Edgar K. (See Rhoads, Jacob, assignor.)						
ls, Jacob, Watsontown, assignor to himself and E. K. Rhoads, Mahanoy City, Pa. iovable lip for cups, bottles, &c.	280,515	July 3	217	57	24	39
ls, John, Philadelphia, Pa. Car-brake hanger	290,356	Dec. 18	1223	343	25	1118
s Island Telephone and Electric Company. (See Breckenridge, Henry W., assignor.)						
:s, Alexander C. (See Cagle, Alexander W., assignor.)						
:s, Alexander C., Little Rock, Ark. Show-box cover	278,743	June 5	85	25	23	2138
:s, Benjamin, London, county of Middlesex, England. Composition of matter for re- ing fire, water, and acids	278,046	May 22	1870	.....	23	1967
:s, C. M. (See Wallace, William M., assignor.)						
:s, John P. (See Smith and Rhodes.)						
:s, Thomas B. (See Robinson, Abel W., assignor.)						
:s, Thomas H., New York, N. Y. Push-button and circuit for lighting gas by elec- ity	276,285	Apr. 24	1812	505	23	1561
:s, Thomas H., Brooklyn, N. Y. Electric cut-out	276,286	Apr. 24	1813	505	23	1561
:s, Thomas H., Brooklyn, N. Y. Electric gas-lighting	277,610	May 15	1354	365	23	1870
:s, William H., Chicago, Ill. Post-hole digger	281,137	July 10	983	275	24	180
:s, William K., *et al.* (See Bowie, Otin R., assignor.)						
, Jacob, assignor of one-half to J. H. Jantzen, Pittsburg, Pa. Car-coupling	278,598	May 29	2583	705	23	2100
, Henry, Cincinnati, Ohio. Pipe-tongs	286,847	Oct. 16	1346	368	25	259
t, Samuel E., Galion, Ohio. Mechanical advertising apparatus	290,474	Dec. 18	1390	384	25	1147
, Cerbeleon M., Mompos, Bolivar, United States of Colombia. Machine for the man- ture of pottery	282,369	July 31	2579	{707 / 708}	24	470
Alvah, assignor of one-half to S. Wheeler, Rochester, N. Y. Car-coupling	271,272	Jan. 30	1782	518	23	362
Alva C., Worcester, Mass. Safety attachment for elevators	277,343	May 8	1032	277	23	1810
Barton & Fales Machine and Iron Company. (See Barton, Charles S., assignor.)						
Bernard, Brooklyn, N. Y. Beer-chip	279,019	June 5	496	134	23	2208
Bernard, Brooklyn, N. Y. Beer-chip cutting and reaming machine	280,952	July 10	764	212	24	140
Bernard, Brooklyn, N. Y. Toy drum	286,069	Oct. 2	357	99	25	66
Bernard, Brooklyn, N. Y. Beer-chip	286,637	Oct. 16	1080	291	25	212
Charles S., Jr., Chicago, Ill. Disinfecting apparatus for water-closets	276,470	Apr. 24	2055	571	23	1602
Darius C., assignor to J. H. Stoddard and A. J. Lovejoy, Litchfield, Mich. Animal- e	270,843	Jan. 16	1256	361	23	260
David H. (See Currier and Rice.)						
David H., Lowell, Mass. Spindle and support therefor	275,519	Apr. 10	858	232	23	1381
George E., Boston, Mass. Disinfectant	289,858	Dec. 11	611	.....	25	1000
George F., Worcester, Mass. Roll for roller-skates	287,861	Nov. 6	83	25	25	522
Henry F., Sutton, Mass. Pattern-chain bar for looms	283,816	Aug. 28	1634	460	24	820
Jacob E., Twin Lakes, Colo. Roasting and reducing furnace for gold and silver ores.	275,272	Apr. 3	495	137	23	1310
James, Detroit, Mich. Device for increasing the organic action of the blood, or medi- manipulator	285,160	Sept. 18	1239	348	24	1130
Joel F., assignor of two-thirds to W. H. Morrow and J. Block, Louisiana, Mo. Car- pling	285,680	Sept. 25	1850	529	24	1248
John M., Springfield, Mass. Car-brake	280,244	June 26	2002	563	23	2489
John S., Cambridge, Mass. Sheet-metal can	278,271	May 22	2159	{593 / 594}	23	2017
R. Fredrick, assignor to himself and J. A. Reeder, Hartford, Conn. Tap-wrench	272,478	Feb. 20	1128	317	23	652
Truman B., *et al.* (See Baker, William H., assignor.)						
William C., Oakland, Iowa. Device for clearing railway-cuts of snow	284,900	Sept. 11	901	{254 / 255}	24	1065
William E., Worcester, Mass. Lubricant for wire	270,338	Jan. 9	609	.....	23	129
Augustus E., Fall River, Mass. Device for emptying bottles	289,447	Dec. 4	89	25	25	902
George W., Chicago, Ill. Piano-stool	275,413	Apr. 10	721	192	23	1358
George W., Chicago, Ill. Hammock	280,081	June 26	1814	510	23	2455
John W., Mechanicsburg, Pa. Indicator for type-writers or caligraphs	284,901	Sept. 11	903	255	24	1066
Lester M. (See Munger, Theodore C., assignor.)						
rd, Jean E., New York, N. Y. Overstitching-machine	280,765	July 3	526	{147 / 148}	24	93
rds, Arthur M., and E. Dinsley, Chicago, Ill. Car-seat	285,433	Sept. 25	1564	440	24	1194
rds, Augustus, Sr., Willis, Tex Stand and rack for exhibiting goods	279,810	June 19	1471	412	23	2389
rds, Brown & Co., C. I. (See Moore, John, assignor.)						
rds, Celius E., North Attleborough, Mass. Swivel-hook for ornamental chains	274,033	Mar. 13	1006	276	23	1014
rds, Charles B., Philadelphia Pa. Cut-off governor for steam-engines	290,113	Dec. 11	913	259	25	1056
rds, Charles R. (See Orcutt and Richards.)						
rds & Co. (See Cragin, Patrick H., assignor.)						
rds, Elias, and A. Krieger, Salamanca, N. Y. Steam-cylinder cock	270,250	Jan. 9	502	148	23	108
rds, Ervin E., *et al.* (See Fulton, John M., assignor.)						
rds, Francis H., Cleveland, Ohio. Mechanism for converting motion	286,225	Oct. 9	541	149	25	110
rds, Francis H., Springfield, Mass. Tapping and facing machine	277,611	May 15	1355	365	23	1870
rds, Francis H., Springfield, Mass. Friction-clutch	283,145	Aug. 14	797	223	24	648

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Richards, Francis H., Springfield, Mass. Envelope-machine	284,483	Sept. 4	390	108, 109, 110	24	970
Richards, Francis H., Springfield, Mass. Car-coupling	284,902	Sept. 11	904	255, 256	24	1066
Richards, Francis H., Springfield, Mass. Turning-lathe	285,931	Oct. 2	196	55	25	38
Richards, Francis H., Springfield, Mass. Driving mechanism for oscillating printing-presses	289,558	Dec. 4	234	66	25	927
Richards, Francis H., Springfield, Mass., assignor to J. Hayden Brass Company, Lorain, Ohio. Machine for finishing globe-valve bodies	281,138	July 10	984	275, 276	24	180
Richards, Francis H., Springfield, Mass., assignor to J. D. Cox, Jr., and F. F. Prentiss, Cleveland, Ohio. Machine for making twist-drills	286,150	Oct. 2	451	123	25	84
Richards, Henry C., Cincinnati, Ohio. Stringing pianos	280,953	July 10	765	212	24	140
Richards, James E., Cedar Keys, Fla. Watchman's electric time-detector	270,125	Jan. 2	343	101	23	70
Richards, James F. (See Martin and Richards.)						
Richards, James F., assignor of one-half to H. Badcock, Titusville, Pa. Compound for coating dry-sand molds and cores	276,628	May 1	105	.....	23	1645
Richards, John, San Francisco, Cal. Drilling-machine	287,326	Oct. 23	1958	535	25	374
Richards, John T., *et al.* (See Swanson, Nels, assignor.)						
Richards, Levi, Providence, R. I., assignor R. L. Moorhead, Brooklyn, N. Y. Jewelry-mounting	271,988	Feb. 6	497	134	23	526
Richards, Matthew H., Spencer, Iowa. Adjustable pumping and measuring machine	286,070	Oct. 2	358	99	25	66
Richards, Ranson, *et al.* (See Jones, Richard B., assignor.)						
Richards, Ransom. (See Jones and Wetherell, assignors.)						
Richards, Robert H., Boston, Mass., and F. G. Coggin, Lake Linden, Mich. Ore and mineral separator	271,657	Feb. 6	87	24	23	455
Richards, Samuel, Philadelphia, Pa. Fire-shield	274,976	Apr. 3	119	33, 34	23	1246
Richards, Samuel, Philadelphia, Pa. Combined portable fire-arrester and fire-escape	274,977	Apr. 3	121	34	23	1246
Richards, Thomas C., Winsted, Conn. Securing knives and forks to handles	277,932	May 22	1733	472	23	1943
Richards, Thomas C., Winsted, Conn. Cornice-hook	283,280	Aug. 14	970	271	24	680
Richards, William N., Lyons, N. Y. Car-coupling	272,979	Feb. 27	1773	496	23	771
Richards, William P., Orange, N. J. Umbrella-case fastener	287,474	Oct. 30	2144	583	25	417
Richardson, Alister M., Charleston, S. C. Automatic fan	288,119	Nov. 6	406	115	25	579
Richardson, Benjamin C., Detroit, Mich. Milk-cooler	286,331	Oct. 9	703	187	25	137
Richardson, Benjamin H., Milton, and B. P. Richardson, Boston, Mass., assignors to said B. P. Richardson. Folding table	290,932	Dec. 25	1988	548	25	1257
Richardson, Benjamin P. (See Richardson, Benjamin H. and B. P.)						
Richardson, Charles H. (See Moody, Nathan C., assignor.)						
Richardson, Dwight S., Brooklyn, N. Y. Radiator for furnaces	272,326	Feb. 13	916	255	23	611
Richardson, Dwight S., Brooklyn, N. Y. Radiator for furnaces	279,666	June 19	1313	365	23	2361
Richardson, Dwight S., Brooklyn, N. Y. Heating-drum	282,567	Aug. 7	113	34	24	520
Richardson, Edward M., assignor to himself and G. L. Mason. Laconia, N. H. Car-coupling	289,883	Jan. 2	69	21	23	16
Richardson, Francis M., assignor of one-half to J. F. Childers, Waddam's Grove, Ill. Churn	282,669	Aug. 7	232	67	24	540
Richardson, Frederick, Providence, R. I. Heel-plate for rubber boots and shoes	270,911	Jan. 23	1342	387	23	281
Richardson, Gamos, and G. Enderson, San José, Cal. Orchard-cultivator	279,277	June 12	823	228	23	2274
Richardson, George. (See Marvin, William, assignor.)						
Richardson, George W., Plano, Ill. Device for converting motion	288,739	Nov. 20	1202	329	25	730
Richardson, George W., Boston, Mass., assignor to Consolidated Safety Valve Company, Hartford, Conn. Safety-valve	283,146	Aug. 14	799	223	24	648
Richardson, George W., Boston, Mass., assignor to Consolidated Safety Valve Company, Hartford, Conn. Safety-valve	287,167	Oct. 23	1755	481, 482	25	338
Richardson, George W., Boston, Mass., assignor to Consolidated Safety Valve Company, Hartford, Conn. Safety-valve for gas, water, &c	291,013	Dec. 25	2100	579	25	1275
Richardson, Henry B. (See Benham and Richardson.)						
Richardson, Henry M., Boston, Mass., assignor, by mesne assignments, to H. G. Parker, trustee. Child's carriage. (Reissue)	10,363	Aug. 7	556	157	24	600
Richardson, James. (See Flood and Richardson.)						
Richardson, James B. (See Allen and Richardson.)						
Richardson, James B. (See Allen, Silas J., assignor.)						
Richardson, James C., Lockland, Ohio. Insecticide mixture	273,895	Mar. 13	846	.....	23	987
Richardson, Jeremiah J., Brooklyn, N. Y. Heating-furnace	270,698	Jan. 16	1084	311	23	227
Richardson, John D., and F. L. Manchester, New York, N. Y. Dress-form	277,344	May 8	1034	277	23	1811
Richardson, John D., and F. L. Manchester, New York, N. Y. Tripod or standard	287,168	Oct. 23	1757	482	25	339
Richardson, John P., Cambridge, Mass. Safety-guard for elevator-hatchways	285,681	Sept. 25	1851	529	24	1248
Richardson, John P., Cambridge, assignor to Mason & Hamlin Organ and Piano Company, Boston, Mass. Stringing pianos	281,794	July 24	1842	504	24	339
Richardson, John S., Lowell, Mass. Picker-staff check for looms	279,597	June 19	1232	341	23	2347
Richardson, Jonathan B., Mountain View, Cal. Cartridge-loading machine	288,740	Nov. 20	1904	329, 330	25	731
Richardson, Leonard, Brooklyn, N. Y. Can	281,556	July 17	1517	416	24	279
Richardson, Marcus F. (See Freeman and Richardson.)						
Richardson, Reuben, Huntsville, Ohio. Chair	272,901	Feb. 27	1687	472	23	757
Richardson, Samuel C., *et al.* (See Mercer, John T., assignor.)						
Richardson, Samuel S., Happy Camp, Cal. Centrifugal pump and water-wheel	280,559	Dec. 4	235	67	25	928
Richardson, Samuel S., Happy Camp, Cal. Water-motor	289,560	Dec. 4	236	67	25	928
Richardson, Samuel T., *et al.* (See Blakeslee, Burton E., assignor.)						
Richardson, Samuel T., Baltimore, assignor of one-half to J. H. Shepherd, Cambridge, Md. Hoisting-gin	280,329	June 26	2111	592	23	2508
Richardson, Wilber E., Marinette, Wis. Traction-engine	278,822	June 5	194	56, 57, 58	23	2156
Richardson, William H., San Francisco, Cal. Smoke-burning attachment for stoves, &c	281,399	July 17	1324	366	24	246
Richardson, William J., Brooklyn, N. Y. Fare-register and alarm	276,713	May 1	234	59	23	1664
Richardson, William S., Newton, assignor to C. J. Blake, trustee, Boston, Mass. Fastening for gloves	276,714	May 1	238	60	23	1665
Richardson, William W., Indianapolis, Ind. Saw-handle	275,414	Apr. 10	722	192	23	1359
Richardson, William W., Indianapolis, Ind. Saw-handle	286,638	Oct. 16	1081	291	25	212
Richey, Hiram. (See Williams and Richey.)						
Richman, Albert B. (See Murphin, Joseph, assignor.)						
Richmond, Alvan S., assignor to L. T. Sheffield, New York, N. Y. Artificial denture	277,933	May 22	1733	473	23	1943
Richmond, Cassius M., New York, N. Y. Preparing and treating teeth	277,935	May 22	1736	.....	23	1944
Richmond, Cassius M., assignor to Richmond Tooth Crown Company, New York, N. Y. Artificial denture	277,934	May 22	1735	473	23	1943

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Richmond, Cassius M., assignor to Richmond Tooth Crown Company, New York, N. Y. Artificial denture	277,936	May 22	1736	473	23	1944
Richmond, Cassius M., assignor to Richmond Tooth Crown Company, New York, N. Y. Artificial tooth	277,937	May 22	1736	474	23	1944
Richmond, Cassius M., assignor to Richmond Tooth Crown Company, New York, N. Y. Artificial denture	277,938	May 22	1737	474	23	1944
Richmond, Cassius M., assignor to Richmond Tooth Crown Company, New York, N. Y. Artificial denture	277,939	May 22	1738	474	23	1944
Richmond, Cassius M., assignor to Richmond Tooth Crown Company, New York, N. Y. Tooth-crown	277,940	May 22	1738	474	23	1944
Richmond, Cassius M., assignor to Richmond Tooth Crown Company, New York, N. Y. Artificial denture	277,941	May 22	1739	475	23	1944
Richmond, Cassius M., assignor to Richmond Tooth Crown Company, New York, N. Y. Artificial denture	277,942	May 22	1740	475	23	1944
Richmond, Cassius M., assignor to Richmond Tooth Crown Company, New York, N. Y. Preparing roots of teeth for reception of artificial dentures	277,943	May 22	1741	475	23	1944
Richmond, Cassius M., New York, N. Y., assignor to Richmond Tooth Crown Company. Artificial denture	282,119	July 31	2263	690	24	416
Richmond Caster Company. (See Ogborn, Harrison, assignor.)						
Richmond City Mill Works. (See Walters, Charles F., assignor.)						
Richmond, H ward, *et al.* (See Vaughan, Henry W., assignor.)						
Richmond, J. S., *et al.* (See Fuller, Willard M., assignor.)						
Richmond, John F., Albany, N. Y. Ironing-table	289,561	Dec. 4	237	67	25	928
Richmond, John T. (See Birnbaum and Richmond, assignors.)						
Richmond, Rome B., Macon, Ill. Pendant-ring for watches	289,141	Nov. 27	1688	469	25	826
Richmond Tooth Crown Company. (See Richmond, Cassius M., assignor.)						
Richmond, Wilbur F., Strawberry Point, Iowa. Bob-sled	290,112	Dec. 11	912	259	25	1056
Richmond, William. (See Holley, Ralph F., assignor.)						
Richter, Bruno, New York, N. Y. Neckscarf	284,484	Sept. 4	393	110	24	971
Richter, Charles, Camden, N. J. Incandescent lamp	279,811	June 19	1472	413	23	2389
Richter, Charles, Camden, N. J. Electric-arc lamp	283,662	Aug. 21	1428	400	24	772
Richter, Friedrich, Milwaukee, Wis. Beer-cooler	270,844	Jan. 16	1256	362	23	260
Richter, Joseph, Cincinnati, Ohio. Straight-way valve	273,607	Mar. 6	472	127	23	915
Richter, Paul, New York, N. Y. Sizing and filling for cotton cloth and other fabrics	278,183	May 22	2041	.....	23	1997
Richter, Paul, New York, N. Y. Frame for stretching and drying window-shades	278,184	May 22	2042	561	23	1997
Richter, Paul, Potsdam, Prussia, Germany. Device for lighting petroleum or gas lamps	282,227	July 31	2398	660	24	439
Richter, Paul, assignor to W. Reckersdres, Philadelphia, Pa. Confectionery	279,812	June 19	1473	413	23	2389
Richter, Rudolph. (See Eberley and Richter.)						
Rickards, Harry B. (See Rickards, William, assignor.)						
Rickards, William, assignor to H. B. Rickards, Franklin, Pa. Necktie-holder	274,827	Mar. 27	2026	564	23	1907
Rickel, Tremont W., assignor of one-half to G. Isenhart, Casey, Iowa. Combined match-lighter and cigar-cutter	281,298	July 17	1196	351	24	225
Rickel, Tremont W., and G. A. Carpenter, Carey, Iowa; said Rickel assignor to said Carpenter. Combined stove-pipe damper and cleaner	287,964	Nov. 6	222	63	25	546
Ricker, George F., Cambridgeport, Mass. Carpet-beating machine	274,224	Mar. 20	1261	348	23	1067
Ricker, Reuben H., Boston, Mass. Mechanical toy	271,273	Jan. 30	1783	518	23	362
Ricker, Thomas W., Boston, Mass. Fire-escape	279,186	June 12	723	197, 198	23	2257
Ricker, Wentworth G., Rochester, N. Y. Hay-carrier	284,903	Sept. 11	906	256	24	1066
Rickerson, Sherman B., Grand Rapids, Mich. Roller-mill	278,272	May 22	2161	594	23	2017
Rickerson, Sherman B., Grand Rapids, Mich. Roller-mill	278,273	May 22	2162	594, 595	23	2017
Rickerson, Sherman B., Grand Rapids, Mich. Roller-mill	278,274	May 22	2163	595, 596	23	2017
Rickerson, Sherman B., Coopersville, assignor to O. E. Brown Manufacturing Company, Grand Rapids, Mich. Roller-mill	271,518	Jan. 30	2109	607	23	420
Ricketts, Joel R., Strafford, Mo. Device for converting motion	277,345	May 8	1035	278	23	1811
Ricketts, Palmer C., Troy, N. Y. Railway-car electrical-circuit coupler	281,730	July 24	1755	476	24	323
Rickey, Joseph, Kankakee, Ill. Sulky-plow	276,193	Apr. 24	1701	470	23	1542
Rickman, James P., and J. B. Thompson, New Cross, county of Kent, England. Manufacture of ammonia and its salts	278,823	June 5	199	58	23	2157
Riddel, Jacob. (See Landis and Riddel.)						
Ridenour, John, Mount Vernon, Ind. Straw-carrier	278,457	May 29	2424	660	23	2072
Rider, Ignatius G., W. H. Snyder, and A. O. Frick, Waynesborough, Pa. Traction-engine	277,784	May 15	1553	423	23	1907
Ridge, Joseph, Chicago, Ill. Noiseless slate	278,744	June 5	86	25	23	2138
Ridge, Thomas D. (See Patee and Ridge.)						
Ridgway, Charles L., assignor of one-half to L. L. Rowe, Boston, Mass. Heating-stove	281,795	July 24	1844	504	24	340
Ridgway, Francelia W., administratrix. (See Ridgway, Job H.)						
Ridgway, Job H., deceased, Philadelphia, Pa., F. W. Ridgway, administratrix. Refrigerating-chamber for railway-cars, &c	270,126	Jan. 2	348	101, 102	23	71
Ridgway, Thomas S., *et al.* (See Griest, John M., assignor.)						
Ridgway, William H., Coatesville, Pa. Elevator	276,076	Apr. 17	1549	427	23	1508
Ridgway, William H., Coatesville, Pa. Railway coaling-station	276,077	Apr. 17	1550	428	23	1508
Ridout, Moses T., Lakeside, Minn. Harvester	279,106	June 5	619	169, 170	23	2228
Rieger, John L., Sandusky, Ohio. Awning	272,772	Feb. 20	1499	422	23	718
Riegler, Alexander, Cincinnati, Ohio. Check-valve	277,509	May 15	1230	331	23	1850
Riegler, Alexander, Cincinnati, Ohio. Combined steam-boiler and crucible-furnace	280,954	July 10	766	212	24	140
Riegler, Alexander, Cincinnati, Ohio. Combined metallurgical furnace and water-heater	280,955	July 10	767	212	24	140
Riehl, Justus. (See Good, Robert J., assignor.)						
Riemer, Friedrick. (See Miller and Riemer.)						
Rieppel, John, Renovo, Pa. Drilling machine	280,956	July 10	767	213	24	141
Ries, Elias E., Brooklyn, N. Y. Automatic alarm device for railway-crossings	282,776	Aug. 7	363	103	24	564
Ries, Elias E., New York, N. Y. Suspension-hook for boots and shoes	283,418	Aug. 21	1146	324	24	720
Riesenberg, Frank W. (See Hatch and Riesenberg.)						
Rigby, Joseph, and S. S. McHugh, Ottawa, Kans. Car-coupling	286,848	Oct. 16	1347	369	25	259
Rigby, Nicholas L., Topeka, Kans, assignor of one-half to J. D. Pryor. Churn and butter-worker	274,383	Mar. 20	1463	401	23	1102
Rigdon, Isaac, Cincinnati, Ohio. Scale-beam	271,274	Jan. 30	1784	518	23	362
Rigg, James W., Mount Carmel Precinct, Ill. Fence	286,487	Oct. 9	880	238	25	170
Riggin, William M., assignor of one-half to T. B. Jones, Madisonville, Ky. Lifting-jack	276,471	Apr. 24	2056	571	23	1602
Righter, Edmund K., Oswego, N. Y. Car-wheel	289,142	Nov. 27	1688	469	25	826
Rigney, John T., Baltimore, Md. Railway-switch	275,711	Apr. 10	1097	300	23	1422
Rigny, Alfred, New York, N. Y. Bottling-faucet	288,859	Nov. 20	1342	369	25	756

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Rigny, Alfred, New York, N. Y. Bottling device	289,714	Dec. 4	435	122	25	962
Ribl, John A., Philadelphia, Pa. Saw-filing machine	290,357	Dec. 18	1224	344	25	1118
Rikard, Henry C., Monroeville, Ala. Cultivator	284,062	Aug. 28	1948	544	24	675
Rikeman, Walter F., Cambridge, Mass. Composition for covering piano-keys, &c	271,120	Jan. 23	1595	459	23	322
Riker, Carroll L., Brooklyn, N. Y. Combined boiler and steam vacuum-pump	287,579	Oct. 30	2289	619	25	445
Riker, Samuel T., Port Chester, N. Y. Bolt and nut package	282,370	July 31	2579	708	24	470
Rile, John L., Brooklyn, assignor to A. L. Shipman, New York, N. Y. Machine for gumming paper	284,236	Sept. 4	102	28	24	921
Riley, Frederic G., London, England. Corking-machine	279,813	June 19	1473	413, 414	23	2389
Riley, James, New York, N. Y. Fire-escape ladder	276,715	May 1	239	60	23	1665
Riley, John A., and C. S. Freer, New York, N. Y. Ear-ring, bracelet, &c	271,121	Jan. 23	1596	459	23	322
Riley, John A., and C. S. Freer, New York, N. Y. Ear-ring	271,122	Jan. 23	1597	459	23	322
Riley, John M., Newark, N. J. Journal-box for grinding and polishing lathes	271,519	Jan. 30	2110	607	23	420
Riley, John M., Newark, N. J. Fastening for dog-collars	277,785	May 15	1556	423	23	1907
Riley, Phillip, Sr., assignor of one-half to P. Disbrow, Marion, Iowa. Fence-post	272,157	Feb. 13	712	195	23	575
Riley, William, assignor to himself and P. H. Gillen, New York, N. Y. Tobacco-box	275,944	Apr. 17	1395	384	23	1481
Rinderknecht, Charles, assignor of one-half to A. J. Malone, Indianapolis, Ind. Automatic grain-shovel mechanism	270,485	Jan. 9	705	232	23	165
Rindsberg, Joseph, Richmond, Va. Show-box for hats	290,475	Dec. 18	1391	384	25	1147
Rinehart, Thomas M., assignor to himself, F. Winter, and A. Goodwin, Pittsburg, Pa. Rotary engine	280,766	July 3	530	149	24	94
Rinehart, William D., Chicago, Ill. Device for operating shovels by power	284,485	Sept. 4	394	110, 111	24	971
Rines, William E., Arlington, Mass. Sash-fastener	280,400	July 3	75	20	24	16
Ring, Aaron, Malden, Mass. Lamp filler and indicator	279,278	June 12	824	228	23	2274
Ring, Johann, Milwaukee, Wis. Plow	277,786	May 15	1557	424	23	1907
Ring, John H., and J. A. Bradshaw, assignors of part interest to C. Callahan, J. H. Morrison, and J. H. Pindor, Lowell, Mass. Machine for making metallic cartridge-shells	286,151	Oct. 2	453	123	25	84
Ringen, John, St. Louis, Mo. Washer	271,275	Jan. 30	1786	.....	23	362
Ringo, Alvin L., Chicago, Ill. Court file-case	274,384	Mar. 20	1464	401	23	1102
Rinkleff, Frank. (See Kromer and Rinkleff.)						
Rinman, Gustave O., Cincinnati, Ohio. Process of and apparatus for separating ammonia from its solution in the manufacture of ice, &c	287,056	Oct. 23	1617	445	25	312
Rintelman, August, assignor of one-half to S. S. Stout and H. G. Underwood, Milwaukee, Wis. Folding stool	282,371	July 31	2580	708	24	470
Riotte, Eugene N., New York, N. Y. Obtaining precious metals from ores by amalgamation	289,781	Dec. 4	506	140	25	974
Ripczinski, Joseph, and C. Tisch, Jr., Wausau, Wis. Fire-escape	280,957	July 10	768	213	24	141
Ripley, Daniel C. (See Brockunier and Ripley.)						
Ripley, Daniel C., Pittsburg, Pa. Glass caster-stand and mold	272,745	June 5	80	25	23	2139
Ripley, Daniel C., Pittsburg, Pa. Manufacture of glass signal-globes	272,746	June 5	87	25	23	2139
Ripley, Daniel C., Pittsburg, Pa. Glass caster stand and mold. (Reissue)	10,397	Oct. 23	2052	558	25	391
Ripley, Daniel C., Pittsburg, Pa. Glass caster	289,027	Nov. 27	1554	428	25	802
Ripley, George. (See Pearson, Henry F. C., assignor.)						
Ripley, George H. (See Pendleton, John H., assignor.)						
Ripley, Paschal P., West Randolph, Vt. Fire-escape	279,814	June 19	1476	414	23	2390
Ripley, William T., Rutland, Vt. Automatic sand and water feeding device for stone-sawing machines	286,071	Oct. 2	359	100	25	66
Rippien, Adolph, assignor to W. M. Griscom, M. and W. Harbster, Reading, Pa. Apple-parer	270,845	Jan. 16	1258	362	23	261
Rippien, Adolph, assignor to W. M. Griscom, M. and W. Harbster, Reading, Pa. Apple-parer	281,559	July 17	1521	417	24	279
Rische, August, *et al.* (See Weller, Wanee, and Roesch, assignors.)						
Risdon, William B., Trenton, N. J., assignor to American Saw Company, New York, N. Y. Insertible saw-tooth	289,715	Dec. 4	436	122	25	962
Rishel, George P., Hornellsville, N. Y. Vulcanizing and celluloid apparatus	287,723	Oct. 30	2478	668	25	481
Rishel, W. H. (See Stoody, Jacob, assignor.)						
Risley, Caleb M., assignor of one-half to J. A. Green, Woodbury, N. J. Railway-signal	283,281	Aug. 14	971	271	24	680
Rison, John L. (See White, Addison, assignor.)						
Rison, Mastin L., Clarksville, Tenn. Motor	287,777	Oct. 30	2557	688	25	495
Rissey, John, and W. J. Horton, Halifax, Nova Scotia, Canada. Horse-detacher	288,365	Nov. 13	731	198, 199	25	642
Ritch, Milton M., Laurinburg, N. C. Plow	270,846	Jan. 16	1259	362	23	261
Ritchel, Charles F., Bridgeport, Conn., assignor to S. S. & G. D. Tallman, New York, N. Y. Toy jumping animal	280,330	June 26	2112	592	23	2506
Ritchel, Charles F., Bridgeport, Conn., assignor to Unexcelled Fireworks Company, New York, N. Y. Toy animal	289,562	Dec. 4	238	67	25	998
Ritchie, Edward S., Brookline, Mass. Reflector for street-lamps	270,339	Jan. 9	610	179	23	129
Ritchie, James, Detroit, Mich. Smoke-stack	276,716	May 1	240	61	23	1666
Ritchie, James, assignor to himself and W. H. D. Newth, Detroit, Mich. Grate-bar	272,773	Feb. 20	1499	422	23	718
Ritchie, John, assignor to J. N. Manning and G. Mehring, Chicago, Ill. Smoke-burning furnace	271,989	Feb. 6	498	134	23	596
Ritchie, Matthew L., New York, N. Y. Die or swage	279,020	June 5	497	135	23	2206
Riter, John L. (See Remington and Riter.)						
Riter, John L., Brownsville, Ind. Seeding-machine	274,518	Mar. 27	1668	463	23	1143
Rittenhouse, Nicholas M., Baltimore, Md. Telegraph-cable	272,774	Feb. 20	1500	422	23	718
Rittenhouse, Nicholas M., and M. W. Locke, Baltimore, Md. Underground-telegraph line	276,472	Apr. 24	2056	571	23	1603
Ritter, Andrew, Jr., assignor of two-thirds to A. F. Noble and J. C. Pollock, Chicago, Ill. Steam-boiler furnace	290,270	Dec. 18	1114	313	25	1099
Ritter, Henry M., Covington, Ky. Caster	282,777	Aug. 7	364	103	24	564
Ritter, Isaac R. (See Bernhart and Ritter.)						
Rittig, Joseph, Camden, N. J. Galvanic belt	276,078	Apr. 17	1552	428	23	1509
Rittweger, John F., Johnstown, Pa. Recuperator gas-furnace	289,308	Nov. 27	1884	525	25	864
Ritty, James, and J. Birch, Dayton, assignors to J. H. Eckert, Cincinnati, Ohio. Cash register and indicator	271,363	Jan. 30	1911	553	23	385
Ritzert, Henry, *et al.* (See Muller, Antone, assignor.)						
Ritzmann, William, Bridgeport, Conn. Corset	273,393	Mar. 6	201	54	23	868
Rivera, James B., Baltimore, Md. Confection-grinding apparatus	288,860	Nov. 20	1343	369	25	757
Rivers, Thomas L. (See Wallace, William R., assignor.)						
Rivers, Thomas L., assignor of one-third to E. M. Shepherd, Mount Vernon, Ill. Hinge	276,540	Apr. 24	2142	596	23	1617
Rix, Benjamin F., assignor of one-third to M. H. Kipp. Kalamazoo, Mich. Harrow	287,965	Nov. 6	223	63	25	546
Rix, Edward A. (See Olsen, Gustav, assignor.)						
Rix, Edward A., San Francisco, Cal. Horse-power	271,123	Jan. 23	1599	459, 460	23	325
Rix, Hale, San Francisco, Cal. Sinker for fishing-tackle	285,075	Sept. 18	1131	316	24	1115

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Roach, John, San Francisco, Cal. Plummet-lamp	287,580	Oct. 30	2293	620	25	446
Roach, Samuel M., Savannah, Ga. Artificial tooth-crown	288,492	Nov. 13	894	243	25	671
Roat, Edwin, assignor of one-half to H. Hamlin, Buffalo, N. Y. Feed-drier	275,858	Apr. 17	1297	357	23	1463
Robb, David W., Amherst, Nova Scotia, Canada. Heating-furnace	270,127	Jan. 2	352	102	23	72
Robb, James A., San José, Cal. Feed mechanism for lath-sawing machines	288,493	Nov. 13	894	243	25	671
Robb, James A., San Francisco, Cal. Edger	290,358	Dec. 18	1225	344 345	25	1118
Robb, William. (See Lieberman and Robb.)						
Robbins & Appleton. (See Fitch, Ezra C., assignor.)						
Robbins & Appleton. (See Searing, James E., assignor.)						
Robbins, C. H., *et al.* (See Coram, John C., assignor.)						
Robbins, Edwin A., Boston, Mass. Cuff-holder	277,612	May 15	1357	365	23	1870
Robbins, Eugene H., Pittsfield, Mass. Pipe-wrench	282,372	July 31	2581	708	24	470
Robbins, Fabius, assignor of two-thirds to T. F. Jones and F. Playter, Walnut, Kans. Nut-lock	282,927	Aug. 7	533	151	24	595
Robbins, Frederic. (See Talcott, Albert L., assignor.)						
Robbins, John A. (See Weathers, James, assignor.)						
Robbins, Moses M., Centreville, Ind. Coffee and peanut roasting attachment for stoves	274,225	Mar. 20	1263	348	23	1067
Robbins, Nathaniel, 2d, West Harwich, Mass. Artificial tooth	279,187	June 12	723	198	23	2257
Robbins, Sylvan B., Lawrenceburg, Ind. Harvester-rake	271,124	Jan. 23	1600	460	23	323
Robbins, Sylvan B., Lawrenceburg, Ind. Harvester-reel	271,125	Jan. 23	1601	460	23	323
Robbins, Sylvan B., Lawrenceburg, Ind. Grain-binder for harvesters	271,126	Jan. 23	1602	460 461	23	323
Robbins, Sylvan B., Lawrenceburg, Ind. Cutter-bar for harvesters	271,127	Jan. 23	1604	461	23	323
Robbins, William O., New York, N. Y. Ejector for wells	277,346	May 8	1036	278	23	1811
Roberge, David, New York, N. Y. Toe-weight	279,667	June 19	1314	365	23	2361
Roberts, Benjamin F., Leon, Iowa. Adjustable and portable shelving	277,510	May 15	1231	332	23	1850
Roberts, Benjamin F., assignor of one-half to J. A. Ray and H. Thomas, Leon, Iowa. Tire-tightener	273,608	Mar. 6	473	127	23	915
Roberts, Charles, *et al.* (See Leake, Lewis C., assignor.)						
Roberts, Charles E., assignor to Crane Brothers Manufacturing Company, Chicago, Ill. Machine for threading bung-bushes	277,160	May 8	823	217 218	23	1773
Roberts, Charles H., and C. J. Stevens, Montour, Iowa. Spring-caster	281,299	July 17	1199	331	24	226
Roberts, Charles H. J., Florence, Ala. Pea-separator	282,373	July 31	2562	709	24	470
Roberts, Cyrus. (See Roberts and Schafer, assignors.)						
Roberts, Cyrus, Three Rivers, Mich. Combined corn husker, sheller, and separator	278,824	June 5	201	58, 59	23	2157
Roberts, David S., Boston, Mass. Oil-feeder	272,980	Feb. 27	1774	496	23	771
Roberts, Dick. R., New Madison, Ohio. Lifting-jack	286,488	Oct. 9	881	239	25	171
Roberts, Edward C., Broadford, Va. Furniture-drawer	288,861	Nov. 20	1344	369	25	757
Roberts, Fabian J., assignor of one-fourth to H. A. Weber, Detroit, Mich. Car-axle box	289,934	Dec. 11	698	196	25	1015
Roberts, George A., and C. Schafer, assignors to C. Roberts, Three Rivers, Mich. Thrashing-machine	277,347	May 8	1037	278	23	1811
Roberts, George S., assignor to J. A. Lang, Meredith Village, N. H. Plow-jointer	287,778	Oct. 30	2558	688	25	495
Roberts, Henry. (See Crich, Fredrick, assignor.)						
Roberts, Henry, Hartford, Conn. Apparatus for stretching woven-wire fabrics upon mattress-frames	274,142	Mar. 20	1153	318	23	1047
Roberts, Henry, Hartford, Conn. Bed-bottom	275,523	Apr. 10	865	234	23	1382
Roberts, Henry, Hartford, Conn. Woven-wire seat	276,881	May 1	447	120	23	1705
Roberts, Henry, Hartford, Conn. Woven-wire seat	279,598	June 19	1233	342	23	2347
Roberts, Henry, Pittsburg, Pa. Wiping metal-coated wire	275,520	Apr. 10	860	232 233	23	1381
Roberts, Henry, Pittsburg, Pa. Apparatus for feeding wire to metal-coating baths	275,521	Apr. 10	862	233	23	1381
Roberts, Henry, Pittsburg, Pa. Annealing-pot for annealing wire	275,522	Apr. 10	864	233	23	1382
Roberts, Henry, Pittsburg, Pa. Dynamo-electric machine	276,194	Apr. 24	1703	470	23	1542
Roberts, Henry, Pittsburg, Pa. Wire-reel	286,639	Oct. 16	1081	291	25	212
Roberts, Henry, and F. Crich, Pittsburg, Pa. Compound for wiping wire	275,415	Apr. 10	723	.....	23	1359
Roberts, Henry P., Jamestown, assignor of one-half to C. M. Chamberlain, Seneca Falls, N. Y. Combined rocking-chair and fan	278,047	May 22	1871	512	23	1967
Roberts, Homer J., Orland, Ind. Vehicle-tongue	278,275	May 22	2164	596	23	2017
Roberts, Irving H. (See Plummer, Abner A., assignor.)						
Roberts, Isaiah L., Jacksonville, Fla. Extracting metals	284,063	Aug. 28	1948	544	24	875
Roberts, James D., Boston, Mass. Bottle-filling apparatus	279,668	June 19	1315	365	23	2362
Roberts, Joab S., Boulder Valley, Mont. Ter. Sled-shoe	275,945	Apr. 17	1395	384	23	1481
Roberts, Job M., Pana, Ill. Check-rower for corn-planters	283,817	Aug. 28	1635	460	24	820
Roberts, John G., Idaho Springs, Colo. Ore-washer	285,307	Sept. 18	1402	396	24	1161
Roberts, John H., *et al.* (See Cameron, James W., assignor.)						
Roberts, John H., Providence, R. I. Candy-cooler	289,859	Dec. 11	611	170	25	1000
Roberts, John J., Shongelo, Miss. Car-coupling	271,990	Feb. 6	498	134	23	526
Roberts, John J., Reading, Pa. Rolling-mill	276,629	May 1	106	28	23	1645
Roberts, Leonidas A., Monticello, Ga. Belt-fastener	286,072	Oct. 2	362	100	25	66
Roberts, Levi H., Paris, Ill. Car-axle and box	278,048	May 22	1872	512	23	1968
Roberts, Milton O., Worcester, Pa. Milk-cooler	273,764	Mar. 13	685	184	23	959
Roberts, Robert, New York, N. Y. Boat-detaching apparatus	288,862	Nov. 20	1345	369	25	757
Roberts, Robert R., New Orleans, La., assignor one-half to M. J. Wine, Washington, D. C. Treating vegetable matter	279,435	June 12	1038	287 288	23	2308
Roberts, Russell W., *et al.* (See Williams, William, assignor.)						
Roberts, Thomas H., Port Huron, Mich. Tube-welding machine	284,329	Sept. 4	211	58	24	940
Roberts, William, Canton, Mass. Knitting-machine	284,673	Sept. 11	630	178 179	24	1017
Roberts, William H., *et al.* (See Evans, Thomas, assignor.)						
Roberts, William H., Davenport Centre, N. Y. Butter-package	276,882	May 1	448	120	23	1705
Roberts, William H., Davenport Centre, N. Y. Fastening for butter-packages	286,073	Oct. 2	363	100	25	66
Roberts, William S., Bolivar, N. Y. Barbed fence	276,883	May 1	449	120	23	1705
Robertshaw, James. (See Furness and Robertshaw.)						
Robertson, Alexander W., Westham, county of Essex, England. Surface-condenser	281,927	July 24	2005	549	24	368
Robertson, Archibald J. (See Simonds, Gustavus B., assignor.)						
Robertson, C. F. (See Patton, William P., assignor.)						
Robertson, Fred Y. (See Vance, William W., assignor.)						
Robertson, George F., Taylorsville, Ky. Station-indicator	279,436	June 12	1039	288	23	2308
Robertson, James. (See Wrigley and Robertson.)						
Robertson, James D., Salisbury, Mass. Spring shackle-link	290,271	Dec. 18	1116	314	25	1099
Robertson, James H., New York, N. Y. Electric telephone	276,630	May 1	107	29	23	1645
Robertson, James H., Brooklyn, N. Y. Electric telephone	276,631	May 1	109	29	23	1646
Robertson, James H., Brooklyn, N. Y. Electric-telephone transmitter	276,632	May 1	110	29	23	1646

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Robertson, James H., Brooklyn, N. Y. Speaking-telephone	289,309	Nov. 27	1885	525	25	864
Robertson, John, Pottsville, Pa. Extract of meat	283,147	Aug. 14	801	.....	24	649
Robertson, John, Brooklyn, assignor to Rothe & Lips, New York, N. Y. Apparatus for covering telegraph-cables	275,859	Apr. 17	1299	357	23	1463
Robertson, John H., New York, N. Y. Traction-rope railway	289,563	Dec. 4	239	68	25	928
Robertson, John R., Selma, Ala. Grate	290,476	Dec. 18	1392	385	25	1147
Robertson, Nathaniel, and H. C. Doll, Denver, Colo. Combined whip and rein holder	285,161	Sept. 18	1239	348	24	1130
Robertson, Richard L., and O. S. Burdett, New Orleans, La. Car-truck	270,985	Jan. 23	1438	415	23	296
Robertson, Richard L., Jr., New Orleans, La. Awning for decks of vessels	273,315	Mar. 6	95	28	23	850
Robertson, Robert D., Columbia, Tenn. Hymn and music book	286,152	Oct. 2	455	124	25	85
Robertson, William A. (See McMillan and Robertson.)						
Robertson, William B., Jr., San Francisco, Cal. Process of and apparatus for obtaining boracic acid from borates	274,660	Mar. 27	1832	509	23	1173
Robertson, William H. (See Holt, Gardner L., assignor.)						
Robeson, Daniel S., *et al.* (See Egan, Charles, assignor.)						
Robie, Henry W., Portsmouth, and W. H. Lyons, Berkley, Va. Utilizing the exhaust of steam-pumps	286,074	Oct. 2	363	101	25	67
Robinet, Jules, Suippes, France. Irrigating apparatus	289,448	Dec. 4	90	26	25	902
Robinins, Francis. (See Ingersoll, Monroe, assignor.)						
Robinson, Abel W., assignor to himself and T. B. Rhodes, Anna, Ill. Car-coupling	280,516	July 3	218	58	24	39
Robinson, Alba R. P., North Walpole, N. H. Rotary egg-preserver	271,658	Feb. 6	88	24	23	455
Robinson, Albert S., assignor to A. M. Robinson, Albany, N. Y. Device for securing legs to tables	280,401	July 3	76	21	24	16
Robinson, Alfred. (See Kent, Alexander W., assignor.)						
Robinson, Alfred S., assignor to Wilmington Dental Manufacturing Company, Wilmington, Del. Sample-card of artificial teeth	290,933	Dec. 25	1989	549	25	1258
Robinson, Almon, Lewiston, Mo. Heating-case for fruit-jars	277,944	May 22	1743	475	23	1945
Robinson, Anna M. (See Robinson, Albert S., assignor.)						
Robinson, Benjamin F., New York, N.Y. Holding ring and frame for embroidering-machines	274,034	Mar. 13	1007	276	23	1014
Robinson, Charles K., assignor to L. and N. L. Hotchkiss, Lyons, N. Y. Vehicle-reach	271,520	Jan. 30	2111	607	22	420
Robinson, Cheaels L., San Francisco, Cal. Remedy for ague	275,524	Apr. 10	866	.....	23	1382
Robinson, Clark. (See Parker and Robinson.)						
Robinson, Clark, Eau Claire, Wis. Extension-table	270,128	Jan. 2	353	102 103	23	72
Robinson, D. F. (See Jackson, Charles A., assignor.)						
Robinson, Edgar. (See Dean, Charles W., assignor.)						
Robinson, Edgar, Cincinnati, Ohio. Coffee pot or urn	276,473	Apr. 24	2058	571	23	1603
Robinson, Emri. (See Arthur, Joseph A., assignor.)						
Robinson, Francis W. (See Sherry and Robinson.)						
Robinson, Frank, *et al.* (See Schreiber, Charles W., assignor.)						
Robinson, George E., *et al.* (See Arend, John J., assignor.)						
Robinson, George H., *et al.* (See Miller, James, assignor.)						
Robinson, George H., *et al.* (See Reynolds, George H., assignor.)						
Robinson, Henry A., Foxcroft, Me. Metallized rubber compound	284,760	Sept. 11	744	.....	24	1036
Robinson, James R., Cambridge, Mass. Safety-seam for steam-boilers	282,120	July 31	2263	620	24	416
Robinson, Job, Baldwin City, Kans. Gate	282,374	July 31	2583	709	24	471
Robinson, Joel, La Grande, Oreg. Foot-warmer	271,364	Jan. 30	1914	553	23	385
Robinson, John, Ottumwa, Iowa. Vehicle-seat	283,922	Aug. 28	1754	495	24	841
Robinson, John A. (See Dimock and Robinson.)						
Robinson, John T., Hyde Park, Mass. Machine for cutting paper-board	273,394	Mar. 6	903	55	23	868
Robinson, Macedon J., deceased, M. E. Robinson, Waldo, Fla., administratrix. Device for fitting stove-pipes	278,599	May 29	2584	705	23	2100
Robinson, Martha E., administratrix. (See Robinson, Macedon J.)						
Robinson, Orton H., Manistee, Mich. Rotary engine	281,796	July 24	1846	505	24	340
Robinson, Randolph O., Glidden, Iowa. Carpet-stretcher	283,818	Aug. 28	1636	461	24	820
Robinson, Richard F., Richmond, Va. Brick	285,308	Sept. 18	1404	397	24	1161
Robinson, Robert, Brooklyn, N. Y. Faucet	274,385	Mar. 20	1465	402	23	1102
Robinson, Sarah C., Chicago, Ill. Doll	283,513	Aug. 21	1264	354	24	740
Robinson, Thomas C., Boston, Mass. Trimming attachment for sewing-machines	286,153	Oct. 2	456	124	25	85
Robinson, Thomas C., Boston, assignor to himself and E. B. Welch, Cambridge, Mass. Trimming attachment for sewing-machines	277,787	May 15	1557	424	23	1907
Robinson, Thomas C., Boston, assignor to himself and E. B. Welch, Cambridge, Mass. Trimming attachment for sewing-machines	278,825	June 5	903	59	23	2158
Robinson, Thomas C., Boston, assignor to himself and E. B. Welch, Cambridge, Mass. Trimming mechanism for sewing-machines	286,164	Oct. 2	467	128 129	25	87
Robinson, William. (See Briggs and Robinson.)						
Robinson, William, Chicago, Ill. Crystallizing grape-sugar	270,699	Jan. 16	1085	.....	23	227
Robinson, William, Boston, Mass. Pedicycle	278,185	May 22	2044	562	23	1997
Robinson, William A., Nankin, assignor to Nichols, Shepard & Company, Battle Creek, Mich. Grain-separator for thrashing-machines	274,386	Mar. 20	1466	402	23	1102
Robinson, William B. (See Gamgee, Sampson, assignor.)						
Robinson, William J., Boston, Mass. Machine for ornamenting wood	283,664	Aug. 21	1431	401	24	772
Robinson, William M., Petersburg, Va. Yarn-tension device for ring-spinning frames	283,663	Aug. 21	1429	400	24	772
Robison, Charles H., Chicago, Ill. Apparatus for rendering fats	287,862	Nov. 6	84	25	25	522
Robison, Joseph A., New Washington, Ind. Treadle	283,514	Aug. 21	1265	354	24	740
Robson, James, Birmingham, county of Warwick, England. Gas-engine	278,600	May 29	2585	706	23	2100
Robson, Robert S., Cambridgeport, Mass. Machine for cutting printers' rules	271,204	Jan. 23	1700	491	23	339
Robson, Robert S., Cambridgeport, assignor, by mesne assignments, to himself and J. Loughrey, East Cambridge, Mass. Dating-stamp	279,815	June 19	1477	414	23	2390
Roby, Luther A., and S. T. Wellman, Cleveland, Ohio. Car-wheel	284,330	Sept. 4	211	59	24	940
Rochat, Ernest. (See Horne, George W., assignor.)						
Rochat, François. (See Crepin and Rochat.)						
Roche, Edward P., Bath, Me. Chafe-iron for vehicles	279,816	June 19	1478	415	23	2390
Roche, James, assignor to Eagle Lock Company, Terryville, Conn. Lock	280,517	July 3	219	58	24	39
Rochette, Cleophas, St. Sauveur, Quebec, Canada. Forming heel-stiffeners for boots or shoes	276,717	May 1	241	61	23	1666
Rochford, William H. (See Winghart and Rochford.)						
Rochow, Ferdinand, Brooklyn, N. Y. Balanced slide-valve	270,986	Jan. 23	1439	415	23	296
Rock, Frederick, assignor of one-half to W. F. Hitchcock, Homer, N. Y. Reversing-gear for steam-engines	273,609	Mar. 6	474	128	23	915
Rockafellow, John W., Stockton, and P. T. B. Nevius; said Nevius assignor to G. Nevius, Flemington, N. J. Combined fruit-basket and cover	280,517	July 3	219	58	24	39
Rockey, Richard M., Nora, Ill. Top for milk-cans	284,064	Aug. 28	1950	544	24	875
Rockfellow, Andrews, assignor of one-half to A. H. Curtiss, Eden, N. Y. Can-filling apparatus	277,613	May 15	1357	366	23	1870
	287,725	Oct. 30	2480	669	25	481

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
ll, Frank L., Chicago, Ill. Double faucet	284,237	Sept. 4	104	28, 29	24	922
ll, George M., Woonsocket, R. I. Dress form or stand. (Reissue)	10,334	May 29	2683	735	23	2117
ll, George M., Woonsocket, R. I. Dress form or stand	272,479	Feb. 20	1129	317	23	652
ll, Lucius A. (See Fowler and Rockwell.)						
ll, Thomas H. (See Spielman, William, assignor.)						
Georges, Liege, Belgium. Treating phosphatic slags for manure, &c	284,674	Sept. 11	634	.....	24	1017
, William H., Toronto, Ontario, Canada. Stile for wire fences	286,226	Oct. 9	542	149	25	110
Andrew, *et al.* (See Vincent, John, Jr., assignor.)						
ugh, Charles D., Winslow, Ill. Spring-bed	279,188	June 12	724	198	23	2257
our, Peter, Quincy, Ill. Corn-planter	286,557	Oct. 9	971	261	25	186
s, Alexander. (See Mee, Gilbert, assignor.)						
s, James L. (See Hartley and Rodgers.)						
s, John, San Francisco, Cal. Invalid-settee	283,515	Aug. 21	1266	354	24	740
s, Ranzil H., Dallas, Tex. Awning-bracket	283,023	Aug. 14	658	186	24	624
s, Willis H. (See Morris and Rodgers.)						
s, James A., Lebanon, Tex. Hollow auger	286,964	Oct. 16	1492	410	25	283
s, John B., and J. D. Bingham, Fort Leavenworth, Kans. Argand candle	284,496	Sept. 4	396	111	24	971
s, William R., New Burnside, Ill. Glass-cutting frame	270,847	Jan. 16	1260	363	23	261
, Cæsar A., Wilmington, Del. Composite washer	271,365	Jan. 30	1915	553	23	385
illiam L. (See Short and Roe.)						
g, Washington A., Brooklyn, N. Y. Rope-driving machinery	270,129	Jan. 2	354	103	23	72
Ferdinand, Frankfort-on-the-Main, Germany. Frame for portable looking-glasses	270,130	Jan. 2	355	104	23	72
Carl, assignor of one-half to C. F. Kleuze, Davenport, Iowa. Adjustable hame	285,844	Oct. 2	76	23	25	16
Carl, assignor of one-half to C. F. Kleuze, Davenport, Iowa. Hame	289,028	Nov. 27	1554	429	25	802
Anthony, Philadelphia, Pa. Car-blind	275,712	Apr. 10	1098	300	23	1422
Anthony, Philadelphia, Pa. Toy	292,778	Aug. 7	365	103	24	564
, Nicholas, Quincy, Ill. Printers's galley	287,581	Oct. 30	2294	620	25	446
, William, Newark, N. J. Catch for bag-frames, &c	272,902	Feb. 27	1688	472	23	757
George. (See Weller, Wanee, and Roesch.)						
George R. (See Weller and Roesch.)						
, Bernhard, Friedrichshutte, Upper Silesia, Germany. Cupelling-furnace	289,143	Nov. 27	1689	469	25	896
Daniel H., assignor of three-fourths to F. Lillibridge, Cedar Rapids, Iowa. Sewing machine	284,065	Aug. 28	1951	544, 545	24	876
David S., Burnet, Tex. Cotton-gin	290,092	June 26	1815	511	23	2456
Amos. (See Stearns, Oscar S., assignor.)						
Arthur, Barnesville, Ohio. Post-hole digger	283,282	Aug. 14	973	271	24	681
& Bros., C. (See Donovan, George L., assignor.)						
& Bros., C. (See Rogers, Gilbert, assignor.)						
Charles D., Providence, R. I. Making barbed fence-wire	290,272	Dec. 18	1117	314	25	1099
Charles L., and G. W. Wolf, Baltimore, Md. Milk-bucket	287,726	Oct. 30	2482	669	25	482
Charles W., Baltimore, Md. Machine for rounding leather	283,024	Aug. 14	659	186	24	625
Davenport, Galion, Ohio. Self heating and separating still	284,331	Sept. 4	212	59	24	940
Davenport, Galion, Ohio. Process of and apparatus for reducing the gravity of petroleum-oil	284,332	Sept. 4	214	59, 60	24	940
David C., Greenfield, Mass. Mitering-machine	272,903	Feb. 27	1689	473	23	757
Edwin, Brookline, Mass. Fire-alarm telegraph	285,076	Sept. 18	1132	316	24	1112
Ethan, Cohoes, N. Y. Machine for making axes	275,273	Apr. 3	497	137, 138	23	1311
Gilbert, assignor to C. Rogers & Bros., Meriden, Conn. Coffin-screw	277,348	May 8	1039	278	23	1812
Harrison, *et al.* (See Secor, William H., assignor.)						
Harry, New York, N. Y. Furnace-grate	283,419	Aug. 21	1148	324, 325	24	720
Hattie, Polo, Ill. Vegetable-grater	284,487	Sept. 4	397	111	24	971
Hiram D., New York, N. Y. Electric conductor	281,223	July 10	1098	303	24	201
Hugh, Washington, Ind. Revolving horse hay-rake	282,375	July 31	2584	709	24	471
J. Harris, Washington, D. C. Automatic telegraph	277,349	May 8	1039	279	23	1812
J. Harris, New York, N. Y. Telephone	281,560	July 17	1523	418	24	279
James H., assignor of one-half to F. Hume and L. G. Hine, Washington, D. C. Telephone transmitter and receiver	269,884	Jan. 2	70	21	23	16
James H., New York, N. Y., assignor to American Electro Gas Telephone Company of New Jersey. Sound-transmitting apparatus	287,169	Oct. 23	1758	482, 483	25	339
James H., Washington, D. C., assignor, by mesne assignments, to American Electric Telephone Company, of New Jersey. Apparatus for telephonic communication	288,366	Nov. 13	732	199	25	642
James W., New York, N. Y. Electric conductor	279,189	June 12	726	199	23	2257
James W., New York, N. Y. Electric conductor or cable	280,518	July 3	221	58, 59	24	40
James W., New York, N. Y. Automatic telegraph	283,665	Aug. 21	1433	401	24	773
John F. (See Wellman, Emilus A., assignor.)						
Joseph, Hanover Square, county of Middlesex, England. Lens for signal lamps and interns	282,376	July 31	2585	710	24	471
Lebbeus H. (See Shaw, William A., assignor.)						
Michael J., Cincinnati, Ohio, assignor to T. T. Haydock. Dash-board fastening	284,575	Sept. 4	508	142	24	989
Richard V., and J. M. Allen, Larkinsville, Ala. Rock-drill	274,035	Mar. 13	1008	276	23	1015
T. Mellon, assignor of one-half to S. P. M. Tasker, Philadelphia, Pa. Pulverizing-mill	276,145	Apr. 17	1641	452	23	1524
Warner, Cincinnati, Ohio. Shoe	284,066	Aug. 28	1953	545	24	876
Warren S., Westport, Conn. Button	280,767	July 3	531	149	24	94
Will. W., *et al.* (See Martin, John C., assignor.)						
William, Hartford, Conn. Salt-cellar	270,131	Jan. 2	356	104	23	73
William, and T. A. Maher, New Orleans, La. Ice-cream freezer	278,276	May 22	2165	596	23	2017
William H., Hartford, Conn. Heat-obstructing mixture	282,779	Aug. 7	366	103	24	564
William H. H., Brooklyn, N. Y. Paper box	272,327	Feb. 13	917	256	23	611
John, St. Louis, Mo. Riveting-machine	274,143	Mar. 20	1154	318	23	1047
Conrad H., Humboldt Park, Ill. Combined clutch and brake	278,601	May 29	2587	706	23	2100
illiam H., Crete, Ill. Box-cover	277,061	May 8	693	180	23	1751
Léon, Rambervillers, France. Bag-holder	290,114	Dec. 11	914	259, 260	25	1056
hristian, Hartford, Conn. Gas-engine	280,083	June 26	1816	511, 512	23	2456
harles, and J. Moenke, Hoboken, N. J. Dumping-car	277,350	May 8	1042	279, 280	23	1812
Henry, *et al.* (See Inglis, Charles A., assignor.)						
John B., Philadelphia, Pa. Combined crib, chair, and commode	276,633	May 1	110	29	23	1646
, Joseph B. (See Wright, Caleb, assignor.)						
, Joseph B., Philadelphia, Pa. Sheet-metal box	284,981	Sept. 11	1002	282	24	1084

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Roland, Albert C., and A. Harper, Albuquerque, N. Mex. Ter. Car-brake	274,144	Mar. 20	1155	318	23	1047
Rolfe, Albert H., Baldwinsville, Mass. Abrasive wheel	277,062	May 8	693	181	23	1751
Rolland, Jean B., Paris, France. Traveler for ring-spinning frames	275,946	Apr. 17	1396	385	23	1481
Rolland, Jean B. L., Jr. (See Coté, N. Joseph, assignor.)						
Rollins, Alpheus. (See Wildey and Rollins.)						
Rollins, Edward K., assignor to Hunt Brothers & Company, (limited,) Scranton, Pa. Miner's lamp	279,503	June 12	1115	308	23	2380
Rollins, Frank C., Weld, Me. Horseshoe	286,640	Oct. 16	1083	292	25	212
Rollins, John B. (See Glazier, George W., assignor.)						
Rollins, John O., Chico, Cal. Plow	273,316	Mar. 6	96	28	23	850
Rollins, Samuel G., Boston, Mass. Apparatus for roasting and amalgamating ores	290,802	Dec. 25	1826	504	25	1230
Rolph, Henry E. (See Bier and Rolph.)						
Rolston, Rosewell G. (See Linn, Samuel H., assignor.)						
Romack, John M., *et al.* (See Fry, John, assignor.)						
Romadka, Anthony V., Wauwatosa, Wis. Trunk-fastener	282,780	Aug. 7	366	104	24	564
Romadka, Anthony V., Wauwatosa, Wis. Trunk-caster	289,716	Dec. 4	437	122	25	963
Romaine, David, assignor of one-half to N. H. Steward, Philadelphia, Pa. Expansion-cover for bolts	272,328	Feb. 13	918	256	23	611
Romans, John W., Chelsea, Mass., assignor of one-half to J. W. McClellan, Valparaiso, Ind. Center-square and bevel	271,128	Jan. 23	1605	461	23	323
Romine, Malcolm J., and D. P. Lee, Nevada, Mo. Post-hole auger	283,283	Aug. 14	973	272	24	681
Rominger, George S., assignor to American Buttonhole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Compensating-journal	276,287	Apr. 24	1814	505	23	1561
Romkey, Frank C., Burlington, Iowa. Harrow	286,154	Oct. 2	457	124	25	85
Romkey, John H., Burlington, Iowa. Harrow	279,437	June 12	1040	288	23	2308
Rondebush, Hezekiah, *et al.* (See Anderson, David H., assignor.)						
Ronner, John H. J. (See Cary, Joseph C., assignor.)						
Rood, A. E., *et al.* (See Shepler, Pius L., assignor.)						
Rood, Alphonso E., *et al.* (See Jewett, Nathan, assignor.)						
Rood, Albert O., Syracuse, assignor to V. P. Travers, New York, N. Y. Hammock and making the body of the same	275,161	May 8	896	218	23	1773
Rood, H. W., *et al.* (See Smith, Alfred B., assignor.)						
Rooney, Henry F., Randolph, assignor to C. A. Shaw, Boston, Mass. Edge-trimmer for boots and shoes	280,958	July 10	769	213	24	141
Rooney, John B. (See Johnston, Samuel L., assignor.)						
Rooney, Mary. (See Luscomb, James E., assignor.)						
Rooney, Pattrick, Chariton, Iowa. Straddle-row cultivator	270,251	Jan. 9	503	148	23	109
Roop, Henry O., Carrollton, Ga. Plow	288,666	Nov. 20	1106	303	25	715
Roorbach, William L., Philadelphia, Pa. Bottle-stopper	272,775	Feb. 20	1501	422	23	718
Roos, August, New York, N. Y. Filter	278,186	May 22	2045	562	23	1998
Roosevelt, Hilborne L., New York, N. Y. Overshoe	277,614	May 15	1358	366	23	1870
Root, Andrus P., Deansville, N. Y. Twine-setter for vines	283,516	Aug. 21	1267	355	24	740
Root, Gardner B., Amherst, Wis. Feeder for grinding rolls	287,724	Oct. 30	2479	668	25	481
Root, George W. (See Smyth, David M., assignor.)						
Root, Henry, San Francisco, Cal. Cable railway	285,514	Sept. 25	1654	465	24	1211
Root, Henry, San Francisco, Cal. Gripping and carrying apparatus for cable railways	286,163	Oct. 2	466	127, 128	25	87
Root, Howard C., and J. C. Reilly, assignors of one-third to S. W. Thome, Philadelphia, Pa. Device for suspending electric cables	278,277	May 22	2166	596, 597	23	2018
Root, James, Black's Station, Cal. Hopper for grain-separators	284,333	Sept. 4	216	60	24	941
Root, John B., Port Chester, N. Y. Machine for making spiral-jointed metallic pipe	271,740	Feb. 6	183	50, 51	23	472
Root, John B., Port Chester, N. Y. Pump	280,402	July 3	77	21	24	16
Root, John B., Port Chester, N. Y. Machine for making spirally-jointed metal pipe	280,403	July 3	78	21	24	17
Root, John B., Port Chester, N. Y. Device for feeding rivets	280,404	July 3	80	22	24	17
Root, John B., Port Chester, N. Y. Machine for shaping and riveting spiral pipes	283,923	Aug. 28	1755	495, 496	24	841
Root, John B., Port Chester, N. Y. Construction of sheet-metal pipe-sections	283,924	Aug. 28	1757	496	24	842
Root, John B., Port Chester, N. Y. Pneumatic compressor	283,925	Aug. 28	1758	496	24	843
Root, William A., Montreal, Quebec, Canada. Machine for forming staples	277,615	May 15	1359	366	23	1871
Root, William A., New York, N. Y., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass., and I. L. Ellwood, De Kalb, Ill. Barbed wire	281,300	July 17	1200	332	24	226
Roovers, Alexander. (See Roovers, Alfred and A.)						
Roovers, Alfred and A., New York, N. Y. Electric cane	287,170	Oct. 23	1760	483	25	339
Rorebeck, Henry, Parma, assignor to C. E. Coates, Spencerport, N. Y. Halter	288,595	Nov. 13	1016	279	25	694
Rose, Allen W., and C. A. Cheever, New York, N. Y., assignors to said Cheever, trustee. Electric speaking-telephone	272,329	Feb. 13	919	256	23	611
Rose, Andrew L., Torrington, Conn. Pipe fitting and threading machine	284,904	Sept. 11	909	256	24	1067
Rose, Charles, *et al.* (See Runk, Jacob L., assignor.)						
Rose, Elmore E., Springfield, Mass. Bit-brace fastening	275,860	Apr. 17	1300	357	23	1463
Rose, George W. (See Rose, William J. and G. W.)						
Rose, Henry, Prairie du Sac, Wis. Table-leg fastening	275,274	Apr. 3	500	138	23	1311
Rose, Henry W., Westerly, R. I. Automatic feeding device	280,084	June 26	1820	512	23	2456
Rose, Ira, Salinas, Cal. Lifting-jack	288,367	Nov. 13	734	199	25	643
Rose, Jeffrey H., Brooklyn, N. Y. Device for opening and closing skylights	270,340	Jan. 9	611	179	23	129
Rose, John H., Norwalk, Conn. Toy pistol	287,562	Oct. 30	2295	621	25	446
Rose, John J., Elmwood, Ill. Whip-holder	289,310	Nov. 27	1886	525	25	864
Rose, Joseph P. (See Beddow, George, assignor.)						
Rose, Joshua. (See Colebrook, Cemer T., assignor.)						
Rose, Joshua, New York, N. Y. Tube cutter and expander	286,227	Oct. 9	543	149	25	110
Rose, Reuben M., Brooklyn, N. Y. Dial and reading-disk for fare-recorders	281,301	July 17	1200	332	24	226
Rose, Reuben M., Brooklyn, N. Y. Fare register and recorder	281,302	July 17	1202	332	24	226
Rose, Rufus E., Kissimmee, Fla. Dredging and excavating machine	279,599	June 19	1233	342	23	2347
Rose, William H., Baltimore, Md. Spring clasping-loop for neck-wear	283,284	Aug. 14	974	272	24	681
Rose, William J. and G. W., Horseheads, N. Y. Vehicle-spring	290,934	Dec. 25	1990	549	25	1258
Rose, William P., Irwin, Colo. Artificial stone	279,817	June 19	1480	.....	23	2391
Rosebrook, Frank, Elmira, N. Y. Electric regulator and alarm for incubators	271,991	Feb. 6	499	134, 135	23	527
Rosebrooks, John M., assignor to W. A. Wood Mowing and Reaping Machine Company, Hoosick Falls, N. Y. Apparatus for adjusting harvester-reels	270,341	Jan. 9	612	180	23	129
Rosebrugh, Abner M., Toronto, Ontario, Canada. Galvanic battery	271,992	Feb. 6	502	135	23	527
Rosebrugh, Abner M., Toronto, Ontario, Canada, assignor to W. Hubbard, Elgin, Ill. Mechanical speaking-telegraph	270,848	Jan. 16	1260	363	23	261
Rosenberg & Co., I. (See Rosenberg, Seymour H., assignor.)						
Rosenberg, Seymour H., assignor to I. Rosenberg & Co., New Haven, Conn. Corset	274,387	Mar. 20	1467	402	23	1102

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Roussan, Hyacinthe, and M. G. De Barbeyrac, Paris, France. Rectifying alcohol and other crude spirits	272,585	Feb. 20	1264	.....	23	676
Rousseau, David, New York, N. Y. Automatic circuit-opener	279,107	June 5	622	170	23	2229
Rousseau, Etienne E. H., Paris, France. Apparatus for utilizing the force of fluids, air, and water	276,079	Apr. 17	1553	429	23	1509
Rousseau, Necter. (See Brennan and Rousseau.)						
Rousseau, Necter, assignor of one-half to J. W. Brennan, Chicago, Ill. Insulator	289,449	Dec. 4	91	26	25	903
Roux, François. (See Vernay and Roux.)						
Rowan, Thomas, London, England. Method of and apparatus for ventilating buildings, ships, vessels, railway-carriages, &c	272,158	Feb. 13	713	196	23	575
Rowan, Thomas, London, England. Chimney or flue	283,025	Aug. 14	660	186	24	625
Rowan, Thomas, London, England. Ventilating and apparatus therefor	283,148	Aug. 14	801	224	24	649
Rowan, Thomas, London, England. Warming and ventilating and apparatus therefor	283,149	Aug. 14	803	224	24	649
Rowan, Thomas, London, England. Apparatus for ventilating sewers and drains	284,761	Sept. 11	746	207	24	1036
Rowan, William, Belfast, Ireland. Piston	273,161	Feb. 27	1998	562	23	811
Rowden, James W., administrator. (See Crismon and Whitaker.)						
Rowe, Cyrenius, Wales, N. Y., assignor of one-half to E. T. Allen, Philadelphia, Pa. Traction-engine	271,129	Jan. 23	1606	461	23	324
Rowe, Edward T., assignor to New England Patent Fire Escape Company, Boston, Mass. Fire-escape	283,666	Aug. 21	1435	402	24	773
Rowe, Enoch J., R. Holmes, and J. Dawson, Eureka, Cal. Churn	271,130	Jan. 23	1607	462	23	324
Rowe, John, Davenport, Iowa. Base-burning steam-boiler	286,076	Oct. 2	365	101	25	67
Rowe, L. L. (See Ridgway, Charles L., assignor.)						
Rowe, Philip C., Boston, Mass. Pulley for use in connection with awnings, &c	274,036	Mar. 13	1009	276	23	1015
Rowe, William, assignor to himself and J. A. Clarke, Haverhill, Mass. Door-lock	277,616	May 15	1360	366	23	1871
Rowe, William N., Washington, D. C. Separable button	279,279	June 12	825	229	23	2274
Rowell, Guilford D., Appleton, Wis. Hoisting-carrier	271,276	Jan. 30	1786	518, 519	23	362
Rowell, Guilford D., Appleton, Wis. Seed-bar tooth	287,171	Oct. 23	1761	483	25	339
Rowell, Guilford D., Appleton, Wis. Reversible cultivator-tooth	287,172	Oct. 23	1762	483	25	340
Rowland, Charles, Quincy, Ill. Calculating device	284,576	Sept. 4	508	142, 143	24	990
Rowland, Henry A., Baltimore, Md. Casting brass and other metals	272,088	Feb. 13	628	171	23	560
Rowland, Henry A., Baltimore, Md. Apparatus for grinding screws	272,460	Feb. 20	1130	317	23	652
Rowland, James L., New York, N. Y. Composition to be used in the manufacture of artificial stone	288,262	Nov. 13	588	.....	25	619
Rowlee, Torrence. (See Shepard, Edson E., assignor.)						
Rowlett, Oliver B., assignor of one-half to R. C. Ogborn, Richmond, Ind. Device for purifying air	283,724	Aug. 21	1512	427	24	788
Roy, Bartholomew, St. Clair, Mich. Chain-propeller	272,159	Feb. 13	714	196	23	575
Roy, Bozil S., Worcester, Mass. Card-grinding machine	276,884	May 1	449	120, 121	23	1705
Roy, Bozil S., Worcester, Mass. Lubricating-eccentric	276,885	May 1	451	121	23	1706
Roy, John, New Orleans, La. Pile-driver	278,603	May 29	2559	707	23	2101
Roy, John C., Wheeling, W. Va. Horse hay-rake	275,789	Apr. 10	1201	329	23	1439
Royal, George, Davenport, Iowa. Railway-track cleaner	287,583	Oct. 30	2296	621	25	446
Royeau, Alphonse A., Le Mans, France. Machine for the manufacture of candles	269,885	Jan. 2	71	22	23	16
Royer, Wesley, Mount Joy, Pa. Shaft-carrier	279,283	June 19	1563	437	23	2405
Royle, John J., Manchester, county of Lancaster, England. Pipe-coupling for drop-lights	286,229	Oct. 9	545	150	25	110
Royle, John, Jr., and V., Paterson, N. J. Spindle and flier for spinning-machines	271,521	Jan. 30	2111	607	23	421
Royle, Vernon. (See Royle, John, Jr., and V.)						
Rubarts, Oren, Albany, Oreg. Saddle-horn	279,438	June 12	1041	289	23	2309
Rubber and Celluloid Harness Trimming Company. (See Lockwood, David C., assignor.)						
Rubelin, Joseph, Como, Italy, assignor to W. Meister, New York, N. Y. Treating silk preparatory to dyeing and weaving	270,557	Jan. 9	899	.....	23	185
Rubens, Morris. (See Vehring, Charles, assignor.)						
Rubin, Max, Philadelphia, Pa. Shawl-strap	289,564	Dec. 4	243	68	25	930
Rudd, Frederick H., Hebron, Nebr. Car-coupling	289,782	Dec. 4	507	140	25	974
Rudd, Halsey H. (See Aurand, Balera J., assignor.)						
Ruddell, George, New York, N. Y. Platform-elevator	278,050	May 22	1875	513	23	1968
Ruddell, Hiram F. (See White and Ruddell.)						
Ruddock, Charles A., Benson, and N. S. Ruddock, Granite Falls, Minn. Bundle-separating attachment for self-binding harvesters	270,486	Jan. 9	797	233	23	165
Ruddock, Nathan S. (See Ruddock, Charles A. and N. S.)						
Rude Brothers Manufacturing Company. (See Rude, Squire B., G. W., and J. R., assignors.)						
Rude Brothers Manufacturing Company. (See Rude and Swope, assignors.)						
Rude, George W. (See Rude, Squire B., G. W., and J. R.)						
Rude, George W., J. R., and S. B., and H. G. Swope, assignors to Rude Brothers Manufacturing Company, Liberty, Ind. Walking grain-drill	274,661	Mar. 27	1834	509, 510	23	1173
Rude, John R. (See Rude, Squire B., G. W., and J. R.)						
Rude, John R. (See Rude and Swope.)						
Rude, John R., and H. G. Swope, Liberty, Ind. Grain-drill	274,662	Mar. 27	1836	510, 511	23	1174
Rude, John R., and H. G. Swope, assignors to Rude Brothers Manufacturing Company, Liberty, Ind. Grain-drill	276,474	Apr. 24	2059	572	23	1603
Rude, John R., and H. G. Swope, assignors to Rude Brothers Manufacturing Company, Liberty, Ind. Seeding-machine	285,845	Oct. 2	78	23, 24	25	16
Rude, Squire B. (See Rude and Swope.)						
Rude, Squire B., G. W., and J. R., assignors to Rude Brothers Manufacturing Company, Liberty, Ind. Grain-drill	275,862	Apr. 17	1302	358	23	1464
Rudolph, Alexander, assignor of two-thirds to J. A. Becsey and T. J. Welsh, San Francisco, Cal. Window-sash	276,886	May 1	452	121	23	1706
Rudolph, Alexander, assignor of two-thirds to J. A. Becsey and T. J. Welsh, San Francisco, Cal. Window-sash	276,887	May 1	453	122	23	1706
Rudolph, Christian, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Manufacture of cinnamic acid	276,888	May 1	455	.....	23	1706
Rudolph, Christian, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Material for the manufacture of metamethyl indigo	276,889	May 1	445	.....	23	1706
Rudolph, Christian, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Manufacture of metamethyl indigo	276,890	May 1	456	.....	23	1706
Rudolph, William, Sr., St. Louis, Mo. Breast-chain for harness	282,011	July 24	2103	576	24	384
Rudolphs, John, Stockholm, Sweden. Lubricator	282,781	Aug. 7	367	104	24	565
Ruebel, Charles A. E., Chilicothe, Ohio. Burglar-proof safe	271,131	Jan. 23	1608	462	23	324
Ruebsamen, Jacob, Decatur, Ill. Wardrobe-bedstead	274,226	Mar. 20	1263	349	23	1067

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rueckert, John R., and R. A. Hall, Baltimore, Md. Faucet	288,865	Nov. 20	1349	370	25	758
Rueger, Charles C., San Francisco, Cal. Ore-concentrator	287,173	Oct. 23	1763	484	25	340
Ruemelin, Gustav, Milwaukee, Wis. Tan-vat	276,634	May 1	111	30	23	1646
Ruf, Guy. (See Morgan, Ruf, and Davis.)						
Rufe, John J., Doylestown, Pa. Governor for mechanical powers	276,080	Apr. 17	1556	429	23	1509
Ruff, Emille, *et al.* (See Schunk, Henry, assignor.)						
Ruffani, Paul, Dresden, Saxony, Germany. Card-holder	286,332	Oct. 9	704	187	25	138
Ruffin, Marie C. A., Paris, France. Centrifugal machine for separating solid and liquid matters	289,565	Dec. 4	244	69	25	930
Ruffner, Daniel B., *et al.* (See Dunn, William, assignor.)						
Ruger & Co., James W., *et al.* (See Keller and Myers, assignors.)						
Ruger, James W., *et al.* (See Keller and Myers, assignors.)						
Rugg, Harvey. (See Halligan and Rugg.)						
Rugland, Samuel C., San Francisco, Cal. Tailor's measure	282,670	Aug. 7	234	68	24	540
Ruggles, Horatio N., *et al.* (See Elliott, Charles W., assignor.)						
Ruggles, Robert B., Windsor, assignor of one-half to J. P. Collard and J. M. Lester, Hartford, Conn. Beer-pump	272,089	Feb. 13	628	171	23	560
Ruhlmann, Henry A., Grand Rapids, Mich. Packing-box	277,788	May 15	1559	424	23	1907
Ruka, John, Boscobel, Wis. Wagon-brake	285,077	Sept. 18	1135	317	24	1113
Rumbaugh, David J., and J. S. Brandt, Cridersville, Ohio. Car-coupling	273,896	Mar. 13	846	229	23	987
Rumble, William, assignor to W. C. Andrews and W. P. Shinn, New York, N. Y. Machine for making wood-screws	283,420	Aug. 21	1150	325, 326	24	720
Rumely, John, assignor to M. Rumely, La Porte, Ind. Thrashing-machine	277,512	May 15	1233	332	23	1851
Rumely, Meinrad. (See Rumely, John, assignor.)						
Rumely, William N., La Porte, Ind. Road-engine	273,396	Mar. 6	205	55	23	869
Rumely, William N., La Porte, Ind. Traction-engine	280,519	July 3	223	59	24	40
Rumely, William N., La Porte, Ind. Traction-engine	284,238	Sept. 4	106	29	24	922
Rumely, William N., La Porte, Ind. Thrashing-machine separator	284,675	Sept. 11	635	180	24	1017
Rumely, William N., La Porte, Ind. Traction-engine	284,676	Sept. 11	636	180	24	1017
Rummel, Louis C., and E. J. Fiedler, Ledbetter, Tex. Self-packing cotton-press	285,765	Sept. 25	1967	557	24	1267
Rummelmeyer, Ernst. (See Wetzel, Charles H., assignor.)						
Rumrill, John A., Salina, Kans. Grain-header	289,144	Nov. 27	1692	469	25	826
Rumsay, Lewis M., St. Louis, Mo. Chain-pump bucket	271,522	Jan. 30	2112	608	23	421
Rumsey, Albert R. Cleveland, Ohio. Striking-bag for exercising	291,015	Dec. 25	2102	579	25	1275
Rumsey, Charles B., assignor of two-thirds to C. A. Skinner and G. D. Daniels, Homer, N. Y. Positive shuttle-motion for looms	280,960	July 10	772	214	24	142
Rundback, Joseph, assignor to D. Block, New York, N. Y. Commode	281,203	July 10	1073	295	24	196
Rundle, George H. (See Rundle, John T., assignor.)						
Rundle, John T., assignor to G. H. Rundle, Palmyra, Wis. Hay elevator and carrier	280,865	July 10	654	184, 185	24	122
Rundlett, Charles, Farmingdale, assignor of one-half to E. D. Haley, Gardiner, Me. Machine for lowering ice, &c.	275,863	Apr. 17	1303	358	23	1464
Rundlett, James C., Cape Elizabeth, Me. Egg rack and holder	283,285	Aug. 14	974	272	24	681
Runge, Frederick W., San Francisco, Cal. Spring-balance counter-scale	289,450	Dec. 4	92	26, 27	25	903
Runk, Jacob L., assignor of four-fifths to A. Watts, C. Rose, W. S. Forman, and J. A. Watts, Nashville, Ill. Sulky-plow	282,929	Aug. 7	535	151	24	595
Runstetler, Andrew. (See Runstetler, Michael and A.)						
Runstetler, Andrew and M., assignors to Farmers Friend Manufacturing Company, Dayton, Ohio. Grain-drill	287,779	Oct. 30	2559	689, 690	25	495
Runstetler, Andrew, and J. A. Marlay, assignors to Farmer's Friend Manufacturing Company, Dayton, Ohio. Check-row attachment for corn-planters	282,012	July 24	2103	570	24	384
Runstetler, Andrew and M., assignors to Farmers Friend Manufacturing Company, Dayton, Ohio. Grain-drill	285,363	Sept. 18	1469	414	24	1172
Runstetler, Michael. (See Runstetler, Andrew and M.)						
Runstetler, Michael and A., assignors to Farmers Friend Manufacturing Company, Dayton, Ohio. Corn-planter	281,204	July 10	1074	295, 296	24	196
Rupert, William W., Pottstown, Pa. Planescope	279,439	June 12	1042	289	23	2309
Rupertus, John K. (See Grannan, Louis, assignor.)						
Rüs, Jacob A., *et al.* (See Nicolaisen, Eberhardt, assignor.)						
Rushforth, William H., Camden, N. J. Car-signal	282,569	Aug. 7	115	34	24	520
Rushforth, William H., Camden, N. J. Car-signal	282,570	Aug. 7	116	35	24	520
Rushlow, Romeo L., West Mitchell, Iowa. Machine for handling yarn in the dye-vat	279,884	June 19	1563	437	23	2405
Rusler, William A., New Way, Ohio. Hinged tongue	287,328	Oct. 23	1961	535	25	375
Rusling, Joseph F., and E. E. Odell, Lawrence, Pa. Sewing-needle	278,459	May 29	2425	661	23	2072
Russ, James H., Providence, R. I. Balanced spring-roller	277,429	May 8	1131	305	23	1827
Russ, James H., Providence, R. I. Combined window-shade weight and pull	280,768	July 3	533	149	24	94
Russell, Albert, and F. Curtis, Newburyport, Mass. Ship's pump	274,145	Mar. 20	1156	318, 319	23	1047
Russell, Albert, and F. Curtis, Newburyport, Mass. Ship's pump. (Reissue)	10,418	Dec. 4	524	145	25	977
Russell, Alvin, Bombay, N. Y. Anti-friction journal-box	283,421	Aug. 21	1155	326	24	720
Russell, Andrew H. (See Livermore and Russell.)						
Russell, Benjamin O., Denver, Colo. Roasting and smelting furnace	290,115	Dec. 11	916	260, 261	25	1056
Russell Charles E. (See Cameron and Russell.)						
Russell, Charles E., Ravenna, Ohio. Bobbin-winder for sewing-machines	280,961	July 10	774	215	24	142
Russell, Charles S., Philadelphia Pa. Magnetic plaster	272,904	Feb. 27	1690	473	23	757
Russell, David J., New Bedford, Mass. Dumping-wagon	276,475	Apr. 24	2060	572	23	1603
Russell, Edward H., Park City, Utah Ter. Purifying soda-ash	271,366	Jan. 30	1916	.....	23	385
Russell, Edwin G. (See Trites, John S., assignor.)						
Russell & Erwin Manufacturing Company. (See Doolittle, William E. and D. E., assignors.)						
Russell & Erwin Manufacturing Company. (See Lyons, Thomas, assignor.)						
Russell & Erwin Manufacturing Company. (See Smith, Charles H., assignor.)						
Russell & Erwin Manufacturing Company. (See Sparks, William E., assignor.)						
Russell, Frederick W., London, England. Withdrawing corks or bungs from bottles, casks, &c.	273,897	Mar. 13	847	230	23	987
Russell, George, assignor to himself and J. S. Kuhn, McKeesport, Pa. Manufacture of sheet-metal fenders	286,489	Oct. 9	982	239	25	171
Russell, George, assignor to himself and J. S. Kuhn, McKeesport, Pa. Manufacture of sheet-metal fenders	286,490	Oct. 9	883	239	25	171
Russell, George, and R. W. Gordon, McKeesport, assignor to E. C. Converse, Pittsburg, Pa. Pipe-coupling	284,146	Aug. 28	2060	571	24	894
Russell, George W. (See Smith, Richard, assignor.)						
Russell, Helen A., Brooklyn, N. Y. Game-counter	278,747	June 5	88	26	23	2139

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Russell, Henry T., Chicago, Ill. Spike	278,604	May 29	2590	707	23	2101
Russell, Ira W., Storm Lake, Iowa. Windmill	270,487	Jan. 9	798	233	23	166
Russell, J. H., *et al.* (See Ware, Charles L., assignor.)						
Russell, Jay E., San Francisco, Cal. Hydraulic mining-machine	273,397	Mar. 6	206	55	23	869
Russell, John, Berlin, Pa. Middlings-purifier	284,488	Sept. 4	398	111	24	971
Russell, John, Berlin, Pa. Grain-cleaner	284,489	Sept. 4	399	112	24	972
Russell, John, Berlin, Pa. Grain-separator	284,490	Sept. 4	401	112	24	972
Russell, John E., *et al.* (See Goodridge, James F., assignor.)						
Russell, John M., assignor of one-half to R. M. Mann, Garrison, Kans. Automatic fire-lighter	284,677	Sept. 11	637	180	24	1018
Russell, John W., South Hadley Falls, assignor to Valley Machine Company, East Hampton, Mass. Steam-actuated valve	283,359	Aug. 14	1075	302	24	700
Russell, Philip G., Washington, D. C. Hand for time-pieces	290,116	Dec. 11	919	261	25	1057
Russell, Samuel, Apperton Villa, Staines, county of Middlesex, England, assignor to Janes & Kirtland, New York, N. Y. Self-feeding fire-grate	275,525	Apr. 10	866	234	23	1382
Russell, Thomas B., Fort Valley, Ga. Dish, &c	284,239	Sept. 4	107	39	24	922
Russell, William R., Big Valley, Tex. Cotton chopper and scraper	281,205	July 10	1076	296	24	197
Russmann, Claus, Hamburg, Germany. Steam boiler or generator	271,523	Jan. 30	2113	608	23	421
Rust, Arthur E. (See Rust, Solon R. and A. E.)						
Rust, Ephraim H., Boston, Mass. Material for covering heated surfaces	283,819	Aug. 28	1637	461	24	820
Rust, Ephraim H., Boston, Mass. Plastic cement mixture for fire-proof and other structures	289,451	Dec. 4	93	.....	25	903
Rust, Halbert, Jeffersonville, Ind. Draw-bar for cars	287,966	Nov. 6	224	63	25	546
Rust, Samuel. (See Wright and Rust.)						
Rust, Solon R., Pine Meadows, assignor to Meriden Patent Novelty Company, Meriden, Conn. Metal toy-plane	282,468	July 31	2705	743 744	24	491
Rust, Solon R., and A. E., Pine Meadow, Conn. Plane	287,584	Oct. 30	2297	621	25	446
Rust, Solon R. and A. E., Pine Meadow, assignors to Meriden Patent Novelty Company, Meriden, Conn. Bench-plane	279,885	June 19	1564	438	23	2405
Rust, Solon R., and A. E., Pine Meadow, assignors to said Solon R. Rust, H. B. and J. C. Beach, Meriden, Conn. Joiner's plane	288,866	Nov. 20	1350	370	25	758
Rutenick, Albert, New York, N. Y. Coffee pot and filter	272,481	Feb. 20	1131	318	23	652
Rutherford, Robert W., Brenham, assignor to I. P. Kibbe, Victoria, Tex. Combined agricultural implement	284,982	Sept. 11	1003	283	24	1084
Rutherford, William. (See Laird, John, Jr., assignor.)						
Rutter, James W., Wakefield, Mass. Rowing-gear	282,121	July 31	2264	621	24	416
Rutter, Levi, Newmanstown, Pa. Refrigerator-car	283,150	Aug. 14	804	225	24	649
Ruttmann, Carl, Jersey City, N. J. Watch-regulator	289,359	Nov. 27	1948	541	25	875
Rutz, Edward. (See Carson, Robert J., assignor.)						
Rutz, Edward, Springfield, Ill. Fence-post	279,440	June 12	1044	289	23	2309
Ryan, Amos P., Waynesburg, Pa. Bosom-board	287,329	Oct. 23	1961	535	25	375
Ryan, J. Tyler, assignor of one-half to L. Snider's Sons, Hamilton, Ohio. Making paper of imperfections	281,400	July 17	1325	.....	24	246
Ryan, J. Tyler, assignor of one-half to L. Snider's Sons, Hamilton, Ohio. Making paper of imperfections	283,026	Aug. 14	662	.....	24	625
Ryan, John C., Detroit, Mich. Skylight	286,558	Oct. 9	972	261	25	187
Ryan, John D., and P. Lane, East Saginaw, Mich. Saw-tab	288,867	Nov. 20	1351	371	25	758
Ryan, Lawrence C., Hawkinsville, Ga. Water-wheel	287,330	Oct. 23	1962	536	25	375
Ryan, Patrick, assignor of two-thirds to W. H. Kelly and R. J. Morrison, New York, N. Y. Street-sweeping machine	271,993	Feb. 6	504	136	23	527
Ryan, Patrick W., Marlborough, Mass. Shingling-bracket	285,164	Sept. 18	1243	349	24	1131
Ryan, Thomas, Syracuse, N. Y. Tool for mortising metals	280,866	July 10	656	185	24	122
Ryan, Thomas R., St. Louis, Mo. Straining-machine	277,789	May 15	1560	425	23	1908
Ryan, William H., Belton, Tex. Boring and tenoning machine	276,476	Apr. 24	2061	572	23	1603
Ryder, Charles M., Chester, Pa. Casting attachment for open-hearth steel-melting furnaces	277,950	May 15	1630	444	23	1920
Ryder, Charles M., Chester, Pa. Open-hearth steel-melting furnace	287,864	Nov. 6	87	26	25	523
Ryder, James F. (See Finn, John L., assignor.)						
Ryder, Martin H., Stamford, Conn. Hat or bonnet	280,331	June 26	2113	592	23	2508
Ryder, Martin H., Stamford, Conn. Machine for blocking hats	283,820	Aug. 28	1637	461	24	820
Ryder, Martin H., assignor of one-half to E. A. White, Stamford, Conn. Machine for sewing strands of braid	287,393	Oct. 23	2040	554 555	25	388
Ryder, Martin H., assignor of two-thirds to E. A. White, Stamford, and A. Solmans, South Norwalk, Conn. Hat-curling machine	287,865	Nov. 6	89	27	25	523
Ryder, Martin H., Stamford, Conn., assignor to Willcox & Gibbs Sewing Machine Company, of New York. Wiring brims of hats and bonnets	288,596	Nov. 13	1017	279	25	694
Ryder, Seth B. (See Leach, Jesse L., assignor.)						
Ryder, Seth B., Elizabeth, N. J. Carpet-cleaner	286,965	Oct. 16	1493	410	25	283
Ryland, S. P., Jr., *et al.* (See Earl, Henry W., assignor.)						
Rylands, Dan. (See Codd and Rylands.)						
Ryno, John L., Farmer Village, N. Y. Neck-yoke center	291,005	Dec. 25	2092	576	25	1273
Ryrie, Robert A., assignor of one-half to H. C. Burrichter, Camden, N. J. Drive-well point	279,600	June 19	1235	342	23	2348
Ryther, William H., Somonauk, Ill. Rotary for use in connection with windmills	278,748	June 5	89	26	23	2139
Sabine, Joseph F. (See Maltby and Sabine.)						
Sachs, Heinrich, Washington, D. C. Tricycle	290,117	Dec. 11	922	262	25	1057
Sachs, Joseph J., Woodlawns, Sunbury-on-Thames, county of Middlesex, England. Production of surfaces for printing, &c	274,519	Mar. 27	1668	.....	23	1143
Sackett, Alfred M., Clinton, Ill. Stop for check-row wires	284,240	Sept. 4	108	29	24	922
Sackett, Augustine, New York, N. Y. Roofing or sheathing paper	278,278	May 22	2167	597	23	2018
Sackett, Charles E., Morristown, N. J. Combined plow and pulverizer	279,818	June 19	1481	415	23	2391
Sackett, Charles E., Morristown, N. J. Tilling-machine	279,819	June 19	1482	415	23	2391
Sackett, Edward S., Brooklyn, N. Y. Game	275,526	Apr. 10	867	234	23	1382
Sackett, George L., West Springfield, Mass. Lighting device for lanterns. (Reissue)	10,416	Dec. 4	522	144	25	977
Sackett, Joseph S., Plattsburg, N. Y. Ruffling attachment for sewing-machines	270,558	Jan. 9	900	260	23	185
Sackett, Joseph S., Plattsburg, N. Y. Combined plaiting and scalloping device	279,820	June 19	1483	416	23	2391
Sackett, Joseph S., assignor of one-half to J. Halliwell, New Haven, Conn. Mechanical movement	279,441	June 12	1045	289	23	2309
Sackett, Joseph S., assignor of one-half to J. Halliwell, New Haven, Conn. Sewing-machine attachment	284,069	Aug. 28	1958	546	24	877
Sackett, Joseph S., assignor of one-half to J. Halliwell, New Haven, Conn. Mechanical movement	284,491	Sept. 4	402	113	24	972
Sackett, Joseph S., assignor of one-half to J. Halliwell, New Haven, Conn. Ruffling attachment for sewing-machines	287,174	Oct. 23	1765	484	25	340
Sackett, Joseph S., assignor of one-half to J. Halliwell, New Haven, Conn. Tuck-marker	288,120	Nov. 6	407	115	25	579
Sackett, Joseph S., assignor of one-half to J. Halliwell, New Haven, Conn. Ruffling attachment for sewing-machines	290,477	Dec. 18	1393	385	25	1148

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
tt, Joseph S., assignor of one-half to J. Halliwell, New Haven, Conn. Ruffling attment for sewing-machines	290,478	Dec. 18	1394	385	25	1148
tt, Joseph S., assignor of one-half to J. Halliwell, New Haven, Conn. Combined er and folder for sewing-machines	290,479	Dec. 18	1397	386	25	1148
tt, Joseph S., assignor of one-half to J. Halliwell, New Haven, Conn. Tuck-marker ewing-machines	290,480	Dec. 18	1397	386	25	1148
tt, Sherman G., Denver, Colo. Smelting-furnace	278,279	May 22	2168	597	23	2018
, James J., McBride's, Mich. Horizontal guide for saws	277,351	May 8	1043	280	23	1812
. John. (See Nash and Sadler.)						
l, Joseph A., Boston, Mass. Apparatus for skiving boot and shoe tips	289,145	Nov. 27	1693	470	25	827
l, Mark, Boston, assignor to himself and F. S. Frost, Arlington, Mass. Friction porting device for mirrors, transoms, &c	278,364	May 29	2310	631	23	2052
Carlton E. (See Hall, Edward, assignor.)						
Eugene, assignor of one-half to H. H. McConnell, Jacksborough, Tex. Clamp	279,601	June 19	1235	343	23	2348
Isaac, Pleasantville, N. J. Rain-protector for chimneys and roofs	280,085	June 26	1820	512	23	2456
Philip. (See Knowlton and Sage.)						
Fred J., Marysville, Ohio. Surveyor's steel chain-tape and reel	279,190	June 12	726	199	23	2257
Rockwood. (See Skinner, Henry M., assignor.)						
n, Belle M., San Francisco, Cal. Box-cover attachment	290,481	Dec. 18	1400	386	25	1149
rom, August, Stockholm, Wis. Lamp-chimney cleaner	282,782	Aug. 7	369	104	24	565
John M., Portland, Mich. Punching and shearing machine	271,277	Jan. 30	1789	519	23	363
Requier, Henry F., Asnieres, France. Apparatus for the reduction of grain	277,790	May 15	1561	425	23	1908
Fred. (See Williams and Saker.)						
e, Cyrus W., Torrington, Conn. Two-wheeled vehicle	270,700	Jan. 16	1087	311	23	227
e, Cyrus W., Torrington, Conn. Vehicle	272,331	Feb. 13	922	257	23	612
e, Cyrus W., Torrington, Conn. Side-spring vehicle	274,390	Mar. 20	1474	405	23	1104
e, Cyrus W., Torrington, Conn. Vehicle-spring	275,417	Apr. 10	725	193	23	1359
e, Cyrus W., Torrington, Conn. Spring-shackle	277,162	May 8	928	218	23	1774
e, Cyrus W., Torrington, Conn. Vehicle-spring	281,561	July 17	1524	418	24	280
e, Cyrus W., Torrington, Conn. Two-wheeled vehicle	282,378	July 31	2587	710, 711	24	471
ux, Charles. (See Gros and Salbreux.)						
homas M., Morganfield, Ky. Bed-slat clamp	288,668	Nov. 20	1108	304	25	715
William B., Fort Atkinson, Wis. Carriage-top	273,766	Mar. 13	690	185	23	960
ary, Charles H., De Kalb, Ill. Metallic fence	272,482	Feb. 20	1133	318	23	653
ary, Dexter. (See Goodrich, Perry F., assignor.)						
ary, George P., and C. W. Foster, New Haven, Conn. Feed-water regulator for m-boilers	284,762	Sept. 11	747	207	24	1037
ary, Levi E., Providence, R. I. Knitting-machine	284,905	Sept. 11	909	256, 257	24	1067
ary, Levi E., Providence, R. I. Knitting-machine needle	287,175	Oct. 23	1768	485	25	340
Victor A., Fort Wayne, Ind. Vehicle-hub	288,121	Nov. 6	409	115	25	579
Maximilian J., assignor of one-half to L. Limbert, Hanau, Germany. Engraving-ma-e	274,391	Mar. 20	1475	405	23	1104
, Eusebio, New Orleans, La. Elevator	285,309	Sept. 18	1404	397	24	1161
on, Etienne, assignor of one-half to E. Armant, Montreal, Quebec, Canada. Punch-and cutting machine	272,332	Feb. 13	923	257	23	612
on, Rudolph G., Newark, N. J. Hat and other head-wear	287,176	Oct. 23	1769	485	25	341
an, George, assignor of one-half to W. A. Gerken, Bloomington, Ill. Spark-arrester	279,021	June 5	497	135	23	2308
an, George H., Salineville, Ohio. Corn-planter and fertilizer combined	277,513	May 15	1234	332	23	1851
lge, Robert. (See Fuller and Salvadge.)						
, Peter, Rockford, Ill. Wagon-box	278,365	May 29	2310	632	23	2052
is, Lewis W. (See Bunce and Sammis.)						
ons, Jacob S., New York, N. Y. Sash-fastener	271,367	Jan. 30	1916	554	23	385
ons, Jacob S., New York, N. Y. Store-stool	277,514	May 15	1235	333	23	1851
ons, Jacob S., assignor to United States Pneumatic Copying Press Company, New k, N. Y. Copying-press	277,946	May 22	1746	476	23	1945
ons, Thomas J., assignor to himself and E. B. Clark, Chicago, Ill. Polishing wooden s	280,520	July 3	224	59	24	40
e, Levi R., Marseilles, assignor of one-half to J. Smith, Chicago, Ill. Folding iron-able	282,469	July 31	2705	744	24	491
el, John E. (See Mechem, Oliver H., assignor.)						
on, General W., Washington township, Keokuk county, Iowa. Locking-nut	289,146	Nov. 27	1694	470	25	827
on, Joseph C. (See Hurd, Lorenzo D., assignor.)						
l, Edward, Philadelphia, Pa. Conduit for traction-rope railways	281,562	July 17	1525	418	24	280
l, Edward, Philadelphia, Pa. Conduit for traction-rope railways	282,783	Aug. 7	370	105	24	565
l, Leopold S., Newark, N. J. Card for book-marks and for advertising mediums	289,566	Dec. 4	246	69	25	930
rn, Albert A., Newark, N. J., assignor to Celluloid Manufacturing Company, New k, N. Y. Collar or cuff of celluloid	288,955	Nov. 20	1460	403	25	779
rn, Albion I., San Francisco, Cal. Wood-turning lathe	271,368	Jan. 30	1917	554	23	385
rn, Albion I., San Francisco, Cal. Cutter for wood-working machines	282,671	Aug. 7	235	68	24	540
rn, Gustavus B., Bristol, N. H. Split pulley	275,947	Apr. 17	1397	385	23	1482
rn, Joseph W., Kingston, N. H. Joint for boat-knees, &c	287,057	Oct. 23	1618	446	25	312
rne, Rufus H. (See Boone, Alonzo T., assignor.)						
Albert N., assignor of one-half to O. Hanson, Chicago, Ill. Fire-escape	286,850	Oct. 16	1348	369	25	259
r, Leo. (See Reynolds and Sander.)						
rs, Amos. (See Henderson and Sanders.)						
rs, Eliza. (See Kinn, Friedrich, assignor.)						
rs, Eliza. (See Sanders, Louis, assignor.)						
rs, Euclid. (See Lewis and Sanders.)						
rs, John E., assignor to R. R. Rouse Manufacturing Company, Indianapolis, Ind. plate	277,163	May 8	828	219	23	1774
rs, John E., assignor of one-half to R. R. Rouse, Indianapolis, Ind. Pipe-threading ine	286,333	Oct. 9	705	187, 188	25	138
rs, Louis, assignor to E. Sanders, New York, N. Y. Bag or satchel	288,495	Nov. 13	898	244	25	671
rs, Michael F., Green Garden, Ill. Bundle holder and dropper for grain-binders	273,317	Mar. 6	97	29	23	850
rs, Newell, Chattanooga, Tenn. Evaporating-pan	281,563	July 17	1526	418, 419	24	280
rs, Newell, Chattanooga, Tenn. Bolt for plows	281,564	July 17	1527	419	24	280
rs, William H., Frankfort, Ill. Device for handling, &c., tombstones and monu-ts	279,191	June 12	728	199	23	2257
rson, Charles M., assignor of one-half to G. N. Goodspeed, Winchendon, Mass. Ro-engine	273,162	Feb. 27	1999	562	23	811
rson, Frederick, Friend, Nebr. Cloth-measuring machine	272,483	Feb. 20	1133	318	23	653

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sanderson, Henry S., New York, N. Y., and E. B. Simmons, Jersey City, N. J. Picture-exhibitor	279,504	June 12	1116	308	23	2288
Sanderson, J. Gardner, Scranton, Pa. Insulating electrical conductors	276,291	May 1	457	122	23	1707
Sanderson, James G. (See Crane and Sanderson.)						
Sanderson, Richard W. B. (See Ashbury, Sumner, Lees, and Sanderson.)						
Sanderson, Richard W. B., *et al.* (See Sumner, Herbert, assignor.)						
Sanderson, Robert N., Ashtabula, Ohio. Device for attaching hoisting-buckets to belts	271,743	Feb. 6	190	53	23	473
Sandford, James A. (See Burdick and Sandford.)						
Sandiford, William, Joliet, Ill. Portable drill	287,866	Nov. 6	92	27, 28	25	594
Sandland, Capron & Co. (See Lettré, Philipp, assignor.)						
Sandling, Nelson P., Indianapolis, Ind. Coat	284,070	Aug. 28	1959	546	24	877
Sands, James H., Houston, Tex. Combination-level	279,443	June 12	1046	290	23	2289
Sands, Thomas, Nashua, N. H. Ice-cream freezer	275,418	Apr. 10	796	193	23	1359
Sandusky Plow Company. (See Smith and Lockwood, assignors.)						
Sandwich, Walter D., Montgomery, Ala. Car-coupling	275,948	Apr. 17	1398	385	23	1492
Sanford, Aaron C., assignor of one-half to G. W. Sanford, New Haven, Conn. Clock-bell	279,022	June 5	498	135	23	2288
Sanford, Albert, Oshkosh, Wis. Grapple	283,422	Aug. 21	1155	327	24	721
Sanford, Charles E., Brooklyn, N. Y. Watchman's register	285,932	Oct. 2	198	56	25	38
Sanford, Gelston, Brooklyn, and S. P. Smith, assignors to Sanford Universal Fibre Company, New York, N. Y. Machine for obtaining or treating fibers, &c	280,671	July 3	409	111	24	71
Sanford, Gelston, Brooklyn, N. Y., assignor, by mesne assignments, to International Fibre and Juice Extracting Company of New York. Machine for reducing substances and extracting juices	285,165	Sept. 18	1945	349	24	1131
Sanford, Gelston, Brooklyn, N. Y., assignor, by mesne assignments, to International Fibre and Juice Extracting Company of New York. Machine for reducing substances and extracting juices	285,166	Sept. 18	1946	349, 350	24	1131
Sanford, George W. (See Sanford, Aaron C., assignor.)						
Sanford, James M. (See Tilley and Sanford.)						
Sanford, O. B., *et al.* (See Held, August S., assignor.)						
Sanford Universal Fibre Company. (See Sanford and Smith, assignors.)						
Sangster, William. (See Williams and Sangster.)						
Sanguinetti, Charles A. (See Bang and Sanguinetti.)						
Sankey, Eben B. (See Peace and Sankey.)						
Sanlaville, Marc E., and R. Laligant, Quincié, France. Manufacture of explosive compounds	281,565	July 17	1527	.....	24	280
Santley, William R., Wellington, Ohio. Belt-shifter	285,683	Sept. 25	1855	589	24	1949
Sargeant, Abraham V. (See Brant, John D., Jr., assignor.)						
Sargeant, E. Eugene, Newark, N. J. Bridle-bit	289,452	Dec. 4	94	27	25	903
Sargeant, Samuel S., Newark, N. J. Harness buckle	285,434	Sept. 25	1565	441	24	1194
Sargent, Adelbert F., Geneseo, Ill. Two-wheeled vehicle	273,610	Mar. 6	476	128	23	915
Sargent, Allan C. (See Sargent, Frederick G. and A. C.)						
Sargent & Co. (See Bradford, Purmort, assignor.)						
Sargent & Co. (See Pullman, Herbert S., assignor.)						
Sargent & Co. (See Sargent, Edward R., assignor.)						
Sargent & Co. (See Sargent, George H., assignor.)						
Sargent & Co. (See Scranton, Worthington, assignor.)						
Sargent & Co. (See Tanner, Alfred B., assignor.)						
Sargent, Edward R., assignor to Sargent & Co., New Haven, Conn. Casket-lid catch	272,333	Feb. 13	926	257	23	613
Sargent, Frederick G., Graniteville, Mass. Burring-machine	270,988	Jan. 23	1441	415	23	297
Sargent, Frederick G. and A. C., Graniteville, Mass. Plate-holder for photographers' cameras	289,029	Nov. 27	1555	429	25	802
Sargent, George F., New York, N. Y. Invalid-bedstead	274,392	Mar. 20	1477	406	23	1104
Sargent, George H., New York, N. Y., assignor to Sargent & Co., New Haven, Conn. Hasp-hook	290,119	Dec. 11	925	263	25	1058
Sargent, James, *et al.* (See Pfaudler, John M., assignor.) (Reissue.)						
Sargent, James, Rochester, N. Y. Apparatus for fermenting and clarifying beer, wine, &c	276,635	May 1	112	30	23	1646
Sargent, James, Rochester, N. Y. Lock-faucet	286,077	Oct. 2	366	101	25	67
Sargent, John Q. A., Manchester, N. H. Invalid-bedstead	270,912	Jan. 23	1343	387	23	281
Sargent, Joseph B., New Haven, Conn. Coffin-ornament	290,118	Dec. 11	924	262	25	1058
Sargent, Joseph F., assignor of one-half to H. W. Mason, Worcester, Mass. Brush for bronzing and for other purposes	274,978	Apr. 3	122	34	23	1947
Sargent, Samuel R., Terre Haute, Ind. Sewing-machine	284,071	Aug. 28	1960	546	24	877
Sargent, Samuel R., Terre Haute, Ind. Sewing-machine	287,867	Nov. 6	93	28	25	594
Sargent, Samuel R., Terre Haute, Ind. Sewing machine	287,868	Nov. 6	95	29	25	594
Sargent, Samuel R., Terre Haute, Ind. Sewing-machine	287,869	Nov. 6	97	29	25	595
Sargent, Willard E., Newark, N. J. Making tubes from celluloid and other plastic material	270,342	Jan. 9	614	180	23	130
Sargood, George, and F. L. Hemmer, East Arlington, Vt. Journal-box	276,195	Apr. 24	1704	470	23	1542
Sarlls, Rufus, and V. C. Holland, Gainesville, Tex. Permutation-lock	276,081	Apr. 17	1557	429	23	1509
Sarlls, Rufus, and V. C. Holland, Gainesville, Tex. Permutation-lock	276,477	Apr. 24	2062	572	23	1603
Sarre, Heinrich, *et al.* (See Brandl, Gotthard, assignor.)						
Sater, Hans H., Dubuque, Iowa. Cultivator	276,718	May 1	242	61	23	1666
Sater, Hans H., Dubuque, Iowa. Cultivator	278,366	May 29	2311	632	23	2052
Satrang, Oley A., Rothsay, Minn. Clod-crusher	281,303	July 17	1204	333	24	296
Sattler, Henry, Rock Hill, Mo. Wheel-plow	285,766	Sept. 25	1969	558	24	1967
Saunders, Ellison, *et al.* (See Lanten, Frank H., assignor.)						
Saunders, Ira J., Union City, Mich. Fastener for shoes, &c	282,571	Aug. 7	118	35	24	521
Saunders, Luther A., and J. S. Funkhouser, Mount Crawford, Va. Gate-latch	275,082	Apr. 3	268	73	23	1272
Saunders, William L., Jersey City, N. J. Drilling apparatus	270,488	Jan. 9	798	233	23	166
Saunderson, John H., Trenton, N. J. Carburetor	288,868	Nov. 20	1351	371	25	758
Sauser, Elias, and M. Haller, Cincinnati, Ohio. Device for cooling beer	289,717	Dec. 4	437	122	25	963
Sauter, Charles, assignor to C. O. Dryden and N. Palmer, Baltimore, Md. Crystallizing-pan for rock-candy	272,905	Feb. 27	1690	473	23	757
Sauter, Edward, Hartford, Conn. Caliper-gage	285,684	Sept. 25	1856	530	24	1949
Savage, Alfred, Salem, Oreg. Cord grasper and cutter for grain-binders	274,828	Mar. 27	2027	564	23	1207
Savage, Alonzo H., Ashtabula, Ohio. Button	272,586	Feb. 20	1265	352	23	676
Savage, John P., Scotland Neck, N. C. Dumping-wagon	281,141	July 10	991	277	24	181
Savage, John T., and J. Love, Rockford, Ill. Dumping-platform. (Reissue)	10,389	Oct. 2	470	129	25	88
Savitz, Charles J., Allentown, Pa. Fire-escape	288,122	Nov. 6	409	116	25	579
Savoie, Joseph, St. Marcel, Quebec, assignor to E. and L. Brisson, St. Germain de Grantham, Canada. Door-lock	281,142	July 10	991	277	24	182
Savoye-Keller, Alexandre, Locle, Switzerland. Stem-winding watch	274,613	Mar. 27	1782	495	23	1163
Sawtell, La Fayette, Lena, assignor of three-fourths to A. P. Johnson and W. Sawtell, Mooseville, Ill. Fire-escape	287,058	Oct. 23	1619	446	25	313
Sawtell, Wilson, *et al.* (See Sawtell, La Fayette, assignor.)						
Sawyer, Allen J., C. Woodbury, and E. Lane, Oldtown, Me. Lantern	281,797	July 24	1847	505	24	340

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Benjamin F., Rome, assignor to American Bag Company, Atlanta, Ga. Bag-e	271,922	Feb. 6	412	111, 112, 113	23	513
Charles H. (See Vanstone, Samuel, assignor.)						
Francis A., Boston, Mass. Carriage-step	287,870	Nov. 6	100	29, 30	25	525
Lodowick L. (See Buckley and Sawyer.)						
Lodowick L., Meriden, Conn. Spring-roller for curtains	287,729	Oct. 30	2485	670	25	482
Lodowick L., Meriden, Conn. Spring-roller for curtains	288,123	Nov. 6	410	116	25	579
James, Freeburg, Ill., assignor of one-half to W. De Bolt, St. Louis, Mo. Mine ulator	283,286	Aug. 14	976	272	24	682
pindle Company. (See Birkenhead, John, assignor.) (Reissue.)						
pindle Company. (See Gray, James R., assignor.)						
Sylvanus, Fitchburg, Mass. Watch-maker's lathe	280,867	July 10	657	185	24	123
Sylvester, assignor to J. Hay, Sr., and J. Hay, Jr., Woodstock, Ontario, Canada. e for scraping and splitting rattan	284,241	Sept. 4	108	30	24	923
Walter H., Fort Valley, Ga. Cotton cleaner and condenser	286,334	Oct. 9	706	188	25	138
Willard W., Springfield, Mass. Hand stamp	287,177	Oct. 23	1769	485	25	341
William A., Danversport, assignor of two-fifths to A. B. Claflin, Newtonville, Mass. e for measuring the areas of surfaces	269,962	Jan. 2	167	48	23	35
William A., Danversport, assignor of two-fifths to A. B. Claflin, Newtonville, Mass. e for measuring the areas of surfaces	286,078	Oct. 2	368	102	25	67
William H., Providence, R. I. Electric cable	280,521	July 3	225	59	24	40
William H., assignor of one-half to E. F. Phillips, Providence, R. I. Automatic -circuit opener	279,023	June 5	499	136	23	2208
m L., Waterbury, Conn. Riveting-machine	287,730	Oct. 30	2487	670	25	482
Edward H. (See Thompson, Robert W., assignor.)						
Henry, *et al.* (See Yerby and Stilson, assignors.)						
James, *et al.* (See Yerby and Stilson, assignors.)						
Tyron A., Wichita, Kans. Device for converting motion	271,132	Jan. 23	1609	462	23	324
Tyron A., and T. J. Brook, Wichita, Kans. Combined water-supply and wind-ulator	271,133	Jan. 23	1610	463	23	324
wis G., Mount Healthy, Ohio. Two-wheeled vehicle	281,304	July 17	1204	333	24	226
Charles A., assignor of one-third to J. G. Smith, Charleston, S. C. Rock-breaker dger	290,482	Dec. 18	1400	386, 387	25	1149
John, Poughkeepsie, assignor to himself and D. Holt, Albany, N. Y. Car-door ig	289,963	Jan. 2	168	49	23	35
Mortimer, and J. T. Hough, Chicago, Ill. Portable grain elevator and weigher	271,134	Jan. 23	1610	463	23	325
William, Brooklyn, N. Y. Car-door track	283,151	Aug. 14	805	225	24	649
eorge R., Knoxville, Tenn. Furnace	270,989	Jan. 23	1492	416	23	297
eorge R., Knoxville, Tenn. Machine for forming coffee-pot spouts and the like	279,602	June 19	1237	343	23	2348
Walter, *et al.* (See Griest, John M., assignor.)						
od, Charles F., Albany, N. Y. Starching goods	284,963	Sept. 11	1004	283	24	1084
lbert E., Buffalo, N. Y. Ball-bearing for bicycles	287,476	Oct. 30	2146	583	25	417
Charles H., Alexandria, Va. Car-coupling	278,605	May 29	2591	707, 708	23	2101
Alexander K., Richmond, Va. Mask for base-ball catchers	287,331	Oct. 23	1963	536	25	375
Henry P., Schulenburg, Tex. Feed-governor for cotton-gins	289,718	Dec. 4	439	123	25	963
Louis W., Brooklyn, N. Y. Car-lamp	285,364	Sept. 18	1474	414	24	1172
William. (See Cabell, Milton S., assignor.)						
& Budenberg. (See Grüdelbach, Paul, assignor.)						
Lester A., assignor of two-thirds to W. A. Halteman and W. G. Olwin, Dayton, Hand-rake	289,567	Dec. 4	247	69	25	930
Julius, assignor of two-thirds to E. S. Wayne and J. B. Holman, Cincinnati, Ohio. center-pinion for watches	286,851	Oct. 16	1349	369	25	260
Julius, assignor of two-thirds to E. S. Wayne and J. B. Holman, Cincinnati, Ohio. inding watch	286,852	Oct. 16	1350	370	25	260
rnold, Phenix, R. I. Evener for railway-heads	287,585	Oct. 30	2298	621, 622	25	447
Christian. (See Roberts and Schafer.)						
Joseph D, De Soto, assignor to Excelsior Manufacturing Company, St. Louis, Mo. dering apparatus	283,821	Aug. 28	1638	461	24	821
May S., Chicago, Ill. Pattern for cutting dress-patterns	287,731	Oct. 30	2491	670, 671	25	483
& Budenberg. (See Prüsmann, Carl H., assignor.)						
Jacob, and A. Spanier, Dyer, Ind. End-gate	279,444	June 12	1047	290	23	2310
John T., Rochester, N. Y. Car-buffer	278,606	May 29	2593	708	23	2101
John L., assignor of one-half to T. Martin, Washington, D. C. Eaves-trough	274,393	Mar. 20	1479	406	23	1104
s, Jean, New York, N. Y. Swimming beer-cooler	280,405	July 3	81	22	24	17
eorge A. (See Henry, John J., assignor.)						
Henry. (See Wagner, Michael, assignor.)						
George, and J. B. Weigman, Baltimore, Md. Adhesive paste	274,979	Apr. 3	123	.....	23	1247
regory H., Toledo, Ohio. Machine for forming tag-holders	282,027	Aug. 14	662	186	24	625
berg, Eduard, Streator, Ill. Beer pump and preserver	271,659	Feb. 6	89	24	23	456
ber, August, Davenport, Iowa. Washing-machine	271,369	Jan. 30	1918	554, 555	23	386
ber, William, Jefferson, assignor of one-half to A. Horner, Chicago, Ill. Fasten-car-doors	270,252	Jan. 9	504	148	23	109
ber, William, Jefferson, assignor of one-half to F. K. Bowes, Chicago, Ill. Car-seal	280,086	June 26	1821	513	23	2457
hausen, Lewis B., Des Plaines, Ill. Trace-loop for harness	273,163	Feb. 27	2000	563	23	812
Adolph. (See Facer and Schaub.)						
Louis. (See Scott, Schaub, and Fenrhake.)						
n, Fridolf, Landskrona, Sweden. Permanent way for railways	279,280	June 12	826	229	23	2275
z, Moses. (See Thoens, Burchard, assignor.)						
ndrew, Cleveland, Ohio. Washing-machine	273,611	Mar. 6	477	128	23	916
, Adolf. (See Scheibler, Samuel and A.)						
, Carl, Berlin, Germany. Obtaining phosphatic fertilizers from basic iron slag	279,445	June 12	1048	.....	23	2310
, Carl, Berlin, Germany. Separating sugar from molasses, sirups, &c	279,446	June 12	1050	.....	23	2310
, Samuel and A., Memphis, Tenn. Extracting oil from cotton-seed	281,566	July 17	1529	.....	24	280
erger, Charles G., Terre Haute, Ind., assignor to himself and C. Geiger, Streator, atch-maker's pliers	273,612	Mar. 6	478	128	23	916
red, Jr., Ballwin, Mo. Spring for two-wheeled vehicles	285,167	Sept. 18	1248	350	24	1132
Robert C., *et al.* (See Wiard, Norman, assignor.)						
Frederik. (See Zeltner and Schenk.)						
Andrew G. (See Hall, Lewis, assignor.)						
Jass B., Cicero, Ind. Band-cutter and feeder	289,030	Nov. 27	1556	429, 430	25	802

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Scherer, William, W. Moll, and J. A. Marsh, Cleveland, Ohio; said Scherer and Moll assignors to said Marsh. Vapor-burner	270,253	Jan. 9	506	149	23	109
Scherff, Edward, Wendisch Buchholz, Prussia, Germany. Preserving milk	277,352	May 8	1044	.....	23	1812
Scherling, Conrad, Guttenberg, Iowa. Bridle-bit	290,803	Dec. 25	1827	504	25	1230
Scherling, Rudolph C., assignor of one-half to St. Nicholas Toy Company, Chicago, Ill. Backbone-coupling for bicycles	285,685	Sept. 25	1857	530	24	1249
Schermerhorn, Abram L., *et al.* (See Burns and Buckman, assignors.) (Reissue.)						
Schermerhorn, Herschel A., assignor to W. L. Colton, Waterman, A. L. Baker, and W. Egermann, Aurora, Ill. Neck-yoke	275,714	Apr. 10	1100	300	23	1422
Schertz, B. F. (See Koch, Henry, assignor.)						
Scheuer, Simon, New York, N. Y. Satchel	273,398	Mar. 6	207	56	23	969
Schiele & Co., Louis. (See Stronse, Isaac, assignor.)						
Schifferle, Fridolin, St. Louis, Mo. Culinary vessel	271,744	Feb. 6	191	53	23	473
Schifferle, Fridolin, St. Louis, Mo. Culinary vessel	271,745	Feb. 6	192	53	23	473
Schild, George F., Vallejo, Cal. Caisson-gate	287,178	Oct. 23	1771	485, 486	25	341
Schiller, Charles, Baltimore, Md. Apparatus for treating offal	287,967	Nov. 6	224	64	25	546
Schiller, Charles J., assignor to American Brake Company, St. Louis, Mo. Locomotive-brake	283,028	Aug. 14	663	187	24	625
Schiller, John G., assignor of one-half to J. W. Smith, Youngstown, Ohio. Car-brake	282,672	Aug. 7	235	68	24	540
Schirling, John, and A. A. Massar, Pomeroy, Ohio. Door-lock	289,031	Nov. 27	1558	430	25	803
Schilling, Nicolaus H., and H. Bunte, Munich, Bavaria, assignors to Stettiner Chamotte-fabrik Actiengesellschaft, Stettin, Germany. Gas-generator stove	274,829	Mar. 27	2028	564, 565	23	1207
Schilling, William, New Orleans, La. Hand-loom	276,478	Apr. 24	2063	573	23	1604
Schilling, William, assignor to D. Campbell and W. Hughes, Philadelphia, Pa. Screw	272,778	Feb. 20	1505	424	23	719
Schillinger, John J., New York, N. Y. Mold for casting building-blocks	277,791	May 15	1502	425, 426	23	1908
Schimansky, Otto, Oak Harbor, Ohio. Wagon-standard	286,335	Oct. 9	707	188	25	138
Schimmel, Gustavus R., Detroit, Mich. Tooth-pick package	281,731	July 24	1756	476	24	323
Schincke, August. (See Cornell and Schincke.)						
Schindler, Adolf, Schweidnitz, Prussia, Germany. Lantern	284,072	Aug. 28	1961	546	24	877
Schindler, Herman H. (See Meyer, Ernest F., assignor.)						
Schindler, Jacob, Koeltztown, Mo. Harrow	289,860	Dec. 11	612	170	25	1001
Schinke, Carl, assignor to St. Louis Iron and Machine Works, St. Louis, Mo. Valve-gear for steam-engines	280,672	July 3	402	112	24	71
Schinke, Carl, assignor to St. Louis Iron and Machine Works, St. Louis, Mo. Wrench	280,673	July 3	403	112	24	71
Schirer, August, assignor of one-half to O. Bruss, Milwaukee, Wis. Salve	273,613	Mar. 6	479	.....	23	916
Schlaefli, Jean P. A., Soleure, Switzerland. Electric clock	288,496	Nov. 13	808	244	25	672
Schlechte, Louis, St. Louis, Mo. Shutter-fastener	273,164	Feb. 27	2001	563	23	812
Schlechter, Gustavus A., Reading, Pa. Suspension-hook	285,435	Sept. 25	1566	441	24	1194
Schlegel, John, *et al.* (See Nies, Phillip, assignor.)						
Schleicher, Adolph W., Philadelphia, Pa. Lathe-slide-feeding device	274,394	Mar. 20	1480	406	23	1104
Schleier, Clara A., Brooklyn, N. Y. Stocking-protector	280,522	July 3	226	60	24	40
Schleissner, Morris, New York, N. Y. Picture-exhibitor	281,143	July 10	992	277	24	182
Schlesinger & Co., Leo. (See Carr, Sydney H., assignor.)						
Schlesinger & Co., Leo. (See Lesson, Philip, assignor.)						
Schlesinger, Sigmund. (See Pike and Schlesinger.)						
Schlickeysen, Carl F., Berlin, Germany. Brick-molding machine	275,715	Apr. 10	1100	301	23	1422
Schlinck, Heinrich, Ludwigshafen-on-the-Main, Germany. Purifying fatty oils and fats	278,187	May 22	2046	.....	23	1998
Schloerb, Theodore, *et al.* (See Miller, Charles C., assignor.)						
Schlosser, E. Frank, Hoboken, N. J. Galvanic battery	282,784	Aug. 7	371	105	24	565
Schlott, John H. (See Moran, William J., assignor.)						
Schlotterhoss, Richard, Vienna, Austria-Hungary. Photographic exposing apparatus	284,073	Aug. 28	1962	547	24	877
Schlueter, Adolph H., San Francisco, Cal. Lighting device for lamps	270,849	Jan. 16	1261	363	23	961
Schlueter, Frederick, New York, N. Y. Game-table	290,360	Dec. 18	1228	345	25	1119
Schlüter, Rudolph, assignor of one-half to O. Wessell, New York, N. Y. Gas-retort furnace	275,276	Apr. 3	502	138, 139	23	1312
Schmachtenberger, Ottomer, assignor of one-half to E. Summers, Marshall, Ill. Machine for pointing fence-pickets	273,614	Mar. 6	480	129	23	916
Schmadel, John. (See Kitt and Schmadel.)						
Schmelter, John, assignor of one-fourth to M. Stolz, Detroit, Mich. Car-axle box	280,087	June 26	1892	513	23	2457
Schmetzer, Louis, Rothenburg-on-the-Tauber, Bavaria, Germany. Velocipede	271,524	Jan. 30	2114	608	23	421
Schmetzer, Louis, Rothenburg-on-the-Tauber, Bavaria, Germany. Carriage-top	272,779	Feb. 20	1505	424	23	719
Schmetzer, Louis, Rothenburg-on-the-Tauber, Bavaria, Germany. Carriage-top	276,288	Apr. 24	1815	505	23	1561
Schmetzer, Louis, Rothenburg-on-the-Tauber, Bavaria, Germany. Child's chair	278,826	June 5	204	60	23	2158
Schmid, Albert, Zurich, Switzerland. Fluid-meter	288,869	Nov. 20	1353	371, 372	25	758
Schmid, Michael. (See Moeller and Schmid.)						
Schmid, William, Brooklyn, assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic camera	270,133	Jan. 2	358	104	23	73
Schmidt, Augustus E. (See Hatch, Anson, assignor.)						
Schmidt, Chris, assignor to M. Schmidt, Burlington, Iowa. Meat-chopper	271,135	Jan. 23	1612	464	23	325
Schmidt, Christian, assignor of three-fourths to F. Liesenhoff, A. Silberman, and J. Stocker, Miamisburg, Ohio. Sickle-bar for harvesters	271,923	Feb. 6	416	113	23	513
Schmidt, Christian A., New York, N. Y. Rotating sample-stand	288,870	Nov. 20	1355	372	25	759
Schmidt, Constantin. (See Reissig, Wilhelm, assignor.)						
Schmidt, Erwin, Leipsic, Saxony, Germany. Turning chair	286,641	Oct. 16	1083	292	25	219
Schmidt, Frederick, New York, N. Y. Wardrobe-bedstead	281,144	July 10	993	277	24	182
Schmidt, Friedrich E., Brooklyn, N. Y. Button-hole sewing-machine	272,160	Feb. 13	715	196, 197	23	575
Schmidt, Friedrich E., Brooklyn, N. Y. Button-hole sewing-machine	273,318	Mar. 6	97	29	23	650
Schmidt, Hermann, Berlin, Germany. Ironing-machine	289,148	Nov. 27	1696	470, 471	25	827
Schmidt, Hugo, Chicago, Ill. Show-rack for watches	270,134	Jan. 2	360	105	23	73
Schmidt, John C., Westfield, Mass. Manufacture of whips	281,305	July 17	1206	333	24	227
Schmidt, Max, and C. Rahskopff, San Francisco, Cal. Automatic hanging-up attachment for label-varnishing machines	278,607	May 29	2594	708	23	2102
Schmidt, Mollie. (See Schmidt, Chris, assignor.)						
Schmidt, Oscar, *et al.* (See Kraker, Michael, assignor.)						
Schmiedtzinsky, Carl. (See Dieckmann and Schmiedtzinsky.)						
Schmitt, Bernard, New York, N. Y. Glove-sewing machine	270,343	Jan. 9	615	180, 181	23	130
Schmitt, Bertha, Brooklyn, N. Y. Window-guard	276,082	Apr. 17	1558	429	23	1509
Schmitt, Emile, Cincinnati, Ohio. Method of and apparatus for manufacturing fermented liquors	277,065	May 8	701	182	23	1752
Schmitt, Jacob, East Cleveland, Ohio. Fastening for wagon end-gates	285,078	Sept. 18	1135	317	24	1113

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Schmittknecht, John, New York, N. Y. Fire-escape	280,568	Dec. 4	248	70	25	931
Schmitz, Edward, Winsted, Conn. Vegetable grinder and slicer	290,120	Dec. 11	926	263	25	1058
Schmitz, Frank, and J. Mills, Cornell, Ill. Paper-file	283,667	Aug. 21	1437	402	24	773
Schmitz, Theodore H., assignor to H. D. Justi, Philadelphia, Pa. Cuspidor-holder	277,353	May 8	1044	280	23	1812
Schmoele, Henry, Philadelphia, Pa. Music-roll	272,090	Feb. 13	629	171	23	560
Schmoele, Henry, Philadelphia, Pa. Button-fastener	272,587	Feb. 20	1266	353	23	676
Schmolz, William, San Francisco, Cal. Fan-wheel	279,603	June 19	1238	343	23	2348
Schmolz, William, San Francisco, Cal. Ventilator	287,477	Oct. 30	2147	584	25	418
Schmolz, William, San Francisco, Cal. Fruit-drier	288,124	Nov. 6	412	116	25	580
Schneebeli, Gustav A., New Philadelphia, Ohio. Blasting-cartridge	273,399	Mar. 6	208	56	23	869
Schneer, Isaac, New York, N. Y. Shirt	274,520	Mar. 27	1670	463	23	1143
Schneer, Isaac, New York, N. Y. Jacket	274,521	Mar. 27	1670	464	23	1143
Schneible, Joseph, assignor of one-half to P. B. Mathiason, St. Louis, Mo. Glue cutting and spreading machine	282,930	Aug. 7	536	151	24	596
Schneider, Bennett B. (See Dette, Wilhelm, assignor.)						
Schneider, Frank, Syracuse, N. Y. Measure and weigher combined	281,567	July 17	1529	419	24	280
Schneider, Henry H., assignor to himself and W. Bertsch, Port Clinton, Ohio. Rocking attachment for chairs	277,617	May 15	1362	367	23	1871
Schneider, John C., Hudson, Wis. Thrashing-machine	274,395	Mar. 20	1480	407	23	1105
Schneider, John H., Middletown, Conn. Boot or shoe tree	270,850	Jan. 16	1262	363	23	261
Schneider, John H., Middletown, Conn. Boot and shoe tree	288,185	Nov. 6	483	134	25	591
Schneider, Philipp, Hamburg, Germany. Copying-press	271,525	Jan. 30	2116	608	23	421
Schneller, George O., Ansonia, Conn. Button-press	286,019	Oct. 2	369	102	25	68
Schnier, Anthony, and S. R. Smith, Cincinnati, Ohio. Steam-engine	276,479	Apr. 24	2064	573	23	1604
Schnitzler, Emma. (See Streisguth and Schneitzler.)						
Schoch, Caspar, Truckee, Cal. Saw-mill carriage	274,227	Mar. 20	1265	349	23	1067
Schoch, Caspar, Truckee, Cal. Extension-shank for bits	281,568	July 17	1530	419	24	280
Schoch, David A., and H. W. Bolender, Orangeville, Ill. Churn	279,447	June 12	1051	290	23	2310
Schock, Benedict, Cincinnati, Ohio. Bung and vent-tube for kegs	275,790	Apr. 10	1203	329	23	1439
Schoellkopf & Co. (See Hoffman, William M., assignor.)						
Schoenberg, Gabriel N., Boulogne, near Paris, France. Friction-clutch	277,066	May 8	702	183	23	1752
Schoenfeld, David, *et al.* (See Wurth, Charles N., assignor.)						
Schoenfeld, Louis, assignor of one-half to G. Busse, St. Louis, Mo. Toy	271,278	Jan. 30	1790	519	23	363
Schoenfeld, Max, *et al.* (See Wurth, Charles N., assignor.)						
Schoenhof, Jacob, New York, N. Y. Pannier and bustle	273,165	Feb. 27	2002	563	23	812
Schoening, Charles J., Chicago, Ill. Tea-kettle	283,287	Aug. 14	977	273	24	682
Schoeninger, Adolph, Chicago, Ill. Crutch	288,368	Nov. 13	735	199	25	643
Schoenthaler, John C. (See Berninghaus, Edmund O., assignor.)						
Schoenthaler, John C., St. Louis, Mo. Packing-box for bottles	276,280	Apr. 24	1816	506	23	1562
Schoettel, Edward A., Brooklyn, N. Y. Telephone-transmitter	271,924	Feb. 6	417	113	23	513
Schofield, George. (See Mason, Smalley, and Schofield.)						
Schofield, Henry. (See Marsden and Schofield.)						
Schofield, James, New York, N. Y. Speed-accelerator	282,228	July 31	2399	660	24	439
Schofield, John, South River, N. J. Signal-car for railway-trains	280,523	July 3	228	60	24	40
Schofield, Richard, assignor to J. Penman, Paris, Ontario, Canada. Knitting stockings	288,186	Nov. 6	484	134	25	592
Schofield, Silas C. (See Shaver and Schofield.)						
Schofield, Silas C., Freeport, Ill. Grinding-mill	283,518	Aug. 21	1369	355	24	741
Schofield, Silas C., assignor to Freeport Machine Company, Freeport, Ill. Grinding-mill	272,334	Feb. 13	927	258	23	613
Scholes, Richard J., *et al.* (See Wohnlich, Louis J., assignor.)						
Scholl, Michael, San Francisco, Cal. Fire-escape	284,763	Sept. 11	748	207	24	1037
Scholl, Nicholas, Chillicothe, Ohio. Ironing-stand	272,906	Feb. 27	1691	473	23	757
Schollhorn & Tiesing Manufacturing Company. (See Doyle, John J., assignor.)						
Schön, Chr. A. W. (See Leuffgen, George, assignor.)						
Schönheyder, William, Shepherd's Bush, London England. Device for fastening drawing-paper to drawing-boards	284,334	Sept. 4	216	60	24	941
Schönheyder, William A. G., Shepherd's Bush, county of Middlesex, England. Stove	270,135	Jan. 2	360	105	23	73
Schonhoff, Bernard H., Cape Girardeau, Mo. Shoal-indicator for ships	275,864	Apr. 17	1304	358	23	1464
Schoof, Bruno, Wiesbaden, Prussia, Germany. Closet-paper holder	282,785	Aug. 7	372	105	24	565
Schooley, Andrew, Litchfield, N. Y. Crosscut-saw frame	286,966	Oct. 16	1494	411	25	284
Schoonmaker, Elon, assignor to Jumbo Patent Glove Company, Littleton, N. H. Glove and mitten	289,792	Dec. 4	519	144	25	976
Schoonmaker, James W., assignor of one-half to W. E. Milbank, Albany, N. Y. Permutation-lock	272,982	Feb. 27	1776	497	23	771
Schoonover, Leander W., and J. Afflerbach, Perth Amboy, N. J. Revolving car-signal	279,821	June 19	1485	416	23	2391
Schorr, John W., St. Louis, Mo. Apparatus for cooling beer, &c	274,830	Mar. 27	2030	565	23	1208
Schott, Anton, Franklin Grove, Ill. Cultivator	283,926	Aug. 28	1760	497	24	842
Schott, Emil, assignor to L. & S. Sternberger, Philadelphia, Pa. Machine for cutting shirt-bosoms	271,925	Feb. 6	417	113	23	513
Schott, Julius. (See Armour and Schott.)						
Schrack, Christian H., New York, N. Y. Plumber's portable furnace	280,245	June 26	2003	563	23	2489
Schrack, John. (See Collins, Charles R., assignor.)						
Schrag, Philip, New York, assignor to E. Faber, Port Richmond, N. Y. Point-protecting attachment to lead or crayon holders	271,136	Jan. 23	1613	464	23	325
Schrag, Philip, New York, assignor to E. Faber, Port Richmond, N. Y. Lead and crayon holder	271,926	Feb. 6	418	114	23	514
Schrag, Philip, New York, assignor to E. Faber, Port Richmond, N. Y. Pen-holder	273,615	Mar. 6	480	129	23	916
Schramm, Carl F. W., Brooklyn, N. Y. Windmill	282,122	July 31	2266	621	24	416
Schrebler, Charles, Chambersburg, Pa. Egg-beater	276,290	Apr. 24	1817	506	23	1562
Schrebler, Charles, Chambersburg, Pa. Card-grinding machine	278,608	May 29	2596	708	23	2102
Schrebler, Charles, Chambersburg, Pa. Vegetable-cutter	278,827	June 5	305	60, 61	23	2158
Schreiber, Charles W., assignor of two-thirds to F. Robinson and J. S. Morgan, Dubuque, Iowa. Drive-well	273,166	Feb. 27	2003	563	23	812
Schreiber, Josef, Vienna, Austria-Hungary. Steam-motor boiler	281,401	July 17	1326	367	24	246
Schreidt, Frank, Mansfield, Ohio. Vehicle shifting-rail	280,674	July 3	403	113	24	72
Schreidt, Frank, Mansfield, Ohio. Shifting-rail for vehicles	288,597	Nov. 13	1018	279	25	694
Schrepel, Loui, Hailey, Idaho Ter. Lasting-tool	289,861	Dec. 11	613	171	25	1001
Schrepferman, Casper, *et al.* (See Caley, Jeremiah, assignor.)						
Schriek, Walter C., Newark, N. J. Whip-lash	273,319	Mar. 6	99	29	23	851
Schriver, Oliver P. (See Conner, Ezra F., assignor.)						
Schröder, Emile, Geneva, Switzerland. Construction of cellars for cooling and ventilation	290,483	Dec. 18	1401	387	25	1149
Schroeder, Richard E., Chicago, Ill. Grain and offal drier	273,767	Mar. 13	691	185	23	960
Schruben, James L., and W. F. Leonard, Lafayette, Ind. Iron wheel	284,074	Aug. 28	1965	547	24	878
Schrum, John. (See Letz, Louis H., assignor.)						
Schubert, Julius O., Parkersburg, W. Va. Testing oils	270,489	Jan. 9	800	233	23	166

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Schubert, Julius O., and V. Bukey, Parkersburg, W. Va. Liquid-tester	290,935	Dec. 25	1991	549	25	1258
Schubert, Maurice, Higginsport, Ohio, assignor of one-half to A. Müller, Dover, Ky. Plow-fender	278,188	May 22	2046	562	23	1998
Schubert, Max J. (See Worden, Oliver E., assignor.)						
Schuch, Mary J., Cincinnati, Ohio. Lamp-extinguisher	272,335	Feb. 13	928	258	23	613
Schuessler, August T., Newark, N. J. Furnace for desulphurizing ores	276,636	May 1	114	30	23	1646
Schuessler, August T., Newark, N. J., assignor of one-half to V. Zeis, New York, N. Y. Treating spent lime from gas-works for cyanides	277,851	May 15	1633	.....	23	1920
Schuett, Henry J. H., Detroit, Mich. Fire-escape	275,083	Apr. 3	269	74	23	1272
Schuett, Henry J. H., Detroit, Mich. Alarm-lock	275,527	Apr. 10	868	234	23	1382
Schuetz, Fritz, Carver, Minn. Time-piece	276,892	May 1	458	123	23	1707
Schuetze, Robert, San Antonio, Tex. Permutation-lock	288,871	Nov. 20	1356	372	25	759
Schülke, Julius, Berlin, Germany. Gas-lamp	275,528	Apr. 10	869	235	23	1382
Schulte, D. B., *et al.* (See Held, August S., assignor.)						
Schultz, Albert T., Zanesville, Ohio. Car-coupling	273,167	Feb. 27	2004	564	23	812
Schultz, Frederick W. (See Banks, William H., assignor.)						
Schultz, Louis, New York, N. Y. Machine for trimming fabrics	273,898	Mar. 13	849	230	23	987
Schultz, Louis, New York, N. Y. Quilting-machine	276,480	Apr. 24	2065	573, 574	23	1604
Schultz, Louis, New York, N. Y. Quilting-machine	281,732	July 24	1756	476, 477, 478	24	324
Schultz, Louis, New York, N. Y. Mechanical movement	288,497	Nov. 13	899	245	25	672
Schultz, Peter T., *et al.* (See Edwards, William F., assignor.)						
Schultze, August J., Galveston, Tex. Water-cooler	274,663	Mar. 27	1438	511	23	1174
Schulze, August, assignor of three-fourths to S. Langsdorf, New York, N. Y. Hand-mirror holder for toilet-cases	275,949	Apr. 17	1399	385	23	1482
Schulze, Hans J. F., New York, N. Y. Roundabout	274,298	Mar. 20	1267	350	23	1068
Schulze, Louis, Philadelphia, Pa. Medicated-vapor bath	290,675	July 3	404	113	24	72
Schulze-Berge, Hermann, assignor of one-half to J. H. Lippincott, Pittsburg, Pa. Etching glassware	276,893	May 1	459	.....	23	1707
Schulze-Berge, Hermann, assignor of one-half to J. H. Lippincott, Pittsburg, Pa. Etching glassware	276,894	May 1	461	.....	23	1707
Schulze-Berge, Hermann, assignor of one-half to J. H. Lippincott, Pittsburg, Pa. Etching glassware	276,895	May 1	463	.....	23	1707
Schulze-Berge, Hermann, assignor of one-half to J. H. Lippincott, Pittsburg, Pa. Decorating glass, china-ware, and similar articles	276,896	May 1	463	.....	23	1707
Schulze-Berge, Hermann, assignor of one-half to J. H. Lippincott, Pittsburg, Pa. Ornamenting glassware	276,897	May 1	465	.....	23	1707
Schulze-Berge, Hermann, assignor of one-half to J. H. Lippincott, Pittsburg, Pa. Process of etching and decorating glassware and device therefor	283,423	Aug. 21	1156	.....	24	721
Schulze-Berge, Hermann, assignor to himself and J. H. Lippincott, Pittsburg, Pa. Crayon for etching glassware	283,424	Aug. 21	1160	.....	24	721
Schumacher, Henry. (See Mann and Schumacher.)						
Schumacher, Ferdinand, Akron, Ohio. Drying grain	281,402	July 17	1327	367, 368	24	247
Schunck, Charles, Green Bay, Wis. Apparatus for regulating the fermentation of beer	276,083	Apr. 17	1559	430	23	1509
Schunk, Henry, assignor to himself, E. Ruff, and C. Christman, Dubuque, Iowa. Rowing-gear for boats	284,984	Sept. 11	1006	284	24	1084
Schurch, Albert, San Francisco, Cal. Adjustable head for milling-machines	283,668	Aug. 21	1437	402	24	774
Schureman, David S., and W. McCulloch, Cincinnati, Ohio. Nut-lock	282,572	Aug. 7	119	35	24	521
Schurr, Johann, J., Pittsburg, Pa. Stern-wheel boat	270,344	Jan. 9	617	181, 182	23	130
Schüssler, John P., Jr., and H. E. Kersten, New York, N. Y. Combined measure and funnel	285,168	Sept. 18	1248	350	24	1132
Schütt, Johannes, and J. Warnholtz, Neumünster, Holstein, Prussia, Germany. Ring-spinning frame	289,147	Nov. 27	1695	470	25	827
Schutte, Louis, Philadelphia, Pa. Injector	276,898	May 1	467	123	23	1707
Schutte, Louis, and J. Goehring, Philadelphia, Pa.; said Goehring assignor to said Shutte. Steam-jet condenser	285,846	Oct. 2	80	24	25	16
Schutz, Emile. (See Henderson and Schutz.)						
Schuyler, Daniel, New York, N. Y. Music-cabinet	289,569	Dec. 4	248	70	25	931
Schuyler, Daniel, New York, N. Y. Music-cabinet	289,570	Dec. 4	250	70	25	931
Schuyler, Henry, Sturgeon Bay, Wis. Apparatus for raising sunken vessels	287,586	Oct. 30	2299	622	25	447
Schwaner, Christian C., Winterset, Iowa. Hame-tug	286,230	Oct. 9	546	150	25	110
Schwaner, Christian C., assignor of two-thirds to H. J. B. Cummings and T. F. Mardi, Winterset, Iowa. Pad-tree and harness-saddle	271,927	Feb. 6	419	114	23	514
Schwartz, Charles, Brooklyn, N. Y., assignor of one-half to J. E. Linde, Hoboken, N. J. Picture-card	286,642	Oct. 16	1084	292	25	212
Schwartz, Moses. (See Thoens, Burchard, assignor.)						
Schwartz, Philip, Madison, Ohio. Fence-post	287,871	Nov. 6	101	30	25	525
Schwarz, Anton. (See Ulrich, Justus, assignor.)						
Schwarz, Frederick, Buffalo, N. Y. Washing-machine	272,780	Feb. 20	1506	424	23	719
Schwarz, Georg, Fürth, Bavaria, Germany. Machine for grinding elliptical glasses, mirrors, and the like	276,084	Apr. 17	1560	430	23	1509
Schwarz, Theodore, Sedalia, Mo. Roofing-tongs	288,498	Nov. 13	901	245	26	672
Schwarzwaelder, Anton, Minneapolis, Minn. Process of and mechanism for removing bran from wheat	288,669	Nov. 20	1108	304, 305	25	715
Schwarzwalder, Elizabeth, *et al.* (See Schwarzwalder, Henry, assignor.)						
Schwarzwalder, Henry, New York, N. Y. Nut-lock	288,263	Nov. 13	592	162	25	619
Schwarzwalder, Henry, assignor to himself, E. Schwarzwalder, and E. H. Herb, New York, N. Y. Dog for barrel-staves	289,453	Dec. 4	94	27	25	903
Schwegler, Joseph, Buffalo, N. Y. Lifting-jack	278,280	May 22	2169	597	23	2018
Schweich, George W. S., Richmond, Mo. Cornet	284,492	Sept. 4	403	113	24	972
Schweikhard, Daniel, Batavia, N. Y. Fence-post	270,609	Jan. 16	969	280	23	206
Schweitzer, Julius, Brixton, county of Surrey, England. Producing farinaceous food	277,792	May 15	1563	426	23	1908
Schweizer, Maximilian, Naubuc, Conn. Marking knife-blades	288,369	Nov. 13	736	200	25	643
Schwemlein, George, assignor to J. R. Mills & Co., Cincinnati, Ohio. Paper-ruling machine	288,370	Nov. 13	737	200	25	643
Schwenk, August. (See Yoder and Schwenk.)						
Schwertner, Joseph, Ithaca, N. Y. Key-board attachment for musical instruments	277,067	May 8	705	183	23	1753
Schwibinger, August, Milwaukee, Wis. Stove-hood	286,643	Oct. 16	1085	293	25	213
Schwintzer, Carl, and W. Gräff, Berlin, Germany, assignors of one-half to J. F. Donnell & Co., New York, N. Y. Lamp-burner	289,571	Dec. 4	251	70, 71	25	931
Scivalley, Martin L., Decherd, Tenn. Churn and domestic motor	269,964	Jan. 2	169	49	23	35

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Scofield, Levi, Cedar Rapids, Iowa. Corn-planter	276,719	May 1	244	61, 62	23	1666
Scofield, Levi, Cedar Rapids, Iowa. Corn-planter	279,822	June 19	1486	416	23	2391
Scofield, Levi, Grand Haven, Mich. Check-rower	283,425	Aug. 21	1162	327	24	721
Scofield, Orison. (See Simons and Scofield.)						
Scofield, Walter P., Hawthorn, Fla. Saw-mill set-works	289,572	Dec. 4	252	71	25	932
Scofield, William C., New York, N. Y. Oil-tank	286,231	Oct. 9	548	150	25	111
Scoggins, Samuel R., Baltimore, Md. Cough-sirup	283,029	Aug. 14	664	.....	24	625
Scollay, George W., New York, N. Y., assignor to Scollay Preserving and Shipping Company. Preserving meats	284,242	Sept. 4	112	.....	24	923
Scollay Preserving and Shipping Company. (See Scollay, George W., assignor.)						
Scollay, William A., San Francisco, Cal. Tail-piece for banjos	283,519	Aug. 21	1270	355	24	741
Scotchmer, Henry E., Chicago, Ill. Attaching wheels to shafts	284,678	Sept. 11	639	180	24	1018
Scotford, Louis K., New York, N. Y. Hand-stamp	284,243	Sept. 4	113	30	24	923
Scott, Albert O., Summit, R. I. Carriage-jack	282,573	Aug. 7	120	35	24	521
Scott, Charles A., Boston, Mass. Railway electric signal apparatus	282,229	July 31	2400	660	24	439
Scott, Charles A., Boston, Mass. Railway electric signaling apparatus	282,230	July 31	2403	661	24	440
Scott, Charles A., Boston, Mass. Electric-circuit track-instrument	283,152	Aug. 14	806	225	24	649
Scott, Charles E., Freeport, Ill. Show-box	277,515	May 15	1236	333	23	1851
Scott, Charles S., Cadiz, Ohio, and R. P. Scott, assignors to Scott Manufacturing Company, Baltimore, Md. Apple parer, corer, and slicer	288,956	Nov. 20	1460	404	25	779
Scott, David B., Shingle Springs, Cal. Metallic fence-post	289,149	Nov. 27	1697	471	25	827
Scott, Emmet H., and J. Frenier, La Porte, Ind. Vehicle-wheel	276,899	May 1	468	123	23	1708
Scott, Erastus W., Wauregan, Conn. Whip-socket	272,907	Feb. 27	1692	474	23	758
Scott, Erastus W., Wauregan, Conn. Machinery for dumping bags	274,664	Mar. 27	1839	511, 512	23	1174
Scott, Erastus W., Wauregan, Conn. Whip-socket	287,872	Nov. 6	102	30	25	525
Scott, Frank D., and O. L. Gordon, Santa Cruz, Cal. Manifold writing-case	281,403	July 17	1329	368	24	247
Scott, George B., Brooklyn, N. Y. Printing-telegraph	274,665	Mar. 27	1840	512, 513	23	1175
Scott, George W., Defiance, Ohio. Eye-water	284,335	Sept. 4	217	.....	24	941
Scott, Henry E., Ossian, Iowa. Land-roller	283,288	Aug. 14	978	273	24	682
Scott, Jacob R., Nyack, N. Y. Lasting-machine for boots and shoes	281,306	July 17	1207	334	24	227
Scott, Jacob R., Nyack, assignor to J. Cavanagh, trustee, Brooklyn, N. Y. Machine for lasting boots and shoes	284,906	Sept. 11	915	258	24	1067
Scott, James, Pittsburg, Pa. Combustion-chamber for steam-boilers	270,490	Jan. 9	802	234	23	166
Scott, James M. (See Contancin, Scott, and Stumpff.)						
Scott, James P., *et al.* (See Hughes, Henry A., assignor.)						
Scott, James W., Uhrichsville, Ohio. Gate for sheep-feeding yards	285,686	Sept. 25	1858	530	24	1949
Scott, John. (See Kent, William, assignor.)						
Scott, John P., Delphos, Ohio. Sewing-machine	283,669	Aug. 21	1439	402, 403, 404	24	774
Scott, Lamphear H., Baltimore, Md. Apple-parer	278,460	May 29	2426	661	23	2072
Scott, Lanphear H., Newark, N. J. Apple-parer	285,687	Sept. 25	1858	530, 531	24	1249
Scott Manufacturing Company. (See Egerton, C. Calvert, assignor.)						
Scott Manufacturing Company. (See Phillips, William R., assignor.)						
Scott Manufacturing Company. (See Scott, Charles S. and R. P., assignors.)						
Scott Manufacturing Company. (See Scott, Robert P., assignor.)						
Scott Manufacturing Company. (See White, Charles, assignor.)						
Scott, Matthew T., *et al.* (See Radford, Thomas, assignor.)						
Scott, Nathan B., L. Schaub, and H. Feurhake, Wheeling, W. Va. Furnace for the manufacture of glass	284,075	Aug. 28	1966	547, 548	24	878
Scott, Robert P. (See Scott, Charles S. and R. P.)						
Scott, Robert P., assignor to Scott Manufacturing Company, Baltimore, Md. Apple parer, corer, and slicer	283,030	Aug. 14	665	187	24	625
Scott, Robert P., assignor to Scott Manufacturing Company, Baltimore, Md. Apple-parer	283,031	Aug. 14	666	187	24	626
Scott, Robert W., Philadelphia, Pa. Stocking and making the same	271,526	Jan. 30	2116	609	23	421
Scott, Samuel H., and G. J. Talmage, Chanute, Kans. Car-coupling	279,281	June 12	826	229	23	2275
Scott, Seth B., Orange, N. J. Toy block	274,980	Apr. 3	124	35	23	1247
Scott, Walter, Plainfield, N. J. Damping and cutting paper	272,588	Feb. 20	1267	353	23	676
Scott, Walter, Plainfield, N. J. Air-cushioning mechanism for printing-presses	282,379	July 31	2588	711	24	471
Scott, Walter, Plainfield, N. J. Cushioning apparatus for printing-presses	288,872	Nov. 20	1358	373	25	759
Scott, Walter, Hoosick Falls, N. Y. Lamp-filler	275,419	Apr. 10	727	193	23	1359
Scott, William, *et al.* (See Grove and Steely, assignors.)						
Scott, William, Malden, Mass. Ventilating cars	290,710	Dec. 25	1709	470	25	1209
Scott, William, Faulkner, Mass., assignor to Meyer, Sniffin & Co., New York, N. Y. Water-closet cistern	275,716	Apr. 10	1103	302	23	1423
Scott, William E. (See Parnall, George A. and A. N., assignors.)						
Scott, William G., and H. Campbell, Richmond, Ind. Screen for thrashing-machines	286,853	Oct. 16	1351	370	25	260
Scott, William M. (See Baker and Scott.)						
Scott, William M., Lockport, N. Y. Water-elevator	276,481	Apr. 24	2067	574	23	1604
Scott, William M., Birmingham, county of Warwick, and C. Proctor, Handsworth, county of Stafford, England; said Proctor assignor to said Scott. Breakdown gun	288,670	Nov. 20	1111	305	25	716
Scott, William O. N., Baltimore, Md. Wash-stand	270,701	Jan. 16	1068	312	23	228
Scott, William W., and S. A. Emerson, Algona, Iowa. Cream-measuring device	284,493	Sept. 4	404	113	24	972
Scott, Winfield G., Milwaukee, Wis. Window curtain and shade	289,573	Dec. 4	254	71	25	932
Scottron, Samuel R., Brooklyn, N. Y. Cornice	270,851	Jan. 16	1962	364	23	262
Scouller, Alexander, assignor to himself and J. F. O'Conner, Davenport, Iowa. Eccentric-coupling for shakers	284,907	Sept. 11	917	258	24	1068
Scovell, Joseph B. (See Pattee and Scovell.)						
Scovell, Melvill A. (See Weber and Scovell.)						
Scovill Manufacturing Company. (See Camp, Wallace H., assignor.)						
Scovill Manufacturing Company. (See Crane and Lines, assignors.)						
Scovill Manufacturing Company. (See Kilburn, Benjamin W., assignor.)						
Scovill Manufacturing Company. (See Price, H. Clay, assignor.)						
Scovill Manufacturing Company. (See Shipley, Alfred J., assignor.)						
Scovill Manufacturing Company. (See Spruce, James, assignor.)						
Scovill Manufacturing Company. (See Welton, Edwin D., assignor.)						
Scrannage, Matthew. (See Johnson, Jacob, assignor.)						
Scranton, Abner R. (See Scranton, Alfred L., assignor.)						
Scranton, Alfred L., Western Springs, Ill. Hinge	282,574	Aug. 7	121	36	24	521
Scranton, Alfred L., assignor of one-half to A. R. Scranton, Rochelle, Ill. Door-latch	284,336	Sept. 4	217	61	24	941
Scranton, Clifford R. (See Redman, Andrew J., assignor.)						
Scranton, Worthington, assignor to Sargent & Co., New Haven, Conn. Door-bell	272,336	Feb. 13	929	258	23	613

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Scrape, William H., Beebe, Kans. Shaft for vehicles	290,936	Dec. 25	1991	549	25	1258
Screven, Sparkman R., Philadelphia, Pa. Toy bird	278,461	May 29	2427	661	23	2072
Screven, Sparkman R., Philadelphia, Pa. Dental-engine hand-piece	288,499	Nov. 13	902	246	25	672
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Circuit for multiple switch-boards for telephone-exchanges	271,279	Jan. 30	1790	520	23	363
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Secrecy-switch for telephones	271,280	Jan. 30	1791	520	23	363
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Head-gear for switchmen's telephones	275,420	Apr. 10	728	194	23	1359
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-switch	284,908	Sept. 11	918	259	24	1068
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-switch	284,909	Sept. 11	919	259	24	1068
Scribner, Charles E., assignor to Western Electric Manufacturing Company, Chicago, Ill. Automatic crank-switch for telephone call-boxes	287,873	Nov. 6	103	30	25	525
Scribner, Charles E., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Circuit for telephone-exchanges	278,367	May 29	2313	633	23	2052
Scribner, Charles E., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Circuit for telephone call-boxes	283,927	Aug. 28	1761	497	24	842
Scribner, Edwin A., Brooklyn, N. Y. Manufacturing artificial fertilizers	283,426	Aug. 21	1164	.....	24	721
Scribner, Edwin A., Brooklyn, N. Y. Manufacturing artificial fertilizers	283,427	Aug. 21	1166	.....	24	722
Scrivanow, Grégoire, Paris, France, assignor to H. H. Eldred, London, England. Galvanic battery	270,702	Jan. 16	1089	312	23	298
Scruton, Stephen B., assignor to E. G. and E. Wallace, Rochester, N. H. Burnisher and beader head for polishing heels	282,673	Aug. 7	236	69	24	541
Scrymgeour, David, Foxborough, assignor of one-half to S. K. Scrymgeour, Worcester, Mass. Frame for school-slates	277,164	May 8	829	219	23	1774
Scrymgeour, Samuel K. (See Scrymgeour, David, assignor.)						
Scull, Charles R., *et al.* (See Henwood, John, assignor.)						
Scully, Benjamin B., Lynn, Mass. Necktie-support	272,337	Feb. 13	930	258	23	613
Scully, James. (See Scully, John T., assignor.)						
Scully, James, New Orleans, La. Conical boiler-tube expander	290,273	Dec. 18	1118	315	25	1099
Scully, John T., Cambridge, Mass., assignor of one-half to J. Scully, Groton, Conn. Derrick	275,421	Apr. 10	729	194	23	1360
Scully, William. (See Brooks and Scully.)						
Scutt, Hiram B., Joliet, Ill. Wire-barbing machine	280,676	July 3	405	113	24	72
Scutt, Hiram B., Joliet, Ill. Barbed wire for fences	287,059	Oct. 23	1620	446	25	313
Seabrook, William, Edisto Island, S. C. Wheelbarrow	279,604	June 19	1239	343	23	2348
Seabury, Edgar R., Brooklyn, N. Y. Necktie-holder	280,246	June 26	2004	563	23	2489
Seabury, Frederick W., Providence, R. I. Securing teeth to artificial gums and flask for the same	271,370	Jan. 30	1919	555	23	386
Seabury, Frederick W., Providence, R. I. Dental flask	279,605	June 19	1239	344	23	2349
Seabury, Frederick W., Providence, R. I. Dental flask	283,928	Aug. 28	1762	497	24	843
Seager, S. F., *et al.* (See Bennette, Jacob B., assignor.)						
Seagrave, Frederic S., Rochester, Mich. Ladder	278,051	May 22	1876	513	23	1968
Seagrave, Frederic S., Rochester, Mich. Extension step-ladder	278,052	May 22	1877	513	23	1969
Seagrave, John D., and E. R. Fuller, Worcester, Mass. Fire-escape	286,644	Oct. 16	1085	293	25	213
Sealamer, John, assignor of one-half to Z. F. Fluhart, Pana, Ill. Fruit-picker	287,780	Oct. 30	2561	689	25	496
Seaman, John A., Chicago, Ill. Tool for working off kegs and barrels	271,660	Feb. 6	90	24	23	456
Seaman, John A., Chicago, Ill. Pie-plate	284,244	Sept. 4	113	30	24	923
Seaman, Joseph S., assignor to himself, J. B. Young, and R. Sleeth, Pittsburg, Pa. Splice-bar for rail-joints	276,900	May 1	469	124	23	1708
Seaman, Thomas, Listowell, Ontario, Canada. Wagon-gearing	272,908	Feb. 27	1693	474	23	758
Seaman, Thomas C., Chicago, Ill. Machine for crozing, chamfering and howeling barrels	284,245	Sept. 4	114	31	24	923
Seaman, William K., Scranton, Pa. Rail-straightening machine. (Reissue)	10,276	Jan. 23	1703	499	23	340
Seaman, William K., Scranton, Pa. Hot-bed for cooling railway-rails	272,781	Feb. 20	1507	424, 425	23	719
Seaman, William T. (See Bunce and Sammis, assignors.)						
Seamans, Irving M., Buffalo, N. Y. Gas-heater for sad-irons	286,155	Oct. 2	458	124	25	85
Searing, James E., assignor to Robbins & Appleton, New York, N. Y. Watch-case	278,609	May 29	2597	709	23	2102
Searle, Frank S. (See Turner and Searle.)						
Searle, Orlando H. (See Ivins and Snyder, assignors.)						
Searle, Thomas A., Quidnick, assignor to R. Barton, Providence, R. I. Button or stud	281,404	July 17	1330	368	24	247
Searle, William H. (See Eskrett and Searle.)						
Searles, Albert P., Mount Kisco, N. Y. Socket-wrench	284,076	Aug. 28	1967	548	24	878
Searles, Andrew B. (See Gifford, Alenza T., assignor.)						
Searles, Charles P., assignor of one-half to G. W. Butler, Columbus, Ohio. Car-coupling	286,080	Oct. 2	371	103	25	68
Searls, Anson, Newark, N. J. Top-prop nut	272,589	Feb. 20	1268	353	23	676
Searls, Anson, Newark, N. J. Capped screw-nut	276,482	Apr. 24	2068	574	23	1605
Searls, Anson, Newark, N. J. Whip-socket	279,282	June 12	827	229	23	2275
Searls, Anson, Newark, N. J. Whip-socket fastener	283,580	Aug. 21	1270	356	24	741
Searls, Anson, Newark, N. J. Whip-socket fastener	287,874	Nov. 6	103	31	25	525
Searls, Anson, Newark, N. J. Whip-socket	288,671	Nov. 20	1112	305	25	716
Sears, Charles, South Evanston, Ill. Baggage-check	281,733	July 24	1758	478	24	324
Sears, Charles, South Evanston, Ill. Game apparatus or toy target	289,032	Nov. 27	1559	430	25	803
Sears, Edward P. (See Cooper, Edward A., assignor.)						
Sears, Edwin P., Buffalo, N. Y. Halter	277,354	May 8	1046	280	23	1813
Sears, Edwin P., Buffalo, N. Y. Wagon-seat fastener	282,786	Aug. 7	373	105	24	565
Sears, Henry C, Boston, Mass. Two-wheeled vehicle	280,524	July 3	228	60	24	41
Seath, James. (See Wagner and Seath.)						
Seaton, Benjamin C., Cowan, Tenn. Vehicle-wheel	285,515	Sept. 25	1657	466	24	1211
Seaton, William, London, England. Rail-joint	280,406	July 3	82	22	24	17
Seaton, William C., Quebec, Quebec, Canada. Wick-trimmer	272,338	Feb. 13	931	259	23	613
Seaton, William C., Quebec, Quebec, Canada. Wick-trimmer	283,521	Aug. 21	1271	356	24	741
Seaton, Wright J., Wyandotte, Kans. Automatic safety-brake for elevators	279,024	June 5	503	137	23	2209
Seaver, Latimer S., Boston, Mass. Machine for hulling and polishing rice	277,947	May 22	1748	476, 477	23	1945
Seaverns, Isaac W., Jr., Chicago, Ill. Device for promoting combustion in boiler-furnaces	286,854	Oct. 16	1352	370	25	260
Seawell, Jesse P., Hope, Ark. Pile-driver	280,407	July 3	83	22	24	17
Seay, Thomas N., Eastover, S. C. Cotton-planter	281,145	July 10	995	278	24	182
Sebold, Georg, Carlsruhe, Germany. Molding-machine	284,494	Sept. 4	405	113, 114, 115, 116	24	973
Sebring, Henry K., East St. Louis, Ill., assignor of one-fourth to C. W. Waughop, St. Louis, Mo. Car-coupling	275,717	Apr. 10	1105	302	23	1493

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Dr'g.	Official Gazette. Vol.	Page.
Secor, Jerome B., Bridgeport, Conn. Sewing-machine	282,674	Aug. 7	237	69	24	541
Secor, Jerome B., Bridgeport, Conn. Sewing-machine tension	286,336	Oct. 9	708	189	25	138
Secor, Nelson. (See Johnston, Abner, assignor.)						
Secor, William H., assignor of one-third to S. Crosser and H. Rogers, Farragut, Iowa. Combined corn harvester and husker	281,569	July 17	1531	420	24	281
Sedgwick, John, Richmond, Ind. Wire and cord stretcher	277,068	May 8	707	184	23	1753
Sedgwick & Stuart Manufacturing Company. (See Stuart, Robert J., assignor.)						
Sedlacek, Karl. (See Pichler and Sedlacek.)						
See, James W. (See Carr and See.)						
See, James W., assignor of one-half to F. X. Black and S. P. Clawson, Hamilton, Ohio. Device for transmitting motion	280,247	June 26	2004	564	23	2489
See, James W., Hamilton, Ohio, assignor to Aschroft Manufacturing Company, of Massachusetts and New York. Scale for steam-engine indicators	282,931	Aug. 7	537	152	24	596
See, Joseph B., Poughkeepsie, N. Y. Shirt	273,168	Feb. 27	2005	564	23	812
Seebach, Louis, and J. Bettschen, Gowanstown, Ontario, Canada. Motive power	281,929	July 24	2008	550	24	369
Seeger, George G., Hillsdale, Iowa. Combined harrow and roller	273,320	Mar. 6	99	30	23	851
Seeger, George G., Hillsdale, Iowa. Drag-saw	288,264	Nov. 13	592	163	25	619
Seel, John B., Clinton Villas Church Road, Urmston, county of Lancaster, England. Umbrella or parasol	284,495	Sept. 4	410	117	24	973
Seelo, Henry F. W., Rolla, Mo. Reflector for lamps	278,610	May 29	2599	709	23	2102
Seeley, Charles A., New York, N. Y. Dynamo and magneto electric machine	271,928	Feb. 6	420	114	23	514
Seeley, Charles A., New York, assignor to J. B. Tibbits, Hoosick, N. Y. Magneto-electric machine	277,069	May 8	709	184	23	1753
Seeley, Hiram T., Sheboygan Falls, Wis. Two-wheeled vehicle	275,084	Apr. 3	270	74	23	1272
Seeley, Marquis F., Fremont, Nebr. Grain-elevator	288,371	Nov. 13	737	200, 201	25	643
Seely, Clarence E. (See Curtis, Martin M., assignor.)						
Seely, Edwin R., *et al.* (See Wright, Noah D., assignor.)						
Seely, Henry W. (See Dyer, Richard N., assignor.)						
Seely, Henry W. (See Dyer and Seely.)						
Seely, James W., *et al.* (See Seely, Samuel F., assignor.)						
Seely, John A. (See Eckert and Seely.)						
Seely, John A. (See Eckert, Seely, and Eckert.)						
Seely, Samuel F., Petersburg, Mich. Stove-pipe shelf	283,822	Aug. 28	1639	462	24	821
Seely, Samuel F., assignor of two-thirds to J. W. and W. M. Seely, Toledo, Ohio. Spring for beds, &c.	276,901	May 1	471	124	23	1708
Seely, Thomas. (See Carter and Seely.)						
Seely, William M., *et al.* (See Seely, Samuel F., assignor.)						
Seely, Willis G., Albany, N. Y. Music-leaf holder	274,037	Mar. 13	1009	277	23	1015
Seelye, Seymour K., Hudson, Mich. Sulky-plow	288,873	Nov. 20	1360	373	25	760
Seery, Thomas F., assignor of one-third to H. Stubbendorff, Montreal, Quebec, Canada. Stowage of grain	288,500	Nov. 13	903	246	25	672
Segal, Adolph, San Francisco, Cal. Cooking-cabinet	273,169	Feb. 27	2006	564	23	813
Segar, Charles T., Utica, N. Y. Cot-bed	281,930	July 24	2008	550	24	369
Segesser, John U., San Francisco, Cal. Bretzel-cutter	283,522	Aug. 21	1273	356	24	741
Segur, Harvy, assignor of one-half to J. Watts, Decatur, Ind. Carpet-stretcher	290,274	Dec. 18	1119	315	25	1100
Seheel, John H. (See Assmann, Franz A., assignor.)						
Seibel, Georges, Cransac, France. Coke-oven	288,874	Nov. 20	1361	373, 374	25	760
Seiberlich, Frank B., East Cambridge, Mass. Bottle-washing machine	272,484	Feb. 20	1134	319	23	653
Seiberlich, Frank B., East Cambridge, Mass. Bottle-washing machine. (Reissue)	10,327	May 15	1656	451	23	1924
Seiberling, John F., Akron, Ohio. Machine for the manufacture of paper barrels	285,847	Oct. 2	83	24, 25	25	17
Seiberling, John F., Akron, Ohio. Harvester	290,484	Dec. 18	1402	387, 388	25	1149
Seibert, Edgar H., Jamestown, Ohio. End-gate	285,848	Oct. 2	86	25	25	17
Seibold, Otto F., Brooklyn, N. Y. Gun-wad	271,527	Jan. 30	2117	609	23	422
Seidel, Emil F., St. Louis, Mo. Counter-rail or arm-rest bracket	281,405	July 17	1331	369	24	247
Seifert, Katharina, Cincinnati, Ohio. Degranulating-machine	290,485	Dec. 18	1404	388	25	1150
Seiler, George, Spring Forge, Pa. Purifying water	275,277	Apr. 3	503	.....	23	1312
Seiler, Max, New York, N. Y. Combined cape and hood	276,720	May 1	245	62	23	1666
Seip, Andrew M., Jr. (See Reiff, William H., assignor.)						
Seitz, Albert and W., Washington, D. C. Fan	271,528	Jan. 30	2118	609	23	422
Seitz, William. (See Seitz, Albert and W.)						
Seivard, Abraham, Reading, Pa. Lock-hinge	283,523	Aug. 21	1274	356	24	741
Selby, Charles M., *et al.* (See Lederer, Charles, assignor.)						
Selby, James, Peoria, Ill. Corn-planter	274,981	Apr. 3	125	35	23	1247
Selby, James H., assignor of one-half to J. W. Skeavington, Albion, Ill. Bed-rail-slat lock	275,718	Apr. 10	1106	302	23	1423
Selby, James H., assignor of one-half to H. J. Strawn, Albion, Ill. Kitchen-safe	289,311	Nov. 27	1887	525	25	864
Selby, Stephen F. (See Rathbun and Selby.)						
Selden, Charles, Toledo, Ohio. Multiplex telegraphy	270,990	Jan. 23	1443	417	23	297
Selden, Charles, St. Louis, Mo. Mechanical telephone	281,406	July 17	1332	369	24	247
Selden, Charles, St. Louis, Mo. Acoustic telephone	281,407	July 17	1333	369	24	248
Selden, Edward P., administrator. (See Griswold and Selden.)						
Selden, George, Erie, Pa. Balanced slide-valve	276,721	May 1	246	62	23	1667
Selden & Griswold Manufacturing Company. (See Hanchett, Oren R., assignor.)						
Selden, Henry C., Cincinnati, Ohio. Distilling apparatus	276,483	Apr. 24	2069	574	23	1605
Selden, Mira, administratrix. (See Warren, Jabez T., assignor.)						
Selden, Samuel, deceased. (See Griswold and Selden.)						
Seldon, Mira, administratrix. (See Seldon, Robert.)						
Seldon, Robert, deceased, Stafford, N. Y., M. Seldon, administratrix. Friction roller and box	277,070	May 8	710	184	23	1753
Selkirk, David. (See Bell and Selkirk.)						
Selle, Ferdinand, Detroit, Mich. Wagon platform-gearing	270,254	Jan. 9	507	149	23	109
Sellers, George H. (See Sellers, William and G. H.)						
Sellers, John, Jr. (See Sellers, William and G. H., assignors.)						
Sellers, Morris, Chicago, Ill. Railway splice-bar	285,688	Sept. 25	1860	531	24	1250
Sellers, Thomas H., Vallejo, Cal. Boat-detaching apparatus	275,529	Apr. 10	870	235	23	1383
Sellers, William. (See Bancroft and Thorne, assignors.)						
Sellers, William, Philadelphia, Pa. Pneumatic fire-extinguisher	269,965	Jan. 2	170	49	23	35
Sellers, William, Philadelphia, Pa., and G. H. Sellers, Wilmington, Del.; said G. H. Sellers assignor to J. Sellers, Jr., Philadelphia, Pa. Upsetting metal	276,291	Apr. 24	1818	507	23	1562
Selting, Bernard, Dyersville, Iowa. Gate	285,689	Sept. 25	1861	531	24	1250
Sembritzki, Max, Schlöglmühl, near Vienna, Austria-Hungary. Paper-making apparatus	288,125	Nov. 6	413	117	25	580

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Semet, Louis, Brussels, Belgium. Coke-oven	287,332	Oct. 23	1964	536, 537	25	375
Semones, John C., Minden, Nebr. Bagasse-furnace	824,946	Sept. 4	115	31	24	924
Semper, Conrad, assignor to Harrison Brothers & Co., Philadelphia, Pa. Manufacture of aluminous cake	271,371	Jan. 30	1920	.....	23	386
Semper, Conrad, assignor to Harrison Brothers & Co., Philadelphia, Pa. Manufacture of sulphate of alumina	280,088	June 26	1823	.....	23	2457
Semper, Conrad, assignor to Harrison Brothers & Co., Philadelphia, Pa. Manufacture of sulphate of alumina	280,089	June 26	1824	.....	23	2457
Semper, Conrad, assignor to Harrison Brothers & Co., Philadelphia, Pa. Manufacture of sulphate of alumina	280,090	June 26	1824	.....	23	2457
Semple, Harry, and A. P. Ayling, Wellsburg, W. Va. Revolving glass caster	290,804	Dec. 25	1828	505	25	1230
Semple, James, Cincinnati, Ohio. Cock	269,886	Jan. 2	74	22, 23	23	17
Semple, William F., Mount Vernon, Ohio. Inhaler	290,486	Dec. 18	1405	368	25	1150
Senderling, Martin L., Jersey City, N. J. Hub for vehicle-wheels	277,355	May 8	1046	281	23	1813
Senderling, Martin L., Jersey City, N. J. Journal-lubricator	290,937	Dec. 25	1992	550	25	1258
Seng, Wendelin, Chicago, Ill. Bung and bush	276,902	May 1	472	124	23	1709
Senour, Faunt L., New Alexandria, Pa. Electric light	280,677	July 3	406	114	24	72
Senour, William P., Pimento, Ind. Car-door and fastening	278,611	May 29	2599	709	23	2103
Senseney, Edgar M., St. Louis, Mo. Bicycle-bell	279,448	June 12	1052	291	23	2310
Senter, George F. (See Toppan, Charles, assignor.)						
Sequeira, Augustus, Hartford, Conn. Centering-gage	271,746	Feb. 6	193	54	23	473
Sergeant, Benjamin E., Greensborough, N. C. Saw-mill set-works	283,670	Aug. 21	1442	404	24	774
Sergeant & Cullingworth Company. (See Cullingworth and Potter, assignors.)						
Sergeant & Cullingworth Company. (See Potter, Charles W., assignor.)						
Serrell, Harold, Plainfield, N. J. Alarm-bell for bicycles	285,933	Oct. 2	201	56	25	39
Serrell, John A., Bayonne, and G. M. Ward, Newark, assignors to Ralston Gas Engine and Manufacturing Company, Newark, N. J. Gas-motor	285,169	Sept. 18	1249	350, 351	24	1132
Serson, James. (See Kauffer and Serson.)						
Servis, David, Sennett, assignor, by mesne assignments, to Servis Railroad Tie Plate Company, New York, N. Y. Wear-plate for railway-ties. (Reissue)	10,302	Apr. 3	615	165	23	1330
Servis Railroad Tie Plate Company. (See Servis, David, assignor.) (Reissue)						
Sessions, John H. (See Crouch, George, assignor.)						
Settle, Thomas, assignor to H., A. H., H. C., and W. Disston, Philadelphia, Pa. Machine for grinding metal plates	286,855	Oct. 16	1354	370, 371	25	260
Severance, James R., Fremont, Ohio. Bundle-discharger for grain-binders	277,356	May 8	1047	281	23	1813
Severance, James R., Fremont, Ohio. Feeding and packing mechanism for grain-binders	281,570	July 17	1533	420, 421	24	281
Severance, James R., Fremont, Ohio. Endless carrier for grain-binders, &c.	283,671	Aug. 21	1444	404, 405	24	775
Severance, James R., Fremont, Ohio. Wheel for harvesters	289,150	Nov. 27	1698	471	25	927
Severin, Emil, Aurora, Ind. Metallic roofing	276,085	Apr. 17	1562	430	23	1510
Sevier, Moses N., Gainesville, Tex. Fence	277,357	May 8	1049	282	23	1813
Sewall, Bradford, Farmington, Me. Elevator	275,950	Apr. 17	1400	386	23	1482
Seward, George F., *et al.* (See Clay, Robert J., assignor.)						
Seward & Son, M. (See Cooper, William H., assignor.)						
Seward, Williamson B., Bloomington, Ind. Evaporating-pan	290,193	Dec. 11	1005	283	25	1072
Sewell, Franklin M., Dangerfield, Tex. Cotton-condenser	280,868	July 10	659	185	24	123
Sewell, Joseph, Jr., Hamilton, Ind. Lifting-jack	271,137	Jan. 23	1614	464	23	325
Sexton, Henry M., Chicago, Ill. Refrigerator-car	290,805	Dec. 25	1829	505, 506	25	1230
Sexton, Michael, New York, N. Y. Automatic flushing-tank	287,179	Oct. 23	1773	486	25	344
Sexton, William F., Sr., and William F. Sexton, Jr., Toronto, Ontario, Canada. Door-balance	285,365	Sept. 18	1475	415	24	1172
Sextro, Joseph G., Carthage, Ohio. Furnace for steam-boilers	276,903	May 1	473	124	23	1709
Seybert, Harvey F., Brady's Bend, Pa. Miner's pick	271,929	Feb. 6	421	115	23	514
Seybold, Frederick J., New York, assignor to C. C. Gignoux, Brooklyn, N. Y. Stylographic pen	272,161	Feb. 13	716	197	23	575
Seymour, Alvin C., Fall River, Mass. Road-plow	269,454	Dec. 4	95	27	25	903
Seymour, Arba M., Mazomanie, Wis. Table-leg	284,764	Sept. 11	749	208	24	1037
Seymour, Emily, *et al.* (See Cameron, James W., assignor.)						
Seymour, Francis, Paterson, N. J. Theatrical appliance	280,525	July 3	229	60	24	41
Seymour, Francis, and A. Bannigan; said Bannigan assignor to said Seymour; said Seymour assignor of one-half to R. Rossiter and S. Thorp, Paterson, N. J. Machine for spinning, doubling, and twisting silk	282,123	July 31	2268	622	24	417
Seymour, Frederick H., Detroit, Mich. Monkey-wrench	273,170	Feb. 27	2007	564	23	813
Seymour, Henry A., Washington, D. C. Electric light	270,491	Jan. 9	802	234	23	167
Seymour, James M., Newark, N. J. Differential index for machine-tools	276,292	Apr. 24	1821	507	23	1562
Seymour, James M., Newark, N. J. Automatic fan	284,077	Aug. 28	1968	548	24	878
Seymour, James M., Newark, N. J. Mechanism for adjusting rods or pitmen of die-presses	284,910	Sept. 11	920	259, 260	24	1068
Seymour, James M., Newark, N. J. Die-press connecting-rod	287,333	Oct. 23	1966	537	25	376
Seymour, James M., Newark, N. J. Sheet-metal press	290,275	Dec. 18	1120	315	25	1100
Seymour, Joseph L., New York, N. Y. Kindling-block-sawing machine	290,711	Dec. 25	1710	471	*25	1909
Seymour Manufacturing Company. (See Swope, Francis M., assignor.)						
Seymour, Marvin J., Olean, N. Y. Process of and apparatus for manufacturing lamp-black	278,749	June 5	91	26, 27	23	2139
Seymour, Nelson, Erie, Pa. Gold-separator	270,492	Jan. 9	804	234	23	167
Seymour, Robert H., Holyoke, Mass. Monkey-wrench	273,899	Mar. 13	850	230	23	987
Seymour, William H., Gloversville, N. Y. Shoe and glove fastening	282,675	Aug. 7	238	69	24	541
Seymour, Will S., assignor to H. C. Bradley, Chicago, Ill. Cutting device	284,496	Sept. 4	410	117	24	973
Seymour, William S., assignor to H. C. Bradley, Chicago, Ill. Uniting sheets of fibrous and other materials	289,455	Dec. 4	96	28	25	903
Shaaber, Jacob. (See Fiester, John C., assignor.)						
Shafer, Caspar B., Washington, D. C. Medicated effervescent salts	287,781	Oct. 30	2562	.....	25	496
Shafer, Charles T., Springfield, Ohio. Fountain pen-holder	279,025	June 5	505	137	23	2209
Shaffer, Charles H., assignor of one-half to S. N. Jones, Rockford, Ill. Hose-reel	290,806	Dec. 25	1831	506, 507	25	1231
Shaffer, Henry E., Rochester, N. Y. Lamp	285,310	Sept. 18	1405	397	24	1161
Shaffer, John B., Kearney, Nebr. Steam-engine	273,171	Feb. 27	2008	565	23	813
Shaffer, Joseph, assignor of one-half to E. F. Cooper, Dayton, Ohio. Crupper for harness	277,516	May 15	1236	333	23	1851
Shaffer, Thomas, assignor to Phœnix Iron Company, Phœnixville, Pa. Rolling-mill	276,086	Apr. 17	1562	431	23	1510
Shaffer, Thomas, assignor to Phœnix Iron Company, Phœnixville, Pa. Rolling-mill	280,248	June 26	2006	564	23	2490
Shaffer, Thomas, assignor to Phœnix Iron Company, Phœnixville, Pa. Rolling-mill	288,501	Nov. 13	904	246	25	672

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Shaffer, William C., Philadelphia, Pa., assignor to Railroad Safety Lock and Signal Company, of New Jersey. Apparatus for stopping trains, signaling, &c	276,904	May 1	474	125	23	1709
Shaffer, William C., and A. M. White, Philadelphia, Pa., assignors to Railroad Safety Lock and Signal Company, of New Jersey. Automatically stopping trains and signaling	276,905	May 1	475	125	23	1709
Shaffer, William F., Cedar Rapids, Iowa. Oil-cake former and spring-mat	275,278	Apr. 3	504	139	23	1312
Shaffner, Ephraim L., Joliet, Ill. Door-hanger	279,606	June 19	1240	344	23	2349
Shafto, Thomas M. (See Wood, Thomas W., assignor.)						
Shaler, Clarence A., Fox Lake, Wis. Rotary engine	286,232	Oct. 9	549	150 151	25	111
Shaler, Ira W., Brooklyn, N. Y., assignor of one-half to H. C. Covert, New York. Carburetor	278,281	May 22	2170	598	23	2018
Shallus, William W., assignor of two-thirds to S. B. Bitzer and W. B. Wilson, Lancaster, Pa. Seal-lock	282,380	July 31	2589	711	24	472
Shamp, George W., Buffalo, N. Y. Feed-water heater and purifier	283,823	Aug. 28	1640	462	24	821
Shamp, George W., assignor to A. M. Westfall and E. A. Gay, Buffalo, N. Y. Rotary pump	283,153	Aug. 14	808	226	24	650
Shanahan, Winfield S., assignor of one-half to S. C. Hulbert, East Chatham, N. Y. Thill-coupling	279,026	June 5	505	137	23	2209
Shanck, Henry K., assignor of one-fourth to J. A. Snell, Dayton, Ohio. Railway-tricycle	287,732	Oct. 30	2493	671	25	483
Shanck, Henry K., assignor of one-fourth to J. A. Snell, Dayton, Ohio. Tricycle	289,151	Nov. 27	1699	472	25	828
Shaner, David G., Blue Mound, Ill. Check-rower and drill	283,824	Aug. 28	1641	462	24	821
Shank, Charles A. (See Cummings and Shank.)						
Shankland, Manning R., *et al.* (See Smith, Abraham B., assignor.)						
Shanner, Charles T. (See Weston and Shanner.)						
Shannon, James, Washington, D. C. Sash-cord guide	274,831	Mar. 27	2031	565	23	1206
Shannon, James S., Hinsdale, Ill. Paper-file	274,832	Mar. 27	2032	566	23	1208
Shannon, John, Wixom, Mich. Potato-digger	288,875	Nov. 20	1362	374	25	760
Shannon, William. (See Nolan, John M., assignor.)						
Sharkey, Thomas W., Philadelphia, Pa. Stopping mechanism for looms	283,289	Aug. 14	979	273	24	682
Sharp, Dennis P., Ithaca, N. Y. Thill for vehicles	276,196	Apr. 24	1704	471	23	1542
Sharp, Dennis P., Ithaca, N. Y. Spring-vehicle	276,906	May 1	477	125	23	1709
Sharp, Dennis P., Ithaca, N. Y. Two-wheeled vehicle	280,962	July 10	775	215	24	142
Sharp, Frank, Los Angeles, Cal. Flue-plugging device	278,612	May 29	2600	709	23	2103
Sharp, George W., Crawfordsville, Ind. Automatic grain-meter	286,645	Oct. 16	1067	293 294	25	213
Sharp, James L. (See Hutchins, Abner B., assignor.)						
Sharp, John F., *et al.* (See Shields, Francis M., assignor.)						
Sharpe, Alfred H. B., and F. Palmer, Lincoln, county of Lincoln, England. Vertical steam-boiler	283,672	Aug. 21	1446	405	24	775
Sharpless, Joel H., Kennett Square, Pa. Lime-wash for coating buildings, &c	276,293	Apr. 24	1822	.....	23	1562
Sharpneck, William S., assignor of one-half to G. Majors, Blair, Nebr. Rock-breaker	271,138	Jan. 23	1615	464	23	325
Sharpneck, William S., assignor of one-half to G. Majors, Blair, Nebr. Blower	271,139	Jan. 23	1616	465	23	326
Sharpneck, William S., Denver, Colo., assignor of two-thirds to H. N. Nichols, North Platte, Nebr. Steam-power stamp	272,485	Feb. 20	1136	319	23	653
Sharpneck, William S., Denver, Colo., assignor of two-thirds to H. N. Nichols, North Platte, Nebr. Ore-crusher	279,983	June 26	1690	474	23	2433
Sharpneck, William S., Denver, Colo., assignor of two-thirds to H. N. Nichols, North Platte, Nebr. Steam-power stamp	279,984	June 26	1691	475	23	2433
Sharrett, John W., Portsmouth, Va. Guide for sail-rigging	279,985	June 26	1692	475	23	2434
Shattuck, Aaron D., Granby, Conn. Stretcher-frame	272,162	Feb. 13	718	197	23	576
Shattuck, Charles L., Grand Rapids, Mich. Folding table	272,909	Feb. 27	1694	474	23	758
Shattuck, Jane A., Utica, N. Y. Hair-tonic	277,165	May 8	830	.....	23	1774
Shattuck, Stephen D., Cohocton, N. Y. Fire-escape ladder	285,690	Sept. 25	1862	531	24	1250
Shattuck, William P., Minneapolis, Minn. Spiral spring post	289,033	Nov. 27	1560	430	25	803
Shaughnessy, Thomas J., Marshall, Mo. Scaffold-support	290,487	Dec. 18	1406	388	25	1150
Shaver, Charles B., and S. C. Schofield, Freeport, Ill.; said Schofield assignor to said Shaver. Ladder	272,163	Feb. 13	718	197	23	576
Shaver, George F., Erie, Pa. Angle-hanger for mechanical-telephone lines	278,750	June 5	93	27	23	2140
Shaw, Ai B., Medford, Mass. Spring-roller fixture	280,249	June 26	2006	564	23	2490
Shaw, Ai B., Medford, Mass. Roller for curtain-fixtures	283,737	Aug. 21	1527	431	24	790
Shaw, Albert C., assignor of one-half to G. H. Fuller, San Francisco, Cal. Tellurian	288,372	Nov. 13	741	201	25	644
Shaw, Benjamin C., Toledo, Ohio. Draft-equalizer	282,575	Aug. 7	122	36	24	521
Shaw, Charles A. (See Conkey, Edward L., assignor.)						
Shaw, Charles A. (See Eskildson, Henry W., assignor.)						
Shaw, Charles A. (See Hoyt, Lewis S., assignor.)						
Shaw, Charles A. (See Rooney, Henry F., assignor.)						
Shaw, Charles A. (See Smith, Lawrence F., assignor.)						
Shaw, Charles B., Malden, Mass. Cloth-measuring machine	276,722	May 1	248	63	23	1667
Shaw, Charles H., Brooklyn, N. Y. Clock-holding attachment for gas-burners	272,983	Feb. 27	1777	497	23	772
Shaw, Charles H., assignor of one-half to J. H. Reynolds, Troy, N. Y. Faucet-bushing	270,559	Jan. 9	901	260	23	185
Shaw, Charles H., Brooklyn, assignor of one-half to J. H. Reynolds, Troy, N. Y. Stopper for the feeding-holes of cans	273,400	Mar. 6	209	56	23	869
Shaw, Charles H., assignor to G. Willemin, Brooklyn, N. Y. Guard for the pendant-bows of watches	278,282	May 22	2171	598	23	2019
Shaw, Edgar. (See De Laski and Shaw.)						
Shaw, Frank, New York, N. Y., and W. A. Childs, Englewood, N. J. Telephone-exchange system and apparatus	278,613	May 29	2601	710	23	2103
Shaw, Fred. A., and H. E. Judkins, Portland, Me.; said Shaw assignor to said Judkins. Electric signaling apparatus for railway-trains	277,358	May 8	1050	282	23	1813
Shaw, George E., assignor to Shaw Telephonic Company of America, Chicago, Ill. Telephonic transmitter	270,136	Jan. 2	365	106	23	75
Shaw, George E., Chicago, Ill., assignor to Shaw Telephonic Company of America. Telephone-receiver	276,723	May 1	249	63	23	1667
Shaw, Ira C., assignor of one-half to H. T. Breese, Rixford, Pa. Gib	276,484	Apr. 24	2070	575	23	1605
Shaw, Isaac B., Tunstall, county of Stafford, England. Manufacture of tiles, bricks, &c	288,876	Nov. 20	1363	.....	25	760
Shaw, Jehyleman, Bridgeport, Conn. Driven well	278,751	June 5	95	27	23	2140
Shaw, Jerome B. (See Newby, William H., assignor.)						
Shaw, John, Hindmarsh, South Australia. Tawing hides or skins	286,491	Oct. 9	885	.....	25	171
Shaw, John P., Bridgeton, N. J. Egg-tester	289,574	Dec. 4	254	71	25	932
Shaw, John R., Elm, Mich. Check-rein hook	283,154	Aug. 14	809	226	24	650
Shaw, Kendall & Co. (See Wolcott, Joseph L., assignor.)						
Shaw, Lorenzo D. B., Revere, Mass. Horse hay-rake	280,963	July 10	776	215	24	142
Shaw, Myron J., Williamsport, Pa. Machine for bundling kindling-wood	282,381	July 31	2591	712	24	472
Shaw, Myron J., Williamsport, Pa. Kiln for drying kindling-wood	283,673	Aug. 21	1447	405 406	24	775

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Shaw, Philip B. (See Hewett and Leonard, assignors.)						
Shaw, Philip B. (See Hewett and Millen, assignors.)						
Shaw, S. Wheeler, Chicago, Ill. Cot-settee	284,680	Sept. 11	641	181	24	1018
Shaw, Samuel. (See Wright, Fowler, and Shaw.)						
Shaw, Sumner, Boston, Mass. Nut-lock	290,712	Dec. 25	1711	471	25	1209
Shaw Telephonic Company of America. (See Shaw, George E., assignor.)						
Shaw, Thomas, Philadelphia, Pa. Disinfecting-candle	281,798	July 24	1848	505	24	340
Shaw, Thomas, Newark, N. J. Telegraph-wire	289,575	Dec. 4	255	72	25	932
Shaw, William, Paris, Ky. Grain-cleaning apparatus	272,782	Feb. 20	1508	425	23	719
Shaw, William, Bay City, Mich. Blacksmith's forge	287,180	Oct. 23	1774	487	25	342
Shaw, William, assignor to White Sewing Machine Company, Cleveland, Ohio. Shuttle-carrier for sewing-machines	276,485	Apr. 24	9071	575	23	1605
Shaw, William A., Brooklyn, N. Y. Combined electric light and gas-burner	271,140	Jan. 23	1617	465	23	326
Shaw, William A., Brooklyn, assignor of one-half to L. H. Rogers, New York, N. Y. Electrical conductor or cable for lighting and other systems	290,122	Dec. 11	928	263	25	1056
Shaw, William A., Pittsburg, Pa., assignor of one-half to L. H. Rogers, New York, N. Y. Electrical conductor	290,121	Dec. 11	927	263	25	1058
Shaw, William F., and A. S. Dinsmore, Boston, Mass. Gas-stove	285,311	Sept. 18	1406	398	24	1162
Shay, Ephraim. (See Doxsie, George W., assignor.)						
Shaylor, Lucien K., *et al.* (See Knowlton, William W., assignor.)						
Sheaffer, Frederick, Liverpool township, Perry county, Pa. Straddle-row cultivator	279,823	June 19	1488	417	23	2392
Sheaffer, John W., Franklin, Pa. Car-coupling	288,502	Nov. 13	905	247	25	673
Sheard, Titus. (See Clark, Farrington, and Sheard.)						
Shearer, Frank B., assignor to himself and W. W. Sherar, Rochester, N. Y. Dental plate	269,966	Jan. 2	171	49	23	36
Shearman, Addison P., Jamestown, N. Y. Knockdown table	288,126	Nov. 6	414	117	25	580
Shearman, John D., Avondale, Ohio. Bucket-washing machine	285,312	Sept. 18	1408	398	24	1162
Shedd, William B., New York, N. Y., assignor of three-fourths to J. Metz, Jersey City, N. J., and S. C. Forsaith & Co., Manchester, N. H. Printing-press	286,337	Oct. 9	709	189	25	139
Shedlock, Alfred, Brooklyn, N. Y. Rock-drill	285,516	Sept. 25	1657	466	24	1211
Shedlock, Alfred, assignor to J. D. Shedlock, Brooklyn, N. Y. Rock-drilling machine	282,382	July 31	2593	712	24	472
Shedlock, Alfred, Brooklyn, N. Y., assignor to Star Electric Light and Power Company of the United States. Electric-arc lamp	277,166	May 8	831	219	23	1774
Shedlock, Alfred, Brooklyn, N. Y., assignor to Star Electric Light and Power Company of the United States. Electric-arc lamp	277,167	May 8	834	290	23	1774
Shedlock, Alfred, Brooklyn, N. Y., assignor to Star Electric Light and Power Company of the United States. Electric-lamp holder	277,168	May 8	836	220	23	1775
Shedlock, John D. (See Shedlock, Alfred, assignor.)						
Sheehan, James H., assignor of one-half to E. L. Sterns, Bangor, Me. Nut-lock	282,383	July 31	2595	713	24	473
Sheehan, Thomas, Dunkirk, N. Y. Composition of matter for preventing the occurrence of explosions	274,666	Mar. 27	1843	.....	23	1175
Sheehan, William J. (See Murphy, Edward T., assignor.)						
Sheehey, James, St. Albans, Vt. Box or case	274,038	Mar. 13	1010	277	23	1015
Sheehy, Robert J., New York, N. Y. Electric-arc lamp	279,824	June 19	1489	417	23	2392
Sheehy, Robert J., New York, N. Y. Electric-arc lighting system	279,825	June 19	1491	417	23	2392
Sheehy, Robert J., New York, N. Y. Combined current-indicator and commutator-adjuster for dynamo-electric machines	279,826	June 19	1493	417 / 418	23	2393
Sheehy, Robert J., New York, N. Y. Automatic cut-out for electric circuits	281,799	July 24	1849	505	24	340
Sheehy, Robert J., New York, N. Y. Electric-light regulator	281,800	July 24	1851	506	24	341
Sheehy, Robert J., New York, N. Y. Regulator for dynamo-electric machines	283,155	Aug. 14	810	226	24	650
Sheehy, Robert J., New York, N. Y. Switch-board for electric-light stations	284,247	Sept. 4	116	31, 32	24	924
Sheehy, Robert J., New York, N. Y. Electric-arc lamp	284,497	Sept. 4	411	117	24	973
Sheehy, Robert J., New York, N. Y. Dynamo-electric machine	285,691	Sept. 25	1864	532	24	1250
Sheehy, Robert J., New York, N. Y. Incandescent electric lamp	289,456	Dec. 4	97	28	25	904
Sheehy, Robert J., New York, N. Y. Recorder and register for electric lighting systems	289,862	Dec. 11	614	171	25	1001
Sheeler, William H., assignor to W. A. Tottle, Baltimore, Md. Whitewash-brush	288,187	Nov. 6	485	135	25	592
Sheets, Elizabeth, Casstown, Ohio. Fruit-drier	288,503	Nov. 13	906	247	25	673
Sheffield, George S., Three Rivers, Mich. Vehicle-wheel	279,449	June 12	1052	291	23	2310
Sheffield, George S., assignor, by mesne assignments, to Sheffield Velocipede Car Company, Three Rivers, Mich. Hand-car. (Reissue)	10,303	Apr. 3	616	166	23	1330
Sheffield, George V. (See Parks and Sheffield.)						
Sheffield, George V. (See Wuterich and Sheffield.)						
Sheffield, Lucius T. (See Richmond, Alvan S., assignor.)						
Sheffield Velocipede Car Company. (See Hegan, John A., assignor.)						
Sheffield Velocipede Car Company. (See Linsley, Edward B., assignor.)						
Sheffield Velocipede Car Company. (See Sheffield, George S., assignor.) (Reissue.)						
Sheffield Velocipede Car Company. (See Willits, Warren J., assignor.)						
Sheffield & Wuterich Sewing Machine Company. (See Wuterich and Sheffield, assignors.)						
Shefler, Connell B., *et al.* (See Gray and Hallenback, assignors.)						
Shefler, Conrad B., *et al.* (See Gray, Josiah, assignor.)						
Shelbourne, Sidney F., New York, N. Y. Insulating compound for electric conductors	275,422	Apr. 10	730	.....	23	1360
Shelbourne, Sidney F., New York, N. Y. Mold for insulating subterranean electric cables	275,423	Apr. 10	732	194	23	1360
Shelbourne, Sidney F., New York, N. Y. Electric cable	275,424	Apr. 10	733	195	23	1360
Shelbourne, Sidney F., New York, N. Y. Subterranean electric cable	275,425	Apr. 10	736	195	23	1360
Shelburne, Cephas, Johnson City, Tenn. Gas-engine	277,618	May 15	1363	367 / 368	23	1871
Shelby, Christopher C., New York, N. Y. Sleeve-adjuster	273,770	Mar. 13	693	186	23	961
Shelby, Christopher C., New York, N. Y. Suspender-end	280,964	July 10	777	215	24	143
Shelby, Christopher C., New York, assignor of one-half to E. F. Gurley, Brooklyn, N. Y. Suspender-end	273,768	Mar. 13	692	186	23	960
Shelby, Christopher C., New York, assignor of one-half to E. F. Gurley, Brooklyn, N. Y. Suspender-end	273,769	Mar. 13	693	186	23	961
Sheldon & Co. (See Cagney, Timothy J., assignor.)						
Sheldon & Co. (See Phillips, Henry F., assignor.)						
Sheldon, Frank L. (See Lynch and Sheldon.)						
Sheldon, Henry H., Pawtucket, R. I. Gas-stove	285,170	Sept. 18	1252	351	24	1139
Sheldon, Philo B., Erie, Pa. Washing-machine	274,396	Mar. 20	1482	407	23	1105
Sheldon, Philo B., Erie, Pa. Coffee-roaster and corn-popper	289,312	Nov. 27	1887	526	25	864
Shelfer, William H., Concord, Fla. Machine for beating and cleaning rice	275,426	Apr. 10	738	195 / 196	23	1361
Shellaberger, Edward F., Dayton, Ohio. Picket fence	284,337	Sept. 4	218	61	24	941
Shellaberger, Kirk L., Dayton, Ohio. Barbed-wire fencing	272,091	Feb. 13	630	171	23	561
Shellenberger, John, assignor of one-half to C. P. Jacobs, Indianapolis, Ind. Wooden bottle-wrapper	272,910	Feb. 27	1695	474	23	758
Shellenberger, William E., Woodland, Cal. Bag-holder	271,930	Feb. 6	421	115	23	514
Shelley, Benjamin N., Anderson, Ind. Vehicle-wheel	270,493	Jan. 9	805	235	23	167

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Shelton, Dyas, Santa Rosa, Cal. Rub-iron for vehicles	275,865	Apr. 17	1306	359	23	1465
Shelton, Dyas, Santa Rosa, Cal. Device for securing wheel-tires	289,719	Dec. 4	440	123	25	963
Shenfield, Abraham. (See Petchaft, Bernard, assignor.)						
Shenton, George G. (See French and Shenton.)						
Shepard, Albert H. (See Shocker and Shepard.)						
Shepard, Amos, Plantsville, Conn. Hinge	282,576	Aug. 7	123	36, 37	24	521
Shepard, Charles G., and P. Adams, Jr.; said Adams assignor to W. J. Shepard, Buffalo, N. Y. Blind-hinge	292,470	July 31	2706	744	24	492
Shepard, Charles S., Raymond, N. H. Lightning-arrester	287,875	Nov. 6	104	31	25	525
Shepard, Charles T., assignor of one-half to W. Appleton, Jr., Albany, N. Y. Trundle-crib	274,982	Apr. 3	126	35	23	1247
Shepard & Co., Sidney. (See Woeppel, Ignatz, assignor.)						
Shepard, Edson E., Watertown, assignor of one-half to T. Rowlee, Morristown, N. Y. Sash-holder	286,559	Oct. 9	973	262	25	187
Shepard, Edwin, Goshen, Va. Feed-hopper and bell for blast and other furnaces	274,667	Mar. 27	1844	513	23	1175
Shepard, Edwin, Newark, N. J. Chart-hanging	286,736	Oct. 16	1206	325	25	234
Shepard, Frederick M., East Orange, N. J. Rubber boot and shoe	288,127	Nov. 6	415	117	25	580
Shepard, Freedom G., A. J. Hoag, and A. Thomson, assignors to Nichols, Shepard & Company, Battle Creek, Mich. Reversing-gear for engines	292,932	Aug. 7	538	152	24	596
Shepard, George B., Ogdensburg, N. Y. Label-bottle	283,825	Aug. 28	1642	462	24	822
Shepard, George E., Troy, N. Y. Letter-file	286,233	Oct. 9	551	151	25	111
Shepard, Henry W., Brooklyn, assignor to Iron Clad Manufacturing Company, New York, N. Y. Bottom-support	272,590	Feb. 20	1269	354	23	676
Shepard, John, assignor of one-half to J. R. Kuykendall, Carmi, Ill. Smoke blower and burner combined	289,863	Dec. 11	615	171	25	1001
Shepard, Luther D., Boston, Mass. Dental-disk holder	282,384	July 31	2596	713	24	473
Shepard, Luther D., Boston, Mass. Holder for abrasive disks	282,385	July 31	2596	713	24	473
Shepard, Morrill A., Lebanon, Ill. Apparatus for drying and cleaning grain and ventilating buildings	273,900	Mar. 13	851	230	23	987
Shepard, Morrill A., Lebanon, Ill. Crusher and pulverizer	277,071	May 8	711	184	23	1753
Shepard, Orry M., Boston, Mass. Train-indicator	272,783	Feb. 20	1509	425	23	720
Shepard, Robert B., Pittsburg, Pa. Composition of matter for the manufacture of glass	285,436	Sept. 25	1567	.....	24	1194
Shepard, Rufus G. (See Cowan, Charles D., assignor.)						
Shepard, Walter J. (See Shepard and Adams, assignors.)						
Shepardson & Co., F. L. (See Herring, Henry M., assignor.)						
Shepardson, Edward D., Bellevue, Ohio. Float	274,833	Mar. 27	2033	566	23	1208
Shepherd, Charles C., Passaic, N. J. Manufacture of dominos, checks, and similar articles	274,668	Mar. 27	1845	514	23	1175
Shepherd, Edward M. (See Rivers, Thomas L., assignor.)						
Shepherd, Francis H., and J. W. Meyer, Davenport, Iowa. Tag for wall-paper, &c	279,192	June 12	728	200	23	2258
Shepherd, George R., Hartford, assignor of one-half to W. E. Simonds, Canton, Conn. Telephone	286,737	Oct. 16	1208	325	25	234
Shepherd, Henry S. (See Hendricks, Adam C., assignor.)						
Shepherd, J. Hooper. (See Richardson, Samuel T., assignor.)						
Shepherd, J. Hooper, *et al.* (See Blakeslee, Burton E., assignor.)						
Shepherd, James R., assignor of one-third to C. J. Howe, Cleburne, Tex. Packing attachment for baling-presses	277,619	May 15	1366	368	23	1872
Shepherd, John H., and H. H. Beuschoten, Huron, Ohio. Vapor-stove	278,752	June 5	96	27	23	2140
Shepherd, Joseph H., Auburndale, Mass. Spike-machine	283,674	Aug. 21	1448	406, 407	24	776
Shepherd Nailing Machine Company. (See Carter, Francis M., assignor.)						
Shepherd, Samuel, Nashua, N. H. Boot and shoe nailing machine	272,486	Feb. 20	1137	319, 320	23	654
Shepler, James M. F. (See Stone and Shepler.)						
Shepler, Pius L., assignor of one-half to W. H. Cray and A. E. Rood, Toledo, Ohio. Folding desk	272,164	Feb. 13	719	198	23	576
Shepler, Pius L., assignor of one-half to W. H. Cray and A. E. Rood, Toledo, Ohio. Folding school seat and desk	272,165	Feb. 13	720	198	23	576
Shepler, Pius L., assignor of one-half to W. H. Cray and A. E. Rood, Toledo, Ohio. Folding seat	272,166	Feb. 13	721	198	23	577
Sheppard, Charles, Bridgend, county of Glamorgan, England. Apparatus for washing and delivering coal, &c	283,156	Aug. 14	811	227	24	650
Sheppard, David, *et al.* (See Davidson, George, assignor.)						
Sheppard, John P., Canton, N. J. Can-filler	274,039	Mar. 13	1011	277	23	1015
Sherar, William W. (See Shearer, Frank B., assignor.)						
Sherard, William C., Monterey, S. C. Back-band hook for harness	288,128	Nov. 6	415	118	25	580
Sherburne, Samuel. (See De Beaumont, Alexandre, assignor.)						
Sherer, William H., Binghamton, N. Y. Door-spring	274,397	Mar. 20	1483	408	23	1105
Sheridan, Cornelius A., assignor of one-half to F. McGough, Detroit, Mich. Refrigerator	269,887	Jan. 2	75	23	23	17
Sheridan, David G. (See White and Sheridan.)						
Sheridan, David G., Bridgeport, Conn. Snap-hook	271,372	Jan. 30	1920	555	23	386
Sheridan, Thomas W., New York, N. Y. Ale-cooling measure	286,967	Oct. 16	1495	411	25	284
Sherman, Aaron, assignor of one-half to J. Sherman, Charlotte, Mich. Bag-holder	285,692	Sept. 25	1870	533	24	1251
Sherman, Anna, Alameda, Cal. Steam-cooker	273,901	Mar. 13	852	231	23	988
Sherman, Charles E., San Francisco, Cal. Siphon	275,530	Apr. 10	871	235	23	1383
Sherman, I. N. Walter, Des Plaines, Ill. Sash-holder for street-car windows	277,793	May 15	1564	426	23	1908
Sherman, Jessie. (See Sherman, Aaron, assignor.)						
Sherman, John E., North Attleborough, Mass. Scratch-gage	290,807	Dec. 25	1835	507	25	1231
Sherman, John S., Napoleon, Ohio. Carpet-stretcher	285,313	Sept. 18	1409	398	24	1162
Sherman, Lewis P., Biddeford, Me. Machine for drawing in warp-threads	292,124	July 31	2270	622, 623, 624	24	417
Sherman, Louis, Philadelphia, Pa. Vegetable-slicer	284,078	Aug. 28	1969	548	24	879
Sherman, Marshall. (See Chadwick, Jay R., assignor.)						
Sherman, William J., St. Augustine, Fla. Well-boring machine	277,794	May 15	1565	426, 427	23	1909
Sherman, William J., St. Augustine, Fla. Wrench	283,675	Aug. 21	1450	407	24	776
Sherriff, William J., Pittsburg, Pa. Double-headed ejector	277,072	May 8	711	185	23	1753
Sherry, Daniel, Connersville, Ind. Stacker for thrashers	272,487	Feb. 20	1141	320	23	654
Sherry, Daniel, Connersville, and F. W. Robinson, Richmond, Ind. Stacker-base for thrashers	272,488	Feb. 20	1142	320	23	654
Sherry, Thomas, Neenah, Wis. Carriage-axle cutter	280,678	July 3	407	114	24	73
Sherwood, Alphonso S. (See Mulford, Ichabod H., assignor.)						
Sherwood, Alvin, Burlington, Kans. Wind-wheel	272,489	Feb. 20	1143	321	23	655
Sherwood, Arthur H., Southport, Conn. Garden-seed drill	277,620	May 15	1367	368	23	1872

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Sherwood, Henry C. (See Doolittle and Sherwood.)						
Sherwood, Joseph W. (See Woodard, James H., assignor.)						
Sherwood, Orsamus, Cleveland, Ohio. Vessel-unloading apparatus	274,983	Apr. 3	128	36	23	1247
Sherwood, Merrill B., Jr., and G. C. Farnsworth, Buffalo, N. Y. Process of and apparatus for manufacturing soap	271,281	Jan. 30	1792	520	23	364
Shetter, John W. (See Ghaler, Peter C., assignor.)						
Sheward, Edward G., Richmond, county of Surrey, and J. Gresham, Salford, county of Lancaster, England. Injector	285,171	Sept. 18	1254	352	24	1133
Shibe, Benjamin F., Philadelphia, Pa. Base-ball	272,984	Feb. 27	1778	497	23	772
Shick, William. (See Miller, Franklin, assignor.)						
Shickle, Frederick, St. Louis, Mo. Pipe-mold	289,034	Nov. 27	1561	431	25	803
Shickle, Frederick, St. Louis, Mo. Forming molds and cores in pipe-making	289,035	Nov. 27	1561	431	25	803
Shickle, Frederick, St. Louis, Mo. Pipe-molding machine	289,036	Nov. 27	1565	432	25	804
Shickle, Frederick, St. Louis, Mo. Apparatus for forming cores and molds	289,037	Nov. 27	1566	432	25	804
Shield, Henry, *et al.* (See Beechey, Charles G., assignor.)						
Shields & Brown. (See Pierce, James D., assignor.) (Reissue.)						
Shields, Charles A., Washington, D. C. Parallel ruler	289,457	Dec. 4	98	28	25	904
Shields, Edward J., Elizabethport, N. J. Furnace or stove door latch	273,172	Feb. 27	2009	565	23	813
Shields, Francis M., Coopwood, assignor to himself and S. T. Shields, W. D. Cornwell, L. Liebenfeld, H. Herman, M. W. Conner, J. F. Sharp, and J. N. Woodward, Louisville, Miss. Machine-gun	292,787	Aug. 7	374	106	24	566
Shields, Henry C., Troy, N. Y. Gas-generating apparatus	277,852	May 15	1633	445	23	1921
Shields, James H., Boston, Mass. Fountain-pen	287,060	Oct. 23	1621	446	25	313
Shields, James H., Boston, assignor of one-third to E. B. Marsh, Amherst, Mass. Spring-bed and spring	273,401	Mar. 6	209	56	23	869
Shields, John, Hancock, Mich. Locomotive-cab window	276,907	May 1	478	126	23	1710
Shields, John, Perth, county of Perth, Scotland. Oil-discharging buoy	289,720	Dec. 4	440	123	25	963
Shields, Sarah T., *et al.* (See Shields, Francis M., assignor.)						
Shields, Thomas, St. Louis, Mo. Drive-chain	286,338	Oct. 9	711	190	25	139
Shimer, George, J., Freemansburg, assignor of one-half to S. J. Shimer, Milton, Pa. Brake-shoe	272,911	Feb. 27	1696	475	23	758
Shimer, George J., Freemansburg, assignor of one-half to S. J. Shimer, Milton, Pa. Crushing and grinding machine	287,876	Nov. 6	105	31, 32	25	526
Shimer, Milton J., Freemansburg, Pa. Manufacture of sad-irons	284,249	Sept. 4	119	32	24	925
Shimer, Samuel J. (See Shimer, George J., assignor.)						
Shimp, William, Naperville, Ill. Two-wheeled vehicle	290,123	Dec. 11	930	264	25	1059
Shinabery, Michael and S., Melrose, Ohio. Spade	285,693	Sept. 25	1871	533	24	1251
Shinabery, Samuel. (See Shinabery, Michael and S.)						
Shindelbower, Richard D., and H. Pressler, Louisville, Ky. Sugar-evaporator	279,450	June 12	1053	291	23	2310
Shinn, John, and A. F. Fuller, Philadelphia, Pa. Machinery for breaking and scutching flax, &c	277,517	May 15	1237	333	23	1851
Shinn, John K. (See Shinn, Joseph A., assignor.)						
Shinn, Joseph A., Pittsburg, assignor of one-half to J. K. Shinn, New Castle, Pa. Mortar and building composition	280,679	July 3	408	.....	24	73
Shinn, William P., *et al.* (See Rumble, William, assignor.)						
Shipherd, William C., Cleveland, Ohio. Fifth-wheel	281,307	July 17	1209	335	24	227
Shipherd, William C., assignor of one-half to F. H. Strieby, Cleveland, Ohio. Ratchet wrench and drill	278,053	May 22	1878	514	23	1969
Shipley, Alfred J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Eyeleting-machine	284,911	Sept. 11	924	260	24	1069
Shipman, Asa L. (See Rile, John L., assignor.)						
Shipman, George, West Bridgewater, Mass. Eyeleting-machine	288,373	Nov. 13	742	202	25	644
Shipman, Edward L., *et al.* (See Williams, Henry S., assignor.)						
Shipman, James D., *et al.* (See Williams, Henry S., assignor.)						
Shipman, William H., Newark, N. J. Spring bed-bottom	272,167	Feb. 13	722	199	23	577
Shireman, Henry L., Nazareth, Pa. Car-coupling	290,276	Dec. 18	1122	315	25	1100
Shirley, Daniel, New Market, Va. Paper bag	273,902	Mar. 13	853	231	23	968
Shirley, Daniel, New Market, Va. Cutter-bar for harvesters	280,250	June 26	2008	564	23	2490
Shirley, Daniel, New Market, Va. Foot-warmer	287,061	Oct. 23	1622	447	25	310
Shirpser, Isidor, assignor to P. Steck, San Francisco, Cal. Heating apparatus for cars	281,801	July 24	1853	506	24	341
Shive, David, assignor of one-half to B. F. DuBois, Philadelphia, Pa. Spring-motor	279,827	June 19	1496	418	23	2303
Shive, David, assignor of one-half to B. F. DuBois, Philadelphia, Pa. Compensation-pendulum	279,828	June 19	1497	418	23	2303
Shive, David, assignor of one-half to B. F. DuBois, Philadelphia, Pa. Watch-regulator	284,079	Aug. 28	1970	549	24	879
Shive, David, assignor of one-half to B. F. DuBois, Philadelphia, Pa. Gravity-escapement for clocks	287,181	Oct. 23	1775	487	25	342
Shively Samuel H., Fremont, Ohio. Washer	271,373	Jan. 30	1921	555	23	386
Shiver, Elisha, assignor to R. R. Donaldson and W. T. Keenan, Washington, D. C. Shot-machine	271,374	Jan. 30	1922	556	23	386
Shivler, Charles S., Brooklyn, N. Y. Electric call apparatus	281,931	July 24	2009	550	24	369
Shocker, Paul, and A. H. Shepard, Providence, R. I. Carriage-button	283,676	Aug. 21	1451	408	24	776
Shockley, David W. (See Mahony and Shockley.)						
Shoemaker, Charles F., and E. J. Hess; said Shoemaker assignor to A. Hess, Cincinnati, Ohio. Machine for forming springs	272,912	Feb. 27	1697	475	23	758
Shoemaker, George A. (See Wardman, William, assignor.)						
Shoemaker, Jacob, assignor of one-half to F. Thornely and B. Ott, La Crosse, Wis. Evaporating-pan	272,784	Feb. 20	1510	426	23	720
Shoemaker, John, Garner, Iowa. Weather-strip	281,802	July 24	1854	506	24	341
Shoeninger, Adolph. (See Arbogast, George, assignor.)						
Shoeninger, Adolph. (See Henneberg, Henry, assignor.)						
Shoeninger, Adolph (See Unzicker, Otto, assignor.)						
Shone, George, East St. Louis, Ill. Balanced slide-valve	277,795	May 15	1566	427	23	1909
Shone, George, East St. Louis, assignor of one-half to A. M. De Clercq, Belleville, Ill. Faucet	290,124	Dec. 11	931	264	25	1059
Shoninger, B. (See Lomas, John R., assignor.)						
Shoptaugh, Nicholas, Booneville, Ind. Spark-arrester	282,933	Aug. 7	539	152	24	596
Shorey, Samuel W., Boston, Mass. Button	283,032	Aug. 14	667	188	24	626
Shorey Spring Bed and Shade Roller Company. (See Graves, Marshall E., assignor.)						
Short, George C., and W. L. Roe, assignors of one-fourth to A. G. Davidson, New London, Conn. Car-coupling	286,492	Oct. 9	885	239	25	171
Short, Samuel, Brooklyn, N. Y. Egg or batter beater	273,173	Feb. 27	2010	565	23	813
Shortridge, William P., Jr., and William P., Easton, Mo. Grain-drill	279,027	June 5	506	137, 138, 139	23	2209

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Shortsleeve, David, assignor of one-half to E. A. Morse, Rutland, Vt. Machine for sawing stone	283,929	Aug. 28	1762	497, 498	24	843
Shoudy, George A., Rockford, Ill. Lifting mechanism	274,834	Mar. 27	2034	566	23	1208
Shoup, James C., St. Louis Mo. Conductor's fare-recorder	286,493	Oct. 9	886	240	25	171
Shoup, James C., assignor of six-tenths to J. Franklin and G. M. Wright, St. Louis, Mo. Autographic registering apparatus	286,560	Oct. 9	974	262	25	187
Shoup, James T., Jr., Delaware, Ohio. Band-cutter	284,765	Sept. 11	750	208	24	1037
Shoupe, Winfield S., Elyria, and T. Buskirk, assignors of one-third to W. Kline, Toledo, Ohio. Combined telephonic and burglar-alarm system	279,193	June 12	729	200	23	2258
Shourds, Charles F., Newark, N. J. Shade-roller	275,531	Apr. 10	872	236	23	1383
Shourds, Charles F., Newark, N. J. Toy	278,462	May 29	2427	662	23	2073
Shourds, Charles F., Newark, N. J. Toy	288,265	Nov. 13	595	163	25	619
Shorey, George L., Lynn, Mass. Centrifugal machine	288,129	Nov. 6	416	118	25	580
Showalter, Abraham, Pataskala, Ohio. Scroll-saw and edge-molder	272,785	Feb. 20	1511	426	23	720
Showalter, Jeremiah, Okonoko, W. Va., assignor of one-half to A. and D. Barth, Oldtown, Md. Car-coupling	273,903	Mar. 13	853	231	23	988
Shreffler, Andrew H. (See Dice, Andrew F., assignor.)						
Shreffler, Samuel, Jr., Joliet, Ill. Parlor-door hanger	281,308	July 17	1210	335	24	227
Shreve, Charles T., Delaware township, Camden county, N. J. Hood for vehicle-tops	276,908	May 1	478	126	23	1710
Shreve, Victor, assignor of one-half to B. Meeker, Detroit, Mich. Car-coupling	288,504	Nov. 13	907	248	25	673
Shreves, William A., *et al.* (See Dow and Chandler, assignors.)						
Shrewder, Robertson F., *et al.* (See Freeman, Walter F., assignor.)						
Shrieves, Charles D., and J. E. Cook, Philadelphia, Pa. Laying underground electric wires	276,486	Apr. 24	2071	575	23	1605
Shriver, Daniel R., Manchester, Ohio. Churn-dasher	285,694	Sept. 25	1871	533	24	1251
Shroff, Samuel A. (See Smith, Israel E., assignor.)						
Shroyer, A. R. (See Marshall, William P., assignor.)						
Shuck, John M., *et al.* (See Moore, James D., assignor.)						
Shue, Abraham W., Fishersville, Va. Wagon-brake	279,829	June 19	1498	419	23	2394
Shuler, Andrew F., Arcanum, Ohio. Shifting-rail	281,146	July 10	995	278	24	183
Shuler, David, New Dover, Ohio. Table-leaf support	279,986	June 26	1693	475	23	2434
Shull, John, *et al.* (See Baker, William T., assignor.)						
Shults, John W., Van Wert, Ohio. Dental plate	277,796	May 15	1567	427	23	1909
Shumaker, Charles F., Silver Creek, N. Y. Grain-cleaning machine	273,174	Feb. 27	2011	565, 566	23	814
Shuman, Charles, Rockford, Ill. Universal-joint coupling	272,339	Feb. 13	932	259	23	613
Shumard, Sarah S. (See Shumard, Warren, assignor.)						
Shumard, Warren, assignor to S. S. Shumard, Richmond, Ind. Sash-balance	285,079	Sept. 18	1136	317	24	1113
Shumway, Edward A., Walnut Creek, Cal. Step-ladder	283,524	Aug. 21	1275	357	24	742
Shupe, Eli. (See Durant and Shupe.)						
Shute, Jay F., *et al.* (See Moore and Heaberlin, assignors.)						
Shute, John W. (See Groves, Leroy S., assignor.)						
Shute, Joseph B., *et al.* (See Clark, Albert M., assignor.)						
Shute, Joseph M. and L. M., Philadelphia, Pa. Excavating apparatus	290,488	Dec. 18	1406	389	25	1150
Shute, Lorenzo M. (See Shute, Joseph M. and L. M.)						
Shute, Richard G., Edgartown, Mass. Androides or automaton shoe-factory	284,338	Sept. 4	219	61	24	941
Shute, Samuel E., and J. C. Albright, Richmond, Ind., assignors of one-third to J. S. Zeller. Stove-pipe fastening	274,835	Mar. 27	2036	567	23	1209
Shuttleworth, Charles H. (See Kelsey and Shuttleworth.)						
Sibley, Edward L., Bennington, Vt. Center-board for boats	282,386	July 31	2597	713	24	473
Sibley, Ezra F. (See Granger and Sibley.)						
Sibley, Frank A. (See Humphrey, Dennison, assignor.)						
Sibley, Franklin, Sutton, Mass. Butter holder or jar	277,948	May 22	1749	477	23	1945
Sibley, Gideon, Philadelphia, Pa. Crushing and pulverizing machine	275,719	Apr. 10	1106	303	23	1423
Sichel, Albert, *et al.* (See Chinnock, George H., assignor.)						
Sickels, Frederick E., New York, N. Y. Steam steering apparatus	273,617	Mar. 6	482	129, 130	23	916
Sickles, Gerard, Jr., assignor of one-half to A. T. Howard, Brooklyn, N. Y. Machine for making envelopes	271,282	Jan. 30	1794	521	23	364
Sickles, William C., Dallas, Tex. Windmill	279,194	June 12	731	200	23	2258
Siddeley, John, *et al.* (See Young and Neilson, assignors.)						
Siddeley, John, and F. N. Mackay, Liverpool, England. Apparatus for refrigerating oils, fats, &c	277,797	May 15	1568	428, 429	23	1909
Siddeley, Joshua, *et al.* (See Young and Neilson, assignors.)						
Sidersky, David, and H. Probst, Rositz, Germany. Obtaining carbonate of strontium	278,283	May 22	2172	508	23	2019
Sidnell, William E., Cuyahoga Falls, Ohio. Lathe-dog	282,577	Aug. 7	124	37	24	522
Siebert, Frederick. (See Danziger, Adolph, assignor.)						
Siegel, F., Jr., *et al.* (See Collins, M. Grier, assignor.)						
Siegley, Jacob, New York, N. Y. Bench-plane	269,967	Jan. 2	173	50	23	36
Siegley, Jacob, New York, N. Y. Bench-plane	269,968	Jan. 2	173	50	23	36
Siemens Brothers & Company. (See Jacob, Frank, assignor.)						
Siemens, Charles W., Westminster, county of Middlesex, England. Gas-producer	282,387	July 31	2599	714	24	474
Siemens, Charles W., Westminster, county of Middlesex, England. Gas-producer	288,877	Nov. 20	1364	374, 375	25	760
Siemens, Charles W., Westminster, county of Middlesex, England. Gas-producer and furnace operating in connection therewith	288,878	Nov. 20	1366	376, 377	25	761
Siemens, Frederick, Dresden, Germany. Lamp	270,345	Jan. 9	618	182, 183	23	131
Sies, Enos L. (See Doherty and Sies.)						
Sievern, Gustav F., Pittsburg, Pa. Chain driving-gear for locomotives, steamboats, &c	280,091	June 26	1825	513	23	2457
Sigwalt, John, Jr., Chicago, Ill. Sewing-machine	275,427	Apr. 10	738	196, 197	23	1361
Sigwalt Sewing Machine Company. (See Curtis, William R., assignor.)						
Silberman, Adam, *et al.* (See Schmidt, Christian, assignor.)						
Silberstein, Morris, New York, N. Y. Suspender-end	276,909	May 1	479	126	23	1710
Silcott, Oscar F., Felicity, Ohio. Shipping-case	271,283	Jan. 30	1800	522	23	365
Sill, John M. B., Detroit, Mich. Map-drawing	280,965	July 10	778	216	24	143
Siller, Frank. (See Kessler, Johann K., assignor.)						
Silliman, Herbert R., assignor to himself, A. H. Whitten, and G. W. Lascell, Lynn, Mass. Last-block fastener	281,147	July 10	996	278	24	183
Sillman, Henry R., Brooklyn, N. Y. Bronzing-machine	277,621	May 15	1369	369	23	1872
Silsby Manufacturing Company. (See Medden, Edwin, assignor.)						
Siltz, Frank R., assignor, by mesne assignments, to S. Siltz, Leon, Iowa. Ventilator	280,092	June 26	1826	513	23	2458
Siltz, Sabina. (See Siltz, Frank R., assignor.)						
Silver, Samuel N., Auburn, Me. Motor	281,571	July 17	1535	421	24	281

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Silver, Thomas, assignor to S. E. May, New York, N. Y. Clock-work for mechanical lamps	287,334	Oct. 23	1968	537	25	376
Silvey, William L., Castleton, Ind. Electric motor	269,888	Jan. 2	76	24	23	17
Simar, Ephraim, West Union, Iowa, and V. D. Simar, St. Paul, Minn. Horseshoe	281,932	July 24	2011	551	24	370
Simar, Vine D. (See Simar, Ephraim and V. D.)						
Simar, Vine D., and J. Dale, St. Paul, Minn. Excavator	278,368	May 29	2313	633	23	2052
Simar, Vine D., and J. Dale, St. Paul, Minn. Car-unloading apparatus	282,125	July 31	2274	624	24	418
Simis, Cæsar, Brooklyn, N. Y. Hat or cap lining	279,830	June 19	1499	419	23	2394
Simkins, Lebbeus, Marshfield, Oreg. Apparatus to prevent boiler-explosions	281,803	July 24	1854	507	24	342
Simkins, Miles W., Newburg, Ontario, Canada. Needle-clamp for sewing-machines	279,607	June 19	1241	344	23	2349
Simmonds, Fernandize M., Indianapolis, Ind. Two-wheeled vehicle	281,309	July 17	1211	315	24	227
Simmonds, William, Yonkers, N. Y. Machine for starting and sizing hats	278,614	May 29	2008	711	23	2104
Simmons, Edmond S., assignor of one-half to G. A. Leonard, Fowlerville, Mich. Bean-harvester	280,966	July 10	779	216	24	143
Simmons, Edward B. (See Sanderson and Simmons.)						
Simmons, George H., Taunton, Mass. Vehicle hub and axle	273,618	Mar. 6	484	130	23	917
Simmons, John B., assignor of one-half to C. R. Arnold, Philadelphia, Pa. Cut-off-valve gear	290,808	Dec. 25	1836	507	25	1231
Simmons, John P., San Francisco, and S. Adams, Antioch, Cal. Magazine-gun	275,085	Apr. 3	271	74	23	1272
Simmons, Myron E., assignor of one-half to S. H. Mizenes, Rocky Ridge, Ohio. Buckle for harness, &c	279,028	June 5	510	139	23	2210
Simmons, Peter A., and C. J. Henry, Leadville, Colo. Ore-concentrator	289,152	Nov. 27	1701	472 473	25	827
Simmons, Robert F., *et al.* (See Becker, Franck, assignor.)						
Simmons, Robert F., *et al.* (See White, Jarvis N. B., assignor.)						
Simmons, Thomas. (See Donnelly, William E., assignor.)						
Simmons, Thomas A., assignor, by mesne assignments, to himself, W. A. Underwood, and D. McMillan; said McMillan assignor to C. M. McMillan, Wooster, Ohio. Hame-tug. (Reissue)	10,287	Feb. 13	1022	285	23	628
Simmons, Thomas F., Ardencote, Thornhill Road, Croydon, county of Surrey, England. Perambulator	281,933	July 24	2012	551	24	370
Simms, James F., and J. W. Cody, assignors of one-third to F. Fontneau, Attleborough, Mass. Chain-swivel	271,375	Jan. 30	1923	556	23	387
Simon, Amaury, and V. Petit, St. Nicolas de Redon, France. Manufacturing artificial stone or metal	272,786	Feb. 20	1513	.....	23	720
Simon, Edward, Newark, N J. Handle for satchels, bags, &c	270,852	Jan. 16	1263	364	23	262
Simon, Joseph. (See Hahn, Charles F. C., assignor.)						
Simon, Robert, Weehawken, N. J. Power-loom	286,061	Oct. 2	372	103	25	68
Simon, William, Newark, N. J. Trunk	273,175	Feb. 27	2012	566	23	814
Simonds, Alvan A., Dayton, Ohio. Tempering-tank	277,518	May 15	1279	334	23	1852
Simonds, Alvan A., Dayton, Ohio. Guide for rolling-mills	280,093	June 26	1827	514	23	2458
Simonds, Frank A., Grand Rapids, Mich. Pipe-wrench	282,126	July 31	2276	625	24	418
Simonds, George W., assignor to himself, G. O. Carpenter, Boston, and J. F. Emerson, Wakefield, Mass. Table and mirror	290,361	Dec. 18	1228	346	25	1119
Simonds, Gustavus B., Sedalia, assignor of one-half to A. J. Robertson, St. Louis, Mo. Brake-shoe	289,313	Nov. 27	1888	526	25	864
Simonds, Nathaniel G., Charlestown, assignor of one-sixth to F. McMellon, Boston, Mass. Grain-elevator	281,572	July 17	1537	421	24	282
Simonds, William E. (See Burr, H. Jerome, assignor.)						
Simonds, William E. (See Shepherd, George R., assignor.)						
Simons, James Y., Pawtucket, R. I. Block-facing machine	287,478	Oct. 30	2148	584	25	418
Simons, Simeon, and O. Scofield, Creek Centre, N. Y. Link for chains	271,141	Jan. 23	1618	465	23	326
Simons, William L. (See Wildey and Simons.)						
Simonson, Jacob, Newark, N. J. Wire fabric and art of making the same	281,804	July 24	1855	507	24	342
Simonson, James H. (See Slater, Jacob G., assignor.)						
Simonson, Theodore, Hillsborough, Ohio. Hand-rail for stairways	287,968	Nov. 6	227	64	25	547
Simonton, Charles B., *et al.* (See McGregor, Rob Roy, assignor.)						
Simpson, Andrew J., assignor of five-sixths to T. J. Mayer, W. F. Farrish, F. P. Davis, W. H. Covington, and J. B. Wilson, Washington, D. C. Machine for breaking loaded shells	290,606	Dec. 18	1567	431	25	1177
Simpson, Charles P., and S. Wilson, Sullivan, Me. Cooking-utensil	286,082	Oct. 2	373	103	25	68
Simpson, Clarence D., *et al.* (See King, Sidney D., assignor.)						
Simpson, George, Bryan, Tex. Plow	280,680	July 3	409	114	24	73
Simpson, J. Fourestier. (See Okie and Simpson.)						
Simpson, James. (See Parnell, Edward W., assignor.)						
Simpson, James H., and J. T. Wilson, assignors to Wilson, Walker & Co., (limited,) Pittsburg, Pa. Car-coupling	275,720	Apr. 10	1108	303 304	23	1423
Simpson, James H., and J. T. Wilson, assignors to Wilson, Walker & Co., (limited,) Pittsburg, Pa. Car-coupling	275,721	Apr. 10	1110	304	23	1424
Simpson, Josiah M., Chicago, Ill. Display-body	290,489	Dec. 18	1409	389	25	1150
Simpson, Orin, Tampico, Ind. Harvester. (Reissue)	10,354	July 10	1102	304	24	201
Simpson, Orin, Tampico, Ind. Truck for moving harvesters	283,290	Aug. 14	960	273	24	682
Simpson, Robert A. (See Dawson and Simpson.)						
Simpson, Robert A. (See Dawson, Simpson, and Longcor.)						
Sims, Alfred, *et al.* (See Darling, James D., assignor.)						
Sims, James C., assignor to himself and H. O. Hornberger, Pittsburg, Pa. Apparatus for blacking molds for roll-pinions	282,676	Aug. 7	239	70	24	541
Sims, Robert. (See Randel and Sims.)						
Sinclair, George, Leith, county of Mid-Lothian, Scotland. Fuel-feeding device	288,505	Nov. 13	908	248	25	673
Sinclair, James D., Brooklyn, N. Y. Elevator attachment	285,437	Sept. 25	1567	441	24	1194
Sinclair, James E., Baltimore, Md. Valve for pumps	270,853	Jan. 16	1264	364	23	262
Sinclair, James E., Baltimore County, Md. Valve	279,451	June 12	1054	291	23	2310
Sinclair, James E., Baltimore County, Md. Direct-acting steam-pump	279,452	June 12	1055	292	23	2311
Sinclair, James E., Baltimore County, Md. Superheating steam-engine	279,453	June 12	1056	292	23	2311
Sinclair, James H., assignor of one-half to W. Malony, Denver, Colo. Buckboard-wagon	277,359	May 8	1053	282 283	23	1814
Sindoll, Thomas H., and W. B. Stewartson, Pittsburg, Pa. Compound for the manufacture of glass	270,901	Jan. 23	1446	.....	23	298
Singer, Jasper H., New York, N. Y. Toy theatrical stage	277,798	May 15	1572	429	23	1909
Singer Manufacturing Company. (See Diehl, Philip, assignor.)						
Singer Manufacturing Company of New Jersey. (See Miller and Diehl, assignors.)						
Singer, Peter J., Chicago, Ill. Safety attachment for elevators	277,073	May 8	712	185	23	1754
Singler, Jacob, St. Louis, Mo. Double-acting pump	290,125	Dec. 11	931	264	25	1059
Singleton, George, Paterson, N. J. Machine for doubling silk, &c	277,074	May 8	715	186	23	1754

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sinker, Davis & Co. (See Stephens, Samuel, assignor.)						
Sinker, Davis & Company. (See Groves, Henry W., assignor.)						
Sinton, George F., *et al.* (See Earl, Henry W., assignor.)						
Sipp, John P. (See Rhoades and Sipp.)						
Siqueira, Manuel J., Brooklyn, Cal. Brake-block	277,360	May 8	1053	283	23	1814
Sise, Horace F. (See Foster, John T., assignor.)						
Sisson, George W., Fredonia, N. Y. Dumping-wagon	279,029	June 5	511	139	23	2310
Sisum, William H. H., Brooklyn, N. Y. Machine for bunching match-sticks	281,408	July 17	1335	369, 370	24	248
Sisum, William H. H., Brooklyn, N. Y. Machine for bunching match-sticks	288,506	Nov. 13	909	248, 249	25	673
Sjölinder, Axel L., and E. Larson, South Pueblo, Colo. Wire-twister	270,494	Jan. 9	807	235	23	167
Skaats, Abraham. (See Castle and Skaats.)						
Skala, Venzl. (See Ekl, Skala, Hoyda, and Cizek.)						
Skank, George F., Lincoln township, Montgomery county, Iowa. Cultivator	272,490	Feb. 20	1145	321	23	655
Skeavington, John W. (See Selby, James H., assignor.)						
Skene, Alfred. (See Kühmaier, Franz, assignor.)						
Skillings, Hiram, New Bedford, Mass. Spade-wheel plow	271,142	Jan. 23	1618	465, 466	23	326
Skinner, A. Frank, Tama City, Iowa. Engraving-machine	285,695	Sept. 25	1872	533, 534	24	1252
Skinner, Andrew P. W., Chicago, Ill. Combined lamp filler, lighter, extinguisher, and torch	282,578	Aug. 7	125	37	24	522
Skinner, Charles A., *et al.* (See Rumsey, Charles B., assignor.)						
Skinner, Charles E., Yonkers, N. Y. Blacking-box holder	283,428	Aug. 21	1166	327	24	722
Skinner, Charles E., assignor to Smith Moquette Loom Company, Yonkers, N. Y. Loom for weaving tufted fabrics	270,346	Jan. 9	619	183	23	131
Skinner, Charles E., assignor to Smith Moquette Loom Company, Yonkers, N. Y. Loom for weaving tufted fabrics	270,495	Jan. 9	808	235, 236	23	168
Skinner, Charles E., assignor to Smith Moquette Loom Company, Yonkers, N. Y. Loom for weaving tufted fabrics	288,266	Nov. 13	595	163	25	620
Skinner, Charles E., assignor to Smith Moquette Loom Company, Yonkers, N. Y. Loom for weaving tufted fabrics	288,267	Nov. 13	597	164	25	620
Skinner, Charles E., and E. Tymeson, assignors to Smith Moquette Loom Company, Yonkers, N. Y. Loom for weaving tufted fabrics	288,268	Nov. 13	599	164	25	620
Skinner, Daniel M., Centre Sandwich, N. H. Parcel-transmitter for stores	287,182	Oct. 23	1776	487	25	342
Skinner, Halcyon, assignor to Smith Moquette Loom Company, Yonkers, N. Y. Loom for weaving moquette carpets	285,767	Sept. 25	1970	558, 559, 560	24	1267
Skinner, Henry M., assignor of one-half to R. Sager, Rockford, Ill. Rolling colter	287,733	Oct. 30	2493	671	25	483
Skinner, Henry M., assignor of one-half to R. Sager, Rockford, Ill. Rolling colter	288,672	Nov. 20	1113	306	25	716
Skinner, James N., New Britain, Conn. Lathe-chuck	269,889	Jan. 2	81	24	23	18
Skinner, Le Grand. (See Barnhurst and Skinner.)						
Skinner, Le Grand, Erie, Pa. Steam-engine crank-shaft	276,910	May 1	480	126	23	1710
Skinner, Le Grand, Erie, Pa. Cut-off-valve gear	282,388	July 31	2601	714	24	474
Skinner, Le Grand, Erie, Pa. Valve-gear	287,877	Nov. 6	107	32, 33	25	526
Skinner, Le Grand, Erie, Pa. Slide-valve for steam-engines	287,878	Nov. 6	109	33	25	526
Skinner, Le Grand, Erie, Pa. Governor and valve-gear	287,879	Nov. 6	110	33	25	527
Skinner, Le Grand, Erie, Pa. Mechanical movement	288,130	Nov. 6	418	118	25	581
Skinner, Le Grand, Erie, Pa. Cut-off-valve gear. (Reissue)	10,405	Nov. 6	504	139, 140	25	595
Skinner, Merrill R., Hamburg, N. Y. Fish-trap hook	286,494	Oct. 9	888	240	25	172
Skinner, Samuel W. (See Thomas, William M., assignor.)						
Skinner, Thomas M., Colorado Springs, Colo. Steam pile-driver	273,904	Mar. 13	856	232	23	968
Skoog, Rudolph, New York, N. Y. Whisk-broom holder	270,137	Jan. 2	366	106	23	75
Slack, Chester, Waynesville, Ill. Bed-spring	290,126	Dec. 11	932	264	25	1059
Slafter, Coroden J., Grand Junction, Mich. Lantern dinner-pail	270,610	Jan. 16	970	280	23	206
Slafter, J. C. (See Clausen, Adler C., assignor.)						
Slaght, Edwin, Gowanda, N. Y. Evaporator	286,646	Oct. 16	1091	294	25	214
Slater, Charles B., Blanchester, Ohio. Conveyer for flour-bolts, &c	277,622	May 15	1370	369	23	1873
Slater, Frank, Guthrie Centre, Iowa. Dental bracket	276,637	May 1	115	30	23	1647
Slater, George T. (See Lanthier, Edouard, assignor.)						
Slater, Jacob G., assignor of one-half to J. H. Simonson, Albany, N. Y. Car-coupling	275,428	Apr. 10	745	198	23	1362
Slater, John W., *et al.* (See Vaughan, Henry W., assignor.)						
Slater, Richard L., assignor to P. H. Bagley, San Francisco, Cal. Steam-boiler furnace	277,361	May 8	1054	283	23	1814
Slater, Warren G., assignor to A. Sweet, Fremont, Mich. Harness-buckle	278,054	May 22	1879	514	23	1969
Slater, William D., assignor to Morgan Envelope Company, Springfield, Mass. Envelope-machine	288,673	Nov. 20	1114	306, 307	25	716
Slaughenhaup, John N., assignor to H. S. Gilbert & Co., Chambersburg, Pa. Straw-cutter	273,619	Mar. 6	485	130	23	917
Slaughter, Henry B. (See Slaughter, Joel C., assignor.)						
Slaughter, Joel C., Chestertown, Md., assignor of one-half to H. B. Slaughter, Kansas City, Mo. Grain-drier	282,013	July 24	2105	577	24	384
Slauson, Willis D., Racine, Wis. Cotton and hay press	287,734	Oct. 30	2494	671, 672	25	483
Slawson, John B., New York, N. Y. Fare-box	272,591	Feb. 20	1270	354, 355	23	677
Slaymaker, Robert M. (See Iske, Anthony and A., assignors.)						
Slayton, Edward T. (See Goettel and Slayton.)						
Slayton, Nelson B., and W. D. Wells, Alfred Centre, N. Y. Mitten or glove	286,738	Oct. 16	1908	326	25	234
Sleeper, Charles F., Boston, assignor to Tate & Co., Malden, Mass. Device for holding cord, tape, &c	278,615	May 29	2609	711	23	2104
Sleeper, Charles F., Boston, assignor to Tate & Co., Malden, Mass. Picture-frame hanger	285,517	Sept. 25	1659	466	24	1212
Sleeth, James, and F. M. Lucas, Morristown, Ind. Chuck	271,941	Feb. 6	431	118	23	516
Sleeth, Robert, *et al.* (See Seaman, Joseph S., assignor.)						
Sleicher, John A., Troy, N. Y. Sleeping-car	273,620	Mar. 6	486	131	23	917
Sleicher, John A., Troy, N. Y. Sleeping-car	281,409	July 17	1338	370	24	249
Sleicher, John A., Troy, N. Y. Sleeping-car	281,410	July 17	1338	370	24	249
Slevin, James J., New York, N. Y. Refrigerating-catafalque	273,771	Mar. 13	695	187	23	961
Slingland, Nicholas, Falls Village, Conn. Railway-car steam-heater	284,250	Sept. 4	120	32, 33	24	925
Sliter, Jefferson B., and C. T. Bazzett, assignors of one-third to A. V. C. Vail, Waverly, N. Y. Vehicle spring	281,934	July 24	2013	551	24	370
Sloan, Alexander, Pittston, Pa. Hand-truck	275,951	Apr. 17	1401	386	23	1482
Sloan, Alexander, Newark, N. J., assignor of one-half to E. J. Hume, Hyde Park, Mass. Underground telegraph-wire conduit	274,522	Mar. 27	1671	464	23	1144

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sloan, Alexander, Newark, N. J., assignor to H. W. Peace Company, Brooklyn, N. Y. Crosscut-saw handle	286,968	Oct. 16	1496	411	25	284
Sloan, Frank, assignor to Adams & Westlake Manufacturing Company, Chicago, Ill. Pump for oil-tanks	272,340	Feb. 13	933	259	23	614
Sloan, Frank, assignor to Adams & Westlake Manufacturing Company, Chicago, Ill. Oil-stove	276,911	May 1	481	127	23	1710
Sloan, Frank, assignor to Adams & Westlake Manufacturing Company, Chicago, Ill. Oil-stove	285,696	Sept. 25	1873	534	24	1252
Sloan, Frank B. (See Clarkson, Frank S., assignor.)						
Sloan, Samuel. (See Fox, William T., assignor.)						
Sloan, William D., assignor to G. L. Clark, Brooklyn, N. Y. Wire nail	276,541	Apr. 24	2143	596	23	1617
Sloane, George W., Brooklyn, N. Y. Feed-water heater. (Reissue)	10,427	Dec. 18	1626	447	25	1187
Sloat, Erastus D., Carmel, N. Y. Lifting-jack	279,608	June 19	1242	344	23	2349
Sloat, Frederick, assignor of one-half to M. W. Perkins, Chicago, Ill. Car-coupling	281,935	July 24	2014	551	24	370
Slocomb, Abby L., and J. W. Day, New Orleans, La. Deodorizing perspiration-powder	279,195	June 12	732	.....	23	2258
Slocum, Edward L., Lancaster, Ohio. Druggist's percolator	278,284	May 22	2173	598	23	2019
Slocum, Wanton D., New Bedford, Mass. Neck-bow fastener	277,362	May 8	1055	284	23	1814
Sloma, J. H. (See Lane, Isaac T., assignor.)						
Sloper, Byron, New York, N. Y., assignor to himself, W. M. Jackson, and L. A. Cook, Providence, R. I. Steam-boiler furnace	285,366	Sept. 18	1475	415	24	1173
Slusher, Zachariah T., Mira Fork, Va. Churn	283,033	Aug. 14	669	188	24	626
Small, Charles O., Hallowell, Me. Balanced puppet-valve	275,722	Apr. 10	1113	304	23	1424
Small, Edward, Baltimore, Md. Comminuted soft solder	280,967	July 10	780	.....	24	143
Small, Edward, Baltimore, Md. Apparatus for and process of making comminuted solder	282,579	Aug. 7	126	37	24	522
Small, George A., Jeffersonville, Ind. Tool-handle	273,621	Mar. 6	467	131	23	917
Small, George A., Jeffersonville, assignor to J. Bettis, New Albany, Ind. Car-brake	289,314	Nov. 27	1889	526	25	865
Small, Henry, Hartford, Conn. Fire-escape	287,880	Nov. 6	112	33	25	527
Small, Johnston, Bridgewater, and J. H. Caler, Fallston, Pa. Lard or butter scoop	282,677	Aug. 7	241	70	24	541
Small, Perry, Guaymas, Mexico. Reservoir attachment for ammonia ice-machines	290,490	Dec. 18	1410	390	25	1150
Small, William. (See Armstrong, Robert C., assignor.)						
Small, William H., St. Louis, Mo. Device for closing bricks in the walls of wells or cisterns	290,277	Dec. 18	1123	316	25	1100
Smalley, William. (See Mason, Smalley, and Schofield.)						
Smallridge, Commodore P., Sr., Catlettsburg, Ky. Tawing hides	281,411	July 17	1340	.....	24	249
Smallwood, George T., Jr., Washington, D. C., assignor of one-half to J. H. McLean, St. Louis, Mo. Automatic car-brake	284,766	Sept. 11	751	208, 209	24	1037
Smalstig, William C., Springfield, Mo. Riding-saddle	272,341	Feb. 13	934	259	23	614
Smalstig, William C., and W. Massey, Springfield, Mo. Roofing	280,681	July 3	410	114	24	73
Smart, Albert J., Greenfield, Mass., assignor to Wiley & Russell Manufacturing Company, of Massachusetts. Tap-wrench	277,430	May 8	1133	305	23	1827
Smart, Albert J., Greenfield, Mass., assignor to Wiley & Russell Manufacturing Company, of Massachusetts. Screw-cutting machine	288,188	Nov. 6	486	135, 136	25	592
Smart, George, assignor to himself and D. B. Taylor, St. Louis, Mo. Ventilator	280,526	July 3	230	61	24	41
Smart, James S., Salem, Mass., assignor, by mesne assignments, to American Filter Company, Portland, Me. Water-filter	270,255	Jan. 9	508	149	23	109
Smead, Ephraim A., Tioga, Pa. Measuring-tank	279,030	June 5	511	139	23	2210
Smead, Isaac D., Toledo, Ohio. Stove	273,402	Mar. 6	210	57	23	869
Smead, Isaac D., Toledo, Ohio. Combined draft-retarder and flue-scraper	289,865	Dec. 11	617	172	25	1001
Smead, John, Toledo, Ohio. Machine for cutting tobacco	289,864	Dec. 11	616	172	25	1001
Smelser, James M., and E. L. Kennedy, Rushville, Ind. Rotary steam-engine	286,856	Oct. 16	1355	371	25	960
Smeltz, Henry A., Dunedin, Fla. Insecticide	274,523	Mar. 27	1672	.....	23	1144
Smiley, Bert, Kalamazoo, Mich. Easel	285,438	Sept. 25	1569	442	24	1195
Smiley, Frederick, San Francisco, Cal. Cravat-supporter	279,031	June 5	512	140	23	2210
Smiley, James H., Caroline, N. Y. Fire-escape with an alarm attachment	280,527	July 3	231	61	24	41
Smiley, Thomas J. L., and C. H. Stombs, San Francisco, Cal. Automatic lamp-extinguisher and wick-trimmer	290,607	Dec. 18	1568	431	25	1177
Smillie, Robert, Springfield, Ill. Combined easel, blackboard, and writing-desk	284,251	Sept. 4	121	33	24	995
Smith, Abbott P., *et al.* (See Hayes, William, Jr., assignor.)						
Smith, Abraham B., Petersburg, Pa., assignor to M. R. Shankland and C. Walter, Washington, D. C. Animal-trap	273,321	Mar. 6	101	30	23	851
Smith, Adolph T., New York, N. Y. Pneumatic door-opener	281,148	July 10	997	278, 279	24	183
Smith, Adolph T., assignor of one-half to A. Pramann, New York, N. Y. Electrical door-opener	273,622	Mar. 6	489	131, 132	23	918
Smith, Albert, Zurich, Switzerland. Band-saw mill	283,157	Aug. 14	813	227	24	650
Smith, Albert D. (See Iske, Anthony, assignor.)						
Smith, Alfred B., Chicago, Ill., assignor to H. W. Rood and A. Weber, Detroit, Mich. Crank-pin oiler	284,767	Sept. 11	755	210	24	1038
Smith, Alfred E., Bronxville, N. Y., assignor to A. E. Smith and Warner Axle Company, of Delaware. Vehicle-axle	281,310	July 17	1212	335	24	228
Smith, Alfred W., Boston, Mass. Car-starter	271,661	Feb. 6	91	25	23	456
Smith, Algernon D., Cincinnati, Ohio. Alarm-clock	283,429	Aug. 21	1166	327, 328	24	722
Smith, Algernon D., Cincinnati, Ohio. Sign	284,339	Sept. 4	219	62	24	941
Smith, Allan A. (See Smith, H. Adalbert and A. A.)						
Smith, Allen C., Bethlehem, Pa. Fly-net	289,038	Nov. 27	1568	432	25	804
Smith, Allen C., Canaan, assignor of one-half to V. Powell, Troy, N. Y. Horse-tail holder	277,431	May 8	1134	305	23	1827
Smith, Alphonso B., *et al.* (See Kirkland, William P., assignor.)						
Smith, Alphonso B., assignor of one-half to S. Pattee, San Francisco, Cal. Friction gripping device	288,879	Nov. 20	1368	377	25	761
Smith, Alphonso B., assignor to S. Pattee, San Francisco, Cal. Safety-bridge for railway-cars	289,866	Dec. 11	619	172	25	1002
Smith, Apollos, *et al.* (See Brownell, Willis L., assignor.)						
Smith, Andrew A., Crested Butte, Colo. Machine for forming roads and paths upon bodies of snow	286,969	Oct. 16	1497	411, 412	25	284
Smith, Andrew V., San Francisco, Cal. Link-protector	279,831	June 19	1500	419	23	2394
Smith, Archibald. (See Green and Smith.)						
Smith, Arthur, *et al.* (See Lattimer, Francis, assignor.)						
Smith, Benjamin, Clayton, Ill. Gate	279,832	June 19	1500	419	23	2394
Smith, Benjamin F., *et al.* (See Kempster, Daniel E., assignor.)						
Smith, Benjamin F., Alabaster, Mich. Automatic car-brake	274,043	Mar. 13	1014	278	23	1016
Smith, Budd, San Francisco, Cal. Rotary harrow and clod-breaker	287,479	Oct. 30	2149	584, 585	25	418

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Smith, Byron C. (See Thomas, Joseph M., assignor.)						
Smith, Calvin T., Albion, Mich. Bag-holder	275,086	Apr. 3	273	75	23	1273
Smith, Ceylon, *et al.* (See Hill, Thomas, assignor.)						
Smith, Ceylon, *et al.* (See Little, James R., assignor.)						
Smith, Charles, and J. Hutchinson, Chicago, Ill. Grate-bar	286,083	Oct. 2	374	103	25	68
Smith, Charles, Belleville, N. J., assignor to himself and Eastwood Wire Manufacturing Company. Let-off mechanism for looms for weaving wire	277,623	May 15	1372	369	23	1873
Smith, Charles A., Providence, R. I. Metal ruler	287,480	Oct. 30	2152	585	25	418
Smith, Charles A., Wedowee, Ala. Flour-bolt	289,935	Dec. 11	699	196	25	1016
Smith, Charles A., Chicago, Ill. Earth-excavator	290,362	Dec. 18	1230	346	25	1120
Smith, Charles D., Amador City, Cal. Water-wheel bucket	272,592	Feb. 20	1273	355	23	677
Smith, Charles D. F., Aurora, Ill. Tower for electric lights, &c.	287,881	Nov. 6	112	34	25	527
Smith, Charles F., West Bay City, Mich. Ash-pan for locomotives	281,936	July 24	2015	552	24	370
Smith, Charles H. (See Gollings, Ellick H., assignor.)						
Smith, Charles H., Eau Claire, Wis. Tire-setter	281,574	July 17	1539	422	24	282
Smith, Charles H., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Padlock	272,593	Feb. 20	1274	355	23	677
Smith, Charles O. (See Cate and Smith.)						
Smith, Charles S., Leicester, county of Leicester, England. Machinery or apparatus for compressing lime and other pulverulent substances into solid or cohesive form	276,487	Apr. 24	2072	575	23	1605
Smith, Charles W., Coalesburg, Mo. Car-brake	278,616	May 29	2610	711	23	2104
Smith, Charles W., Springfield, Ohio. Soil-pulverizing machine	281,149	July 10	998	279	24	183
Smith, Charlie E., Hoopeston, Ill. Hame	276,912	May 1	484	127	23	1710
Smith, Clarence H., and L. E. Hansberry, Springfield, Ill. Cartridge implement	290,127	Dec. 11	933	265	25	1059
Smith, Clement C., Lancaster, Pa. Device for oiling slides for engines	284,768	Sept. 11	756	210	24	1038
Smith Company, J. Barton. (See French, Josiah F., assignor.)						
Smith Consolidation Company. (See Smith, William H., assignor.)						
Smith Consolidation Company. (See Wagner, John H., assignor.)						
Smith, Curtis A., assignor to R. Carl, Elgin, Ill. Self-adjusting watch-key	279,196	June 12	732	201	23	2258
Smith, Daniel F., Republic, Ohio. Bag-holder	289,721	Dec. 4	441	123	25	963
Smith, Daniel S., Rockland, and A. Eppler, Jr., Boston, Mass.; said Smith assignor to said Eppler. Sole leveling or molding machine	285,314	Sept. 18	1410	399	24	1162
Smith, David E. (See Greene, Isaac T., assignor.)						
Smith, David H., Mishawaka, Ind. Fire and water proof paint	288,269	Nov. 13	601	.....	25	620
Smith, David L., assignor to himself and N. H. Vincent, Big Rapids, Mich. Rotary steam-engine	284,681	Sept. 11	642	181	24	1019
Smith, David N., and J. B. Raynor, Mazomanie, Wis. Table-leg	290,128	Dec. 11	935	265	25	1060
Smith, David R. (See Carter and Smith.)						
Smith, David R. (See McCreary and Smith.)						
Smith, David R., Troy, and J. McCreary, assignors of one-half to G. H. Billings and E. W. Carter, Cohoes, N. Y. Method of and machine for radial crimping	283,360	Aug. 14	1077	302 303	24	701
Smith, Delos A., Locke, Mich. Adjustable stove-pipe	278,617	May 29	2611	711	23	2104
Smith, Dexter, Springfield, Mass. Revolver	279,197	June 12	733	201	23	2259
Smith, Donald D., Springfield, Mass. Revolving fire-arm	289,890	Jan. 2	82	24	23	18
Smith, Dwight L., assignor of one-half to E. A. Smith, Waterbury, Conn. Sun-dial	277,799	May 15	1572	429	23	1910
Smith, Earl A. (See Smith, Dwight L., assignor.)						
Smith, Earl S., Chase, Mich. Car-coupling	277,363	May 8	1056	284	23	1814
Smith, Ebenezer. (See True and Smith.)						
Smith, Edmond C., Saugatuck, Conn. Knife for splitting and beveling leather	285,315	Sept. 18	1412	399	24	1162
Smith, Edward. (See Thomas, James S., assignor.)						
Smith, Edward A., St. Albans, Vt. Smoking-tube	281,573	July 17	1538	421	24	282
Smith, Edward H., Rutherford, Cal. Safety-hook	286,739	Oct. 16	1210	326	25	235
Smith, Edward S. (See McGovern, Bernard, assignor.)						
Smith, Edward S., Waterbury, Conn. Clasp	289,153	Nov. 27	1703	473	25	828
Smith & Egge Manufacturing Company. (See Egge, Frederick, assignor.)						
Smith & Egge Manufacturing Company. (See Smith, Friend W., assignor.)						
Smith, Eli. (See Duckworth and Smith.)						
Smith, Elijah S., Good Hope, Ill. Pump for windmills	270,256	Jan. 9	509	149	23	110
Smith, Elmer S., *et al.* (See Spaulding, Elijah F., assignor.)						
Smith, Elmer S. (See Hallock and Spaulding, assignors.)						
Smith, Elmer S. (See Spaulding and Hallock, assignors.)						
Smith, Emmet L., assignor to C. W. Higby, Jackson, Mich. Plaiting device	290,129	Dec. 11	936	265	25	1060
Smith, Erastus W., New York, N. Y. Apparatus for heating cars and extinguishing fires on railway-trains	284,682	Sept. 11	643	181 182	24	1019
Smith, Eugene, San Francisco, Cal. Saw-tooth	289,576	Dec. 4	256	72	25	932
Smith, Francis F., Sandusky, and J. W. Lockwood, Gypsum, assignors to Sandusky Plow Company, Sandusky, Ohio. Plow-sulky	272,092	Feb. 13	631	172	23	561
Smith, Francis H. (See Blumenberg, Israel R., assignor.)						
Smith, Francis P., Boston, Mass. Car-axle	290,938	Dec. 25	1995	550	25	1259
Smith, Frank A., Macomb, Ill. Electric underground cable	280,869	July 10	659	186	24	123
Smith, Frank A., Macomb, Ill. Endless chain carrier for brick and tile machines	289,039	Nov. 27	1569	433	25	804
Smith, Frank B. (See Hogeboom and Smith.)						
Smith, Franklin A., Jr. (See Thayer and Smith.)						
Smith, Franklin A., Jr., Providence, R. I. Metallic fastening	269,891	Jan. 2	83	25	23	18
Smith, Franklin A., Jr., Providence, R. I. Button-fastener	272,913	Feb. 27	1699	475	23	759
Smith, Franklin A., Jr., Providence, R. I. Button-fastener	276,638	May 1	116	31	23	1647
Smith, Franklin A., Jr., Providence, R. I. Button-fastener	277,169	May 8	837	221	23	1775
Smith, Franklin A., Jr., Providence, R. I. Button-setting instrument	280,408	July 3	84	23	24	18
Smith, Franklin A., Jr., Providence, R. I. Button-fastening	284,912	Sept. 11	925	260	24	1069
Smith, Franklin A., Jr., Providence, R. I. Button-setting instrument	284,913	Sept. 11	925	260	24	1069
Smith, Franklin A., Jr., Providence, R. I. Attaching buttons	286,740	Oct. 16	1211	326	25	235
Smith, Franklin A., Jr., Providence, R. I. Machine for attaching buttons	286,741	Oct. 16	1211	326 327	25	235
Smith, Franklin R. (See Cook and Smith.)						
Smith, Fred D., and W. L. Casaday, New Carlisle, Ind.; said Smith assignor to said Casaday. Rowing apparatus	276,294	Apr. 24	1823	507	23	1562
Smith, Frederick C., and J. W. Weitzell, Atlanta, Ga. Vehicle-spring	283,525	Aug. 21	1276	357	24	742
Smith, Friend W., Bridgeport, assignor to Smith & Egge Manufacturing Company, Fairfield, Conn. Napkin-ring	275,723	Apr. 10	1114	305	23	1424
Smith, Gary B., Denver, Colo. Sash-weight	276,913	May 1	484	127	23	1711
Smith, Gary B., assignor to R. E. Perry, Denver, Colo. Sash-balance	289,458	Dec. 4	99	28, 29	25	904
Smith, Gary B., assignor to R. E. Perry, Denver, Colo. Spokeshave	289,459	Dec. 4	100	29	25	904
Smith, George A., Bristol, R. I. Automatic water sprinkler or pipe	285,697	Sept. 25	1874	534	24	1252
Smith, George A., and M. W. Voigtman, St. Louis, Mo.; said Voigtman assignor to said Smith. Lay-boy	281,150	July 10	999	279	24	183

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Smith, George B. and G. H., Latrobe, Ohio. Churn-motor	282,389	July 31	2602	715	24	474
Smith, George C. (See Fitz Gerald and Smith.)						
Smith, George E., Middleport, N. Y. Hoop-bending machine	289,936	Dec. 11	700	197	25	1016
Smith, George H., Jr. (See Oldroyd and Smith.)						
Smith, George H. (See Smith, George B. and G. H.)						
Smith, George H., *et al.* (See Crofoot, George W., assignor.)						
Smith, George H., New York, N. Y. Method of and apparatus for making and raising salt-brine from deep veins	273,623	Mar. 6	491	132	23	918
Smith, George H., New York, N. Y. Salt-evaporating pan	287,183	Oct. 23	1777	487, 488	25	342
Smith, George W., *et al.* (See Kempster, Daniel E., assignor.)						
Smith, George W., Boston, Mass. Hand drilling-machine	279,032	June 5	513	140	23	2211
Smith, Gerritt, Astoria, and T. F. Taylor, Brooklyn, N. Y. Telegraphy	284,498	Sept. 4	414	118	24	974
Smith, Grant & Co. (See Newell and Ladd, assignors.)						
Smith, H. Adalbert and A. A., Omaha, Nebr. Box	290,130	Dec. 11	937	265	25	1060
Smith, H. G., *et al.* (See Bugbey, Benjamin N., assignor.)						
Smith, Hamilton E., New York, N. Y. Washing-machine	275,724	Apr. 10	1115	305	23	1494
Smith, Hampton S., Jr. (See Graner, John, assignor.)						
Smith, Harmon L., Watkins, N. Y. Cultivator	277,949	May 22	1750	477	23	1946
Smith, Henry, New Haven, Conn. Top-prop nut	272,594	Feb. 20	1275	355	23	678
Smith, Henry, Newark, N. J. Pearl button	287,969	Nov. 6	228	65	25	547
Smith, Henry, Jr., Baltimore, Md. Sash-cord fastener	286,857	Oct. 16	1356	372	25	261
Smith, Henry C., Richmond, county of Surrey, England. Machinery and apparatus for scutching or separating, washing, drying, and bleaching the fibers of fiber-bearing leaves and plants	282,788	Aug. 7	375	106	24	566
Smith, Henry D., Rockland, Mass. Machine for winding sewing-machine shuttle-bobbins	282,560	Aug. 7	196	38	24	522
Smith, Henry J., Pittsburg, Pa. Cruet-caster	284,499	Sept. 4	416	118	24	974
Smith, Henry V., Plantsville, Conn. Bit-stock	274,041	Mar. 13	1013	278	23	1016
Smith, Henry V., assignor of one-half to G. E. Cruttenden, Plantsville, Conn. Bit-stock	274,040	Mar. 13	1012	277	23	1016
Smith, Henry V., assignor of one-half to G. E. Crutenden, Plantsville, Conn. Convertible screw-driver and borer	274,042	Mar. 13	1014	278	23	1016
Smith, Herbert N. (See Crocker, James A., assignor.)						
Smith, Holland, San Francisco, Cal. Basin and water-closet valve	289,937	Dec. 11	701	197	25	1016
Smith, Howard M., St. Louis, Mo. Spark-arrester	285,849	Oct. 2	86	26	25	18
Smith, Howard M., St. Louis, Mo. Spark-arrester	288,195	Nov. 6	495	138	25	594
Smith, Hugh, Roodhouse, assignor of one-half to G. E. Hill, Whitehall, Ill. Motor for churns and washing-machines	284,500	Sept. 4	417	118	24	974
Smith, Ira T., Mount Carmel, Conn. Machine for swaging needle-blanks	280,682	July 3	410	115	24	73
Smith, Isaac M. (See Beery, Samuel M., assignor.)						
Smith, Isaac N., Ashley, Ill. Grinding-machine	281,151	July 10	1000	280	24	183
Smith, Israel E., York, assignor to S. A. Shroff, Columbia, Pa. Gate	287,184	Oct. 23	1779	488	25	342
Smith, Israel S., assignor of one-half to E. B. Hay, Washington, D. C. Bill-file	277,170	May 8	838	221	23	1775
Smith, J. C., *et al.* (See Brust, Albert G., assignor.)						
Smith, Jacob A., White Hall, assignor of one-third to J. C. Phillips, Baltimore, Md. Machine for cutting green corn from the cob	279,833	June 19	1501	420	23	2394
Smith, James, and D. E. Blake, St. Louis, Mo. Refrigerator	286,084	Oct. 2	375	104	25	68
Smith, James A., *et al.* (See Mitchell, James C., assignor.)						
Smith, James A., assignor to E. N. Thayer, Holbrook, Mass. Machine for rolling leather-strings	287,970	Nov. 6	228	65	25	547
Smith, James C., The Dalles, Oreg. Drilling-machine	279,834	June 19	1503	420	23	2394
Smith, James C., assignor of one-third to G. B. Ford, Jamestown, N. Y. Detachable table-leg	271,143	Jan. 23	1619	466	23	326
Smith, James F. (See Brown and Smith.)						
Smith, James F., Terrell, Tex. Vehicle	280,870	July 10	660	186	24	123
Smith, James G., *et al.* (See Coy, George W., assignor.)						
Smith, James S., Middletown, Conn. Button	272,491	Feb. 20	1146	322	23	655
Smith, James T., New York, N. Y. Umbrella stick and cane	282,231	July 31	2404	661	24	440
Smith, James T., New York, N. Y. Umbrella and parasol handle	289,722	Dec. 4	442	124	25	964
Smith, James W., Jersey City, N. J. Overshoe for horses	288,880	Nov. 20	1369	377	25	762
Smith, James W., Green, assignor of one-half to J. Brown, Louisville, Kans. Corn check-rower	270,497	Jan. 9	811	236	23	168
Smith, Jared W., Hartford, Conn. Band sawing machine	276,197	Apr. 24	1705	471	23	1542
Smith, Jason, Rockland, Mass. Machine for trimming, channeling, and grooving boot and shoe soles	270,498	Jan. 9	812	237	23	169
Smith, Jesse M., Detroit, Mich. Crank-movement in steam-engines and other machinery	273,624	Mar. 6	492	132	23	918
Smith, Jesse M., Detroit, Mich. Slide-valve for steam-engines	275,725	Apr. 10	1116	305	23	1425
Smith, Jesse M., Detroit, Mich. Governor for steam-engines	282,789	Aug. 7	376	106	24	566
Smith, John, Caldwell Prairie, Wis. Crank-plate for bolster-springs	287,335	Oct. 23	1969	537	25	376
Smith, John, Stillwater, Minn. Horse-power	289,154	Nov. 27	1704	473	25	828
Smith, John, and J. P. Rhodes, Rockville Centre, N. Y. Dumping-car	275,532	Apr. 10	873	236	23	1383
Smith, John, and J. P. Rhodes, Rockville Centre, N. Y. Attachment for inside doors	275,726	Apr. 10	1117	305	23	1425
Smith, John, and J. P. Rhodes, Rockville Centre, N. Y. Dumping-scow	280,871	July 10	661	186	24	124
Smith, John, Ontonagon, Mich., assignor of one-half to J. Little, Horicon, Wis. Grain-drill	279,033	June 5	514	140	23	2211
Smith, John A., North East, Pa. Adjustable chair, desk, &c	283,430	Aug. 21	1167	328	24	722
Smith, John A., Frankford, Pa. Vegetable-cutter	290,363	Dec. 18	1231	346, 347	25	1120
Smith, John B., Sunapee, assignor to C. N. Freeman and D. W. O'Neil, Claremont, N. H. Machine for making brackets for telegraph-insulators	278,618	May 29	2611	712	23	2105
Smith, John B., Sunapee, assignor to C. N. Freeman and D. W. O'Neil, Claremont, N. H. Machine for making telegraph-insulator pins	278,619	May 29	2613	712, 713	23	2105
Smith, John E., New York, N. Y. Fire-proof garment	279,669	June 19	1317	366	23	2362
Smith, John E., Bangor, Me. Oscillating steam-engine	290,713	Dec. 25	1712	472	25	1210
Smith, John G. (See Scanlan, Charles A., assignor.)						
Smith, John J. (See Rees and Smith.)						
Smith, John J. C., College Point, N. Y. Machine for covering wire for electrical purposes	276,724	May 1	250	63, 64	23	1667
Smith, John J. C., College Point, N. Y. Covering wire for electrical purposes	276,725	May 1	252	65	23	1668
Smith, John J. C., College Point, N. Y. Insulating wire for electric purposes	277,519	May 15	1239	334	23	1852
Smith, John J. C., College Point, assignor to Ansonia Rubber Company, New York, N. Y. Bristle-setting apparatus	276,489	Apr. 24	2074	576	23	1606
Smith, John L., Philadelphia, Pa. Awning	286,495	Oct. 9	889	240	25	172
Smith, John O., Jamison, Ala. Apparatus for drying and seasoning lumber	270,138	Jan. 2	367	106	23	75
Smith, John O., Jamison, Ala. Lumber-drier	286,234	Oct. 9	551	151	25	111
Smith, John O., Jamison, Ala. Apparatus for drying and seasoning lumber. (Reissue)	10,393	Oct. 16	1523	419	25	288
Smith, John R., Rochester, N. Y. Middlings-purifier	271,932	Feb. 6	423	115	23	515
Smith, John S., Philadelphia, Pa. Venetian blind	279,835	June 19	1504	420	23	2395

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Smith, John T., assignor of one-half to J. B. Dawson, Uhrichsville, Ohio. Foot-warmer	284,914	Sept. 11	926	261	24	1069
Smith, Joseph, *et al.* (See Locke, Stephen F., assignor.)						
Smith, Joseph A. (See Nunns and Smith.)						
Smith, Joseph B., North Buffalo, Pa. Fire-escape	288,131	Nov. 6	419	118	25	581
Smith, Joseph D., assignor to himself and L. D. Minnick, Rockford, Ill. Corn-planter	285,768	Sept. 25	1977	560	24	1268
Smith, Joseph G., Quincy, Ill. Thermometer	282,390	July 31	2603	715	24	475
Smith, Joseph N. (See Whiting and Smith.)						
Smith, Joseph S. (See Wells, George M., assignor.)						
Smith, Joseph W. (See Schiller, John G., assignor.)						
Smith, Josephine M. (See Whiting, Eleanor, assignor.)						
Smith, Josephine M. (See Whiting and Smith, assignors.)						
Smith, Josephine V., Hornellsville, N. Y. Fluting and ironing machine	277,590	May 15	1242	334	23	1852
Smith, Joshua. (See Sample, Levi R., assignor.)						
Smith, Joshua, Chicago, Ill. Bill and letter file, &c	280,683	July 3	413	115	24	73
Smith, L. Henry, assignor of one-half to T. B. Starr, Salem, N. J. Can-filling machine	280,684	July 3	413	116 117	24	74
Smith, L. Henry, assignor of one-half to T. B. and R. T. Starr, Salem, N. J. Can-filling machine	289,155	Nov. 27	1705	473 474	25	828
Smith, L. Henry, assignor of one-half to T. B. and R. T. Starr, Salem, N. J. Can-filling machine	289,156	Nov. 27	1706	474	25	829
Smith, Lawrence F., assignor to C. A. Shaw, Boston, Mass. Toy	272,168	Feb. 13	723	199	23	577
Smith, Lewis T., Cantril, Iowa. Revolving riddle for thrashing-machines	282,790	Aug. 7	379	107	24	566
Smith, Lewis W., Sutton, Mass. Carriage-axle	283,034	Aug. 14	669	188	24	626
Smith, Lucila E., Brooklyn, assignor to G. P. Farmer, New York, N. Y., and J. Jenkins, Montclair, N. J. Safety-pin	281,152	July 10	1001	280	24	183
Smith, Luke A., Ludington, Mich. Door-hanger	286,085	Oct. 2	376	104	25	69
Smith, Luther L., Ansonia, Conn. Apparatus for coating wire	276,914	May 1	485	128	23	1711
Smith, Lyman, Kansas City, Mo. Pneumatic and automatic grain-transfer apparatus	279,034	June 5	517	141	23	2211
Smith, Lyman, Kansas City, Mo. Mouth-piece for grain-transferring apparatus	289,315	Nov. 27	1890	526	25	865
Smith, Lyman, Kansas City, Mo. Apparatus for transferring grain, &c	289,316	Nov. 27	1891	527	25	865
Smith, Lyman, Kansas City, Mo. Eccentric-shaped filter	290,364	Dec. 18	1232	347	25	1120
Smith, Lyman C. (See Brown, Alexander T., assignor.)						
Smith, Malcolm, Gloucester, Mass. Shoe	275,430	Apr. 10	747	198	23	1362
Smith Manufacturing Company. (See Smith, Seth H., assignor.)						
Smith, Margret, Little Rock, Ark. Muff	282,391	July 31	2605	715	24	475
Smith, Margret, Little Rock, Ark. Hat and bonnet supporter	290,365	Dec. 18	1233	347	25	1120
Smith, Martin V., McKeesport, Pa. Continuous rolling-mill	274,524	Mar. 27	1672	464	23	1144
Smith, Martin V., McKeesport, Pa. Continuous rolling-mill	274,525	Mar. 27	1674	464	23	1144
Smith, Martin V., Tyrone, Pa. Furnace for melting glass, &c	280,872	July 10	662	186 187	24	124
Smith, Martin V., Tyrone, Pa. Glass-furnace	285,316	Sept. 18	1412	399	24	1163
Smith, Mary E., Southbury, Conn. Lamp-supporting bracket for sewing-machines	274,984	Apr. 3	129	36	23	1248
Smith, Mary E., Somerville, Mass. Mattress	278,055	May 22	1880	514	23	1969
Smith Middlings Purifier Company, George T. (See Holt, Noah W., assignor.)						
Smith Middlings Purifier Company, George T. (See Mount and Bassett, assignors.)						
Smith, Milo P., Norwalk, Ohio. Sewing-machine	280,409	July 3	85	23	24	18
Smith, Milo R. (See Neff, Enders, and Fieser, assignors.)						
Smith Moquette Loom Company. (See Skinner, Charles E., assignor.)						
Smith Moquette Loom Company. (See Skinner, Halcyon, assignor.)						
Smith Moquette Loom Company. (See Skinner and Tymeson, assignors.)						
Smith, Myers & Schnier. (See Smith and Myers, assignors.)						
Smith, Norton, Roscommon, Mich. Device for securing binding-chains	276,395	Apr. 24	1825	508	23	1563
Smith, Obediah J., and R. J. Johnson, Meadville, Mo. Steam-washer	285,934	Oct. 2	202	57	25	39
Smith, Orren W., Bangor, Me. Tool for watch makers and repairers	274,837	Mar. 27	2037	567	23	1209
Smith, Oscar F., Norristown, Pa. Clothes-drier	281,734	July 24	1759	478	24	324
Smith, Oscar L., assignor of one-half to J. A. Bell, Buffalo, N. Y. Sewing-machine shuttle	276,489	Apr. 24	2076	576	23	1606
Smith, Ozias A., Atlanta, Ga. Basement or cellar floor	274,985	Apr. 3	130	36	23	1248
Smith, Paul, *et al.* (See Ollis, John W., assignor.)						
Smith, Phillip, Prairie City, Iowa. Wagon end-gate	286,647	Oct. 16	1093	294	25	214
Smith, Peter, Cato, Kans. Fire-escape	283,158	Aug. 14	815	227	24	651
Smith, R. Hale, Springfield, Mass. Seal-press	286,496	Oct. 9	890	240	25	172
Smith, R. Hale, Springfield, Mass. Self-inking printing-stamp	288,674	Nov. 20	1117	307	25	716
Smith, Ransom J., Georgia, Vt. Chimney-cap	282,392	July 31	2605	715	24	475
Smith, Richard, Sherbrooke, Quebec, Canada. Reciprocating propeller and operating mechanism	279,967	June 26	1694	476	23	2434
Smith, Richard, Sherbrooke, Quebec, Canada. Tension-equalizer for fishing-rods	279,968	June 26	1696	476	23	2434
Smith, Richard, Sherbrooke, Quebec, Canada. Vibrating propeller	289,867	Dec. 11	620	172	25	1002
Smith, Richard, Boston, assignor of one-half to G. W. Russell, Lawrence, Mass. Machine for testing paper, &c	274,146	Mar. 20	1158	319 320	23	1048
Smith, Richard S. (See McNeil, Murdock, assignor.)						
Smith, Robert M., Annada, assignor of one-half to H. S. Carroll, Clarksville, Mo. Car-wheel	272,342	Feb. 13	935	260	23	614
Smith, Robert P., *et al.* (See Leake, Lewis C., assignor.)						
Smith, Robert R. (See Allen, John, assignor.)						
Smith, Roderick H., Dunkirk, N. Y. Liquid paint	286,858	Oct. 16	1356	.....	25	261
Smith, Roland H. (See Bannister, Henry D., assignor.)						
Smith, Roland H., Pittsburg, Pa. Apparatus for the manufacture of gas	288,741	Nov. 20	1206	330	25	731
Smith, Roswell T., Nashua, N. H. Paper-perforating machine. (Reissue)	10,311	Apr. 10	1213	332 333	23	1441
Smith, Roswell T., Nashua, N. H. Machine for perforating music-paper for automatic musical instruments	287,062	Oct. 23	1623	447	25	313
Smith, Samuel C., Lowell, Mass. Screw-cutting machine	284,501	Sept. 4	418	118	24	975
Smith, Samuel P. (See Sanford and Smith.)						
Smith, Samuel P., New York, N. Y. Machine for obtaining fibers, &c	276,915	May 1	486	128	23	1711
Smith, Samuel P., New York, N. Y. Machine for obtaining and treating fibrous and other substances	280,968	July 10	781	216	24	143
Smith, Samuel R. (See Schnier and Smith.)						
Smith, Samuel R., and E. Myers, assignors to Smith, Myers & Schnier, Cincinnati, Ohio. Circular-saw guide	270,139	Jan. 2	368	107	23	75
Smith, Samuel R., and E. Myers, assignors to Smith, Myers & Schnier, Cincinnati, Ohio. Saw-mill feed mechanism	270,140	Jan. 2	369	107	23	75
Smith, Samuel R., and E. Myers, assignors to Smith, Myers & Schnier, Cincinnati, Ohio. Head-block	271,747	Feb. 6	194	54	23	474
Smith, Sarah L., administratrix. (See Smith, William.)						
Smith, Seth H., assignor to Smith Manufacturing Company, Delta, Ohio. Wooden plate	273,773	Mar. 13	697	187	23	901

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Smith, Seth H., assignor to Smith Manufacturing Company, Delta, Ohio. Machine for cutting wooden plates	276,198	Apr. 24	1706	471, 472	23	1543
Smith, Seth H., assignor to Smith Manufacturing Company, Delta, Ohio. Cutting articles from wood	278,828	June 5	207	61	23	2158
Smith, Sidney. (See Peterman and Smith.)						
Smith, Sidney, Cambridge, Mass. Steam-generator	289,317	Nov. 27	1892	527	25	865
Smith, Sidney B., Kirksville, Mo. Fence	269,892	Jan. 2	83	25	23	18
Smith, Sidney M., San Francisco, Cal. Honey-comb-packing bottle or jar	290,131	Dec. 11	938	266	25	1060
Smith, Stephen N., Providence, R. I. Machine for making lacing-hooks	272,787	Feb. 20	1514	426, 427	23	730
Smith, Thaddeus S., St. Louis, Mo. Brick-kiln	290,939	Dec. 25	1996	550	25	1259
Smith, Thomas, Alliance, Ohio. Plastic refractory material for repairing ingot-molds	284,502	Sept. 4	421	.....	24	975
Smith, Thomas B., assignor of one-third to B. Weber, Baltimore, Md. Fire-escape	289,318	Nov. 27	1895	527	25	866
Smith, Thomas H., Bloomington, Ill. Mail-bag fastening	285,518	Sept. 25	1660	467	24	1212
Smith, Thomas L., and W. S. Doig, Brooklyn, N. Y. Feeder for nailing-machines	276,639	May 1	117	31, 32	23	1647
Smith, Thomas L., and W. S. Doig, Brooklyn, N. Y. Box-nailing machine	276,726	May 1	255	65	23	1668
Smith, Thomas L., and W. S. Doig, Brooklyn, N. Y., assignors to Central Refining Company, (limited,) of New York. Can-seaming machine	273,774	Mar. 13	698	188	23	961
Smith, Thomas S., New Haven, Conn. Sash-fastener	286,859	Oct. 16	1357	372	25	961
Smith, Uzziel P., Chicago, Ill. Elevator	280,251	June 26	2009	565	23	2490
Smith, Victor, assignor of one-half to H. D. Tate, Bedford, Pa. Harness	271,933	Feb. 6	424	116	23	515
Smith, W. C. (See Leslie, Joseph C., assignor.)						
Smith, W. Dean, Boston, Mass. Machine for cutting soap and other materials	273,176	Feb. 27	2013	566	23	814
Smith, Walter C., Philadelphia, Pa. Telegraph-sounder	288,881	Nov. 20	1370	378	25	762
Smith, Walton D., assignor of one-half to C. Emery, Prophetstown, Ill. Package-tie	274,044	Mar. 13	1016	278	23	1016
Smith and Warner Axle Company, Alfred E. (See Smith, Alfred E., assignor.)						
Smith, Willard N. (See Vincent and Smith.)						
Smith, Willard N., and H. M. Vincent, assignors of one-third to E. H. Noble, New Bedford, Mass. Wrench	286,561	Oct. 9	976	262	25	187
Smith, William. (See Fagan, Thomas B., assignor.)						
Smith, William, Aberdeen, Scotland. Excavating and dredging apparatus	284,503	Sept. 4	422	119, 120	24	975
Smith, William, deceased, S. L. Smith, Cincinnati, Ohio, administratrix, and assignor to M. S. Miller, Chicago, Ill. Manufacture of impression-paper	273,772	Mar. 13	696	187	23	961
Smith, William, San Francisco, Cal. Ball-cock	278,189	May 22	2047	562	23	1998
Smith, William, Tomah, Wis. Stump-extractor	278,620	May 29	2616	714	23	2105
Smith, William C. R., and J. B. Morton, San Francisco, Cal. Return-crate	283,930	Aug. 28	1766	499	24	844
Smith, William E. (See Bromley, James M., assignor.)						
Smith, William F. (See Kilborn and Smith.)						
Smith, William F., Tucson, Ariz. Ter. Boiler-tube stopper	277,365	May 8	1057	284	23	1815
Smith, William H., Upper Alton, Ill. Saw-jointer	277,364	May 8	1056	284	23	1815
Smith, William H., assignor to Smith Consolidation Company, Chicago, Ill. Machine for consolidating loose and bulky material into solid blocks	275,866	Apr. 17	1306	359, 360, 361	23	1465
Smith, William H., assignor of one-half to Orr, Painter and Company, Reading, Pa. Pattern for molding stove-lids	278,370	May 29	2315	633	23	2053
Smith, William H. H., Somerville, Mass. Stove-lid and pan lifter	278,369	May 29	2315	633	23	2053
Smith, William H. H., Somerville, Mass. Kitchen utensil	285,439	Sept. 25	1570	442	24	1195
Smith, William J., Brookline, N. H. Barrel-head cutter	271,934	Feb. 6	425	116	23	515
Smith, William M., assignor to Meriden Britannia Company, Meriden, Conn. Casket ornament	270,496	Jan. 9	810	236	23	168
Smith, William O., Orwell, Ohio. Egg-crate	284,252	Sept. 4	123	33	24	925
Smith, William O., Cambridgeport, Mass. Wood-molding machine	289,319	Nov. 27	1896	528	25	866
Smith, William R., and N. H. Bigger, Bentonville, Ark. Pump	272,343	Feb. 13	936	260	23	614
Smith, William T. (See Heavner, Andrew J., assignor.)						
Smith, William T., *et al.* (See Colvin, Orson, assignor.)						
Smith, Willoughby, Wharf Road, City Road, county of Middlesex, England. Insulating electrical conductors and a new compound suitable to be used for this and other purposes	276,916	May 1	488	.....	23	1711
Smith, Willoughby, Wharf Road, City Road, county of Middlesex, England. Insulated electrical conductor	277,366	May 8	1058	285	23	1815
Smith, Wilson R., assignor of one-half to C. A. Hodge, Beloit, Wis. Harvester	276,490	Apr. 24	2077	576, 577	23	1606
Smith, Wilson R., assignor of one-half to Monitor Works, Beloit, Wis. Elevator	283,431	Aug. 21	1169	328	24	723
Smith Woolen Machinery Company, James. (See Huckins, Irving W., assignor.)						
Smith Woolen Machinery Company, James. (See Moulton, Hamilton L., assignor.)						
Smith Woolen Machinery Company, James. (See Proctor, Josiah K., assignor.)						
Smith, Wright D., Detroit, Mich. Rotary fan-blower	272,595	Feb. 20	1275	356	23	678
Smith, Wright D., assignor of one-half to M. C. Huyatt, Detroit, Mich. Exhaust-fan	275,087	Apr. 3	274	75	23	1273
Smith, Zephaniah C., Brooklyn, N. Y. Ironing-machine	279,514	June 12	1132	314	23	2392
Smither, Joseph C., and J. D. Carlisle, Nicholasville, Ky. Draft-chain loop for back-bands	289,157	Nov. 27	1707	475	25	899
Smithers, Joseph P., Brooklyn, N. Y. Telegraphic relay	276,087	Apr. 17	1564	431	23	1510
Smithers, Joseph P., Brooklyn, N. Y. Telegraphic repeater	279,670	June 19	1317	366	23	2362
Smithmeyer, John L., Washington, D. C. Building block or brick	279,836	June 19	1504	421	23	2395
Smithson, Joseph S., Chicago, Ill. Branding device	278,621	May 29	2616	714	23	2106
Smitten, Thomas W. F., New York, N. Y. Pen and pencil holder	274,836	Mar. 27	2036	567	23	1209
Smitten, Thomas W. F., Brooklyn, N. Y. Button or stud	276,917	May 1	488	128	23	1711
Smock, Louis G., and C. H. Dill, Danville, Ind. Spark-arrester	289,158	Nov. 27	1708	475	25	899
Smoke, David L. (See Hull and Smoke.)						
Smoot, Luther R. (See Pugh, William G., assignor.)						
Smothers, Frank E., Gloucester, Mass. Lantern	281,153	July 10	1001	280	24	184
Smouse, Charles W. (See Smouse, David, C. W., and D. H.)						
Smouse, David, C. W., and D. H., Mount Pleasant, Iowa. Sugar-evaporator	272,093	Feb. 13	633	172	23	561
Smouse, David H. (See Smouse, David, C. W., and D. H.)						
Smullen, Daniel, assignor to Excelsior Manufacturing Company, St. Louis, Mo. Cylinder-cock	284,504	Sept. 4	494	120	24	976
Smyth, David M. (See Carlton and Smyth.)						
Smyth, David M., assignor to Smyth Manufacturing Company, Hartford, Conn. Book-sewing machine	274,986	Apr. 3	130	36	23	1248
Smyth, David M., Hartford, Conn., assignor to Smyth Manufacturing Company, of Connecticut. Machine for cutting notches in the backs of books	276,296	Apr. 24	1825	508	23	1563
Smyth, David M., assignor to himself and G. W. Root, Hartford, Conn. Machine for preparing papers for physicians' powders	276,297	Apr. 24	1827	508, 509	23	1563
Smyth Manufacturing Company. (See Carlton and Smyth, assignors.)						
Smyth Manufacturing Company. (See Smyth, David M., assignor.)						
Smyth, Milton B., Holton, Kans. Tire-tightener	279,035	June 5	519	141	23	2211

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
amuel, Pittston, Pa. Magazine-stove	286,235	Oct. 9	554	152	25	112
Thomas A., Chicago, Ill. Insulating telegraph-wires	278,753	June 5	97	28	23	2140
ames W., assignor of one-half to M. W. Anderson, Jasper, Tenn. Lifting-jack for railway-tracks	276,088	Apr. 17	1569	432	23	1511
ohn T., Barterville, Ky. Quilting-frame clamp	290,940	Dec. 25	1997	551	25	1259
, Fielding, Elkader, Iowa. Snow-plow	280,528	July 3	232	61	24	42
, William E., Trenton, N. J. Metal mold for casting vises	280,769	July 3	533	149	24	94
dolphus G., New Haven, Conn. Canopy-holder for children's carriages	281,311	July 17	1213	336	24	228
ank H., Washington, D. C. Unison mechanism for electrical indicators	282,791	Aug. 7	380	107 108	24	567
anufacturing Company. (See Harris, Darius W., assignor.)						
anufacturing Company. (See Holley, George G., assignor.)						
ames A. (See Shanck, Henry K., assignor.)						
asper, assignor of one-half to J. Teter, Pottsville, Pa. Cock for hydrants	290,132	Dec. 11	939	266	25	1060
uther C., assignor of one-tenth to J. L. Baxter, Olean, N. Y. Facilitating the passage of oil through pipes and making illuminating-gas	290,491	Dec. 18	1411	390	25	1151
, David R. (See Adams and Snelling.)						
James B., Pickard's Mills, Ind. Churn-power	284,769	Sept. 11	757	210	24	1038
John J. (See O'Bannon and Snider.)						
John J., and W. H. O'Bannon, Cleburne, Tex. Stalk-cutter	288,374	Nov. 13	743	202	25	644
Nicholas H., Pittsburg, Pa. Holder for grindstone-truing tools	273,625	Mar. 6	496	133	23	919
Sons, Louis. (See Ryan, J. Tyler, assignor.)						
Corydon S., and W. F. Palmer, Carmi, Ill. Button	286,860	Oct. 16	1358	372	25	261
ss, James H., Mifflinburg, Pa. Fastening for quarter-curtains	272,094	Feb. 13	635	172	23	561
ss, John M., Minneapolis, Minn. Hay-loader	277,800	May 15	1574	430	23	1910
Albert, Ensival, Belgium. Method of removing vegetable matter from wool and atus therefor	270,992	Jan. 23	1446	417	23	298
eorge W. (See Gibbs and Snook.)						
Virgil H., Aurora, Ill. Carpet-sweeper	271,284	Jan. 30	1801	522	23	365
ndrew, *et al.* (See Davidson, George, assignor.)						
zariah, assignor to Bassett & Sherman, Franklin, Mass. Braid-guide for sewing-nes	284,080	Aug. 28	1971	549	24	879
zra H. (See Stranders, Walter, assignor.)						
Henry H., Brooklyn, N. Y. Traveling-cap	271,529	Jan. 30	2120	610	23	422
ames, Columbus, Ohio. Pattern-chart for cutting out shirts	273,626	Mar. 6	495	133	23	919
exor B., Cleveland, Ohio. Combined check and stop valve	284,770	Sept. 11	758	211	24	1039
Marcus L. (See Pulson and Snow.)						
tephen. (See Beal, Ezra F., assignor.)						
tephen D. (See Leonard and Snow.)						
ictor M., Cashville, S. C. Manure-distributer	287,735	Oct. 30	2496	672 673	25	484
William W., Ramapo, N. Y. Car-wheel	276,727	May 1	257	65	23	1668
n, Henry, *et al.* (See Carrick, Thomas J., assignor.)						
n, Lizzie B. (See Snowden, Robert C., assignor.)						
n, Melissa B. (See Snowden, Robert C., assignor.)						
n, Robert C., assignor to L. B. Snowden, Elizabeth, Pa. Metal-bending machine roofers	274,398	Mar. 20	1484	408	23	1105
n, Robert C., assignor to M. B. Snowden, Elizabeth, Pa. Roofing-machine	283,291	Aug. 14	981	274	24	683
n, John, Weld, Maine. Rowlock	287,971	Nov. 6	230	65	25	547
Alviras, Dryden, (Etna P. O.,) N. Y. Creamer	282,678	Aug. 7	241	70	24	541
Charles I., Philadelphia, Pa. Toy target	270,141	Jan. 2	370	108	23	75
Christian, Elizabethville, Pa. Vehicle-wheel	271,935	Feb. 6	426	116	23	515
Daniel. (See Ivins and Snyder.)						
Daniel W., Selma, Ala. Mail-bag fastening	286,339	Oct. 9	712	190	25	139
David, assignor to himself and A. L. Fisher, Grafton, Mass. Pot and kettle	279,671	June 19	1323	367	23	2362
David, assignor of one-third to A. L. Fisher, Grafton, Mass. Pot and kettle	274,147	Mar. 20	1161	320	23	1013
Elisha S., Snyder's Mills, W. Va. Cutting apparatus for harvesters	283,292	Aug. 14	982	274	24	683
Fredrick P. (See McGhee, William T., assignor.)						
Harrison. (See Strohm, Samuel D., assignor.)						
James W., Emporium, Pa. Car-coupling	288,270	Nov. 13	602	164	25	620
John H., Fruitport, Mich. Horse-collar	274,229	Mar. 20	1268	350	23	1068
Joseph. (See Granger, Sumner C., assignor.)						
Joseph, West Pittston, and D. Morse, Hugheston, Pa. Coal-cleaner	281,735	July 24	1760	478 479	24	324
Joseph W., Philadelphia, Pa. Medicinal inhaler	290,608	Dec. 18	1569	431	25	1177
Michael L. (See Bittenbender and Snyder.)						
Simon P., S. Stough, and T. D. Ulrick, Walton, Ind. Cultivator	290,366	Dec. 18	1234	347	25	1121
William H. (See Frick and Snyder.)						
William H. (See Rider, Snyder, and Frick.)						
William H., San Francisco, Cal. Last	283,826	Aug. 28	1643	463	24	822
William H., Waynesborough, Pa. Saw-mill set-works	284,081	Aug. 28	1972	549	24	879
William H., and A. O. Frick, Waynesborough, Pa. Traction-engine	275,279	Apr. 3	505	139	23	1312
i, Charles O. (See Flammger and Sobinski.)						
i, Charles O., assignor of one-half to A. Meyer, St. Louis, Mo. Link-bending ma-	287,736	Oct. 30	2497	673 674	25	484
Anonyme des Anciens Etablissements Cail. (See Ferron, Alexandre, assignor.)						
Anonyme des Appareils Automatiques pour Accrocher et Décrocher les Wagons de ins de Fer. (See Gilbert, Frederic, assignor.)						
Anonyme des Corderies Parisiennes. (See Motiron, Pierre, assignor.)						
Anonyme des Produits Chimiques du Sud-Ouest. (See Menard and Hennebutte, iors.)						
Anonyme Lorraine Industrielle. (See Knab, Clovis, assignor.)						
Industrielle des Tresses & Lacets de Saint Chamond. (See Rafer, Eugène and E., iors.)						
Secondo Roos. (See Ostrogovich, Francesco, assignor.)						
rg, Otto. (See Persson and Söderberg.)						
röm, Albert, Stockholm, Sweden. Ratchet-drill	288,882	Nov. 20	1371	378	25	762
röm, Albert, Stockholm, Sweden. Self-oiling drill-chuck	288,957	Nov. 20	1462	404	25	779
r, Theodor, New York, N. Y. Car-starter	274,399	Mar. 20	1485	408	23	1105
dge Implement Company. (See Carr, Robert S., assignor.)						
dge Implement Company. (See Carr and See, assignors.)						
Iron Last Company. (See Wells, George M., assignor.)						
ohn H., assignor to himself and B. McGrann, New York, N. Y. Compression basin-	273,177	Feb. 27	2015	566	23	815

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Pages.
Solliday, Edward R. (See Fisher and Solliday.)						
Solmans, Alden, *et al.* (See Ryder, Martin H., assignor.)						
Solmans, Alden, South Norwalk, Conn. Compound for stiffening hats	287,972	Nov. 6	231	.....	25	548
Solomon, Thomas D., Corsicana, Tex. Kitchen-scale	280,252	June 26	2011	565	23	2491
Solomon, Edward, Sumter, S. C. Fire-escape	281,154	July 10	1002	281	24	184
Somers Brothers. (See Atkinson, William H., assignor.)						
Somers, George E., assignor to Bridgeport Brass Company, Bridgeport, Conn. Metallic tip and coupling for electrical conductors	284,915	Sept. 11	927	261	24	1069
Somers, George E., and S. G. Stoddard, assignors to Bridgeport Brass Company, Bridgeport, Conn. Shade-holder and method of making the same	285,172	Sept. 18	1255	352	24	1133
Somers, William R., Bridgeport, Conn. Driving attachment for sewing-machines	273,627	Mar. 6	496	133	23	919
Somers, William R., Bridgeport, Conn. Power-transmitter	282,679	Aug. 7	242	70, 71	24	541
Somerset Co-operative Foundry Company. (See Fuller, Cornelius, assignor.)						
Somerville, William, St. Louis, Mo. Reflector-bracket	270,703	Jan. 16	1090	312	23	228
Somerville, William, St. Louis, Mo. Ornamenting glass lamp fonts or bowls	286,236	Oct. 9	555	152	25	112
Somerville, William, St. Louis, Mo. Lamp-shade holder	286,237	Oct. 9	555	152	25	112
Somes, Daniel E., Washington, D. C. Refrigerator-car	278,285	May 22	2174	599, 600	23	2019
Somes, Frank S., and S. H. Kimball, Boston, Mass., assignors, by mesne assignments, to said Kimball. Lubricator	282,127	July 31	2277	625	24	418
Sommer, Charles. (See Kully, Louis, assignor.)						
Sommer, John, Jr., Newark, N. J. Faucet	275,727	Apr. 10	1118	306	23	1425
Sonier, Frank, assignor of one-half to W. E. Kinsey, Peoria, Ill. Separating condenser and cooler	278,056	May 22	1881*	514	23	1969
Sonn, Leopold, New York, N. Y. Show box and card	271,936	Feb. 6	427	116	23	515
Sonntag, Ernst, Lauban, Prussia, Germany. Steam-actuated valve and expansion-gear	270,854	Jan. 16	1965	364, 365	23	262
Sontheimer, Engelbert, assignor of one-half to C. Beard, New York, N.Y. Purse or bag clasp	277,064	May 8	699	182	23	1752
Sook, Joseph Q., Olivet, Kans. Hen's nest	275,088	Apr. 3	274	75	23	1273
Soper, W. Horace, Baltimore, Md. Card or ticket holder	274,400	Mar. 20	1486	409	23	1106
Sörensen, Christen, Sundsvall, Sweden. Transportable engine	275,089	Apr. 3	275	75	23	1273
Sorg, Albert, and F. D. Phillips, Ann Arbor, Mich. Paint	289,868	Dec. 11	621	.....	25	1002
Souder, Jacob J., Washington, D. C. Grain scourer and polisher	277,950	May 22	1751	477, 478	23	1946
Souders, John W., and J. Prutzman, Muncie, Ind. Brick and tile kiln	289,938	Dec. 11	702	197	25	1016
Souers, Jacob G., Mount Vernon, Ill. Mole-trap	275,280	Apr. 3	506	140	23	1312
Soule, Buren M., Cedar Rapids, Iowa. Running-gear for vehicles	283,293	Aug. 14	984	274, 275	24	683
Soulé, George W., Meridian, Miss. Blind-slat fastener	272,914	Feb. 27	1699	475	23	759
Soule, George W., Boston, Mass. Box-packing press	279,198	June 12	734	201	23	2259
Soule, Leander, Taunton, Mass. Music-rack for pianos	277,951	May 22	1752	478	23	1946
Soulis, Edward N., Newton, Mass. Oil-stone	278,190	May 22	2048	563	23	1998
South Bend Iron Works. (See Anderson, Charles, assignor.)						
South Bend Iron Works. (See Anderson and Oliver, assignors.)						
South Bend Iron Works. (See Oliver, James, assignor.)						
Southack, Cyprian F., Rathbone Place, county of Middlesex, assignor of one-half to W. Downie, London, England. Stringing pianos	279,454	June 12	1057	292	23	2311
Southard, Wilber F., Berlin, Ark. Churn	282,232	July 31	2405	661	24	440
Souther, George, Boston, Mass. Deck dumping-scow	273,178	Feb. 27	2016	567	23	815
Souther, John. (See Dooley, Thomas B., assignor.)						
Southwick, Amos A., Ashtabula, Ohio. Nail-keg	274,045	Mar. 13	1017	279	23	1016
Southwick, Amos A., Ashtabula, Ohio. Bale-tie	277,367	May 8	1059	285	23	1815
Southwick, Amos A., and F. A. Wittich, Ashtabula, Ohio; said Wittich assignor to said Southwick. Bale-tie	277,432	May 8	1135	306	23	1827
Southwick, Andrew S., assignor to G. L. Vose, Providence, R. I. Chain bracelet	280,253	June 26	2012	565	23	2491
Southwick, Daniel F., Meriden, Conn. Die for forming carriage-step pads	277,853	May 15	1635	445	23	1921
Southwick, David E., Ogdensburg, N. Y. Car-coupling	280,254	June 26	2013	566	23	2491
Southworth, Albert H., Lockport, N. Y., assignor to Illinois Iron & Bolt Company, Carpentersville, Ill. Axle-skein	277,624	May 15	1372	370	23	1873
Sowders, B. V. (See Flannagan, John D., assignor.)						
Soyez, Charles L., Brussels, Belgium. Elevator	276,491	Apr. 24	2079	577*	23	1606
Spaethe, Otto, Gera, Germany. Accordion	277,368	May 8	1060	285	23	1815
Spalding, Albert J., Alma City, Minn. Vehicle-spring	287,063	Oct. 23	1627	447	25	314
Spang, Chalfant & Co. (See Evans, John, assignor.)						
Spang, Henry W., Reading, Pa. Lightning-conductor	273,179	Feb. 27	2017	567	23	815
Spang, Henry W., Reading, Pa. Electric motor	279,036	June 5	520	142	23	2212
Spang, Henry W., Reading, Pa. Automatic electric switch	281,937	July 24	2016	559	24	370
Spang, Henry W., Reading, Pa. Lightning-conductor	284,092	Aug. 28	1973	550	24	879
Spang, Henry W., Reading, Pa. Combined support and switch for electric lamps	284,505	Sept. 4	425	121	24	976
Spang, Henry W., Reading, Pa. Electrical conductor for oil-tanks	286,086	Oct. 2	376	104	25	69
Spang, Jacob D., Jacksonville, Fla. Game-board	271,530	Jan. 30	2120	610	23	422
Spangler, Daniel, Hanford, Cal. Channeling rivers and other navigable streams	275,952	Apr. 17	1402	387	23	1482
Spangler, John H., Baltimore, Md. Ball-rack for pool-tables	288,675	Nov. 20	1119	308	25	717
Spangler, Joseph, Rock Island, Ill. Extension-ladder	281,805	July 24	1857	507	24	342
Spanier, Adam. (See Schaffer and Spanier.)						
Spare, George E., New Haven, Conn. Carriage-apron	273,180	Feb. 27	2018	567	23	815
Spare, George E., New Haven, Conn. Two-wheeled vehicle	274,401	Mar. 20	1487	409	23	1106
Sparks, Lorenzo H., Triumph, Ohio. Scale-board-rounding machine	269,893	Jan. 2	84	25	23	18
Sparks, Thomas, Kentontown, Ky. Car-coupling	281,155	July 10	1003	281	24	184
Sparks, William A., assignor to Stein Manufacturing Company, Rochester, N. Y. Burial-casket	288,189	Nov. 6	487	136	25	592
Sparks, William A., assignor to Stein Manufacturing Company, Rochester, N. Y. Burial-casket	289,783	Dec. 4	508	141	25	974
Sparks, William E., assignor to P. & F. Corbin, New Britain, Conn. Sash-fastener	270,993	Jan. 23	1448	417	23	298
Sparks, William E., assignor to P. & F. Corbin, New Britain, Conn. Door-latch	275,533	Apr. 10	874	236	23	1383
Sparks, William E., assignor to P. & F. Corbin, New Britain, Conn. Latch	279,837	June 19	1505	421	23	2395
Sparks, William E., assignor to P. & F. Corbin, New Britain, Conn. Sash-fastener	279,838	June 19	1506	421	23	2395
Sparks, William E., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-latch	273,403	Mar. 6	212	57	23	870
Sparks, William E., assignor to Kempshall Manufacturing Company, New Britain, Conn. Sash-fastener	284,506	Sept. 4	426	121	24	976
Sparks, William H., Camden, N. J. Vehicle-dash fastening	285,519	Sept. 25	1602	467	24	1212
Sparling, John A., London, county of Middlesex, England. Machinery for covering telephone and telegraph wires, &c	282,680	Aug. 7	244	71	24	542

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Spaulding, Addison R., Lake City, Minn. Railway-tie	281,806	July 24	1858	507	24	349
Spaulding, Doliver S., Mansfield, Mass. Neck or bracelet chain	290,278	Dec. 18	1124	316	25	1100
Spaulding, Ebenezer F. (See Arthur, Spaulding, and Davison.)						
Spaulding, Eli A., Athens, Ohio. Duplex hand seed-planter	273,628	Mar. 6	497	133	23	919
Spaulding, Elijah F. (See Hallock and Spaulding.)						
Spaulding, Elijah F., Hartford, Conn. Fastening for pulleys	286,340	Oct. 9	713	190, 191	25	139
Spaulding, Elijah F., assignor of two-thirds to J. K. Hallock and E. S. Smith, Erie, Pa. Cut-off-valve gear	281,314	July 17	1220	337, 338	24	228
Spaulding, Elijah F., and J. K. Hallock, assignors of one-third to E. S. Smith, Erie, Pa. Cut-off-valve gear	281,313	July 17	1218	337	24	228
Spaulding, Elijah F., and J. K. Hallock, assignors of one-third to E. S. Smith, Erie, Pa. Cut-off-valve gear	281,315	July 17	1223	338, 339	24	229
Spaulding, George H., assignor of one-half to W. Deering, Chicago, Ill. Gavel-sizing mechanism for reapers	282,581	Aug. 7	128	38	24	522
Spaulding, Henry E., Worcester, assignor of one-third to H. A. Spaulding, Boston, Mass. Bottle-stopper	283,432	Aug. 21	1170	329	24	723
Spaulding, Horatio A. (See Spaulding, Henry E., assignor.)						
Spaulding, John, San Francisco, Cal. Machine for untwisting and spinning hair from and into rope	276,492	Apr. 24	2060	578	23	1607
Spaulding, John, San Francisco, Cal. Sediment-collector for steam-boilers	276,493	Apr. 24	2061	578	23	1607
Spaulding, John, San Francisco, Cal. Carpet-beating machine	276,494	Apr. 24	2062	578	23	1607
Spaulding, Nathan W., San Francisco, Cal. Saw-tooth. (Reissue)	10,312	Apr. 10	1219	333	23	1442
Spawn, Abel F., Oakland, Cal. Fire-extinguisher	280,410	July 3	87	23	24	18
Spawn, Abel F., Oakland, Cal. Apparatus for extinguishing fires on vessels	285,520	Sept. 25	1662	467	24	1212
Spear, Arthur. (See Angell and Spear.)						
Spear, James, Philadelphia, Pa. Damper	280,411	July 3	89	24	24	18
Spear, James, Philadelphia, Pa. Heating, ventilating, and draft-regulating apparatus for railway-cars	286,341	Oct. 9	714	191	25	139
Spear, Samuel S., South Weymouth, Mass. Piping	285,850	Oct. 2	87	26	25	18
Spear, Thomas J., assignor to himself and C. E. Girardey, New Orleans, La. Method of and apparatus for extracting the fibers of jute and cotton plants	275,953	Apr. 17	1403	387	23	1483
Spearing, John F., New Orleans, La. Deepening the channels of rivers, &c	275,534	Apr. 10	875	236, 237	23	1383
Spears, Henry H., Paris, Ky. Clover-seed stripper	278,286	May 22	2180	600	23	2020
Speckhart, Gustav. (See Wiedmann, Heinrich, assignor.)						
Spedden, Robert R., Astoria, Oreg. Brace for axle-spindles	274,230	Mar. 20	1269	356	23	1068
Speed, Francis M., Walla Walla, Wash. Ter. Laying underground telegraph-wires	286,861	Oct. 16	1359	372	25	261
Speer, David H., Pittsburg, Pa. Switch-lock	276,089	Apr. 17	1569	432	23	1511
Speer, Garrett F., Philadelphia, Pa. Drying-kiln	271,144	Jan. 23	1020	466	23	327
Speer, William W., Pittsburg, Pa. Plow	290,714	Dec. 25	1713	479	25	1210
Speisser, Ottomar, New York, N. Y. Coating articles in imitation of moss-bark	284,771	Sept. 11	758	211	24	1039
Spelman Brothers. (See Spelman, William C., assignor.)						
Spelman, Mark R., New Orleans, La. Combination table and radiator	273,905	Mar. 13	857	232	23	968
Spelman, Patrick H., New York, N. Y. Fire-extinguishing apparatus and escape	289,869	Dec. 11	621	173	2	1002
Spelman, William C., Brooklyn, assignor to Spelman Brothers, New York, N. Y. Fan	270,611	Jan. 16	970	280	23	206
Spence, Sidney D., Ludlow Grove, Ohio. Grate	278,191	May 22	2049	563	23	1998
Spencer Arms Company. (See Frazier, Joseph W., assignor.)						
Spencer, Charles F., Rochester, N. Y. Fire-escape	272,389	Feb. 13	1006	282	23	626
Spencer, Charles F., Rochester, N. Y. Fire-escape	283,159	Aug. 14	816	228	24	651
Spencer, Christopher M., assignor to Hartford Machine Screw Company, Hartford, Conn. Metal-screw machine	275,431	Apr. 10	748	199	23	1362
Spencer, Edward E., New York, N. Y. Rivet-setting machine	277,369	May 8	1061	286	23	1815
Spencer, Edward H., Jr., assignor to Cooke & Eddy, Providence, R. I. Button and stud	285,080	Sept. 18	1137	317	24	1113
Spencer, Frank J. (See Bartlett, Charles, assignor.)						
Spencer, Frank T., *et al.* (See Welles, Richard J., assignor.)						
Spencer, Frank W., Flint, Mich. Railway foot-guard	287,973	Nov. 6	232	66	25	548
Spencer, George H., *et al.* (See Hodges, Horace F., assignor.)						
Spencer, George N., Three Rivers, Mich. Velocipede	270,913	Jan. 23	1345	388	23	282
Spencer, George N., assignor of one-half to H. Gaskins, Three Rivers, Mich. Railway-velocipede	288,507	Nov. 13	912	249	25	674
Spencer, George S. (See Spencer, John E. and G. S.)						
Spencer, Harvey A. (See Cutting and Spencer.)						
Spencer, Hedges L. (See White, Henry C., assignor.)						
Spencer, Henry P., Forestville, N. Y. Step-ladder	288,883	Nov. 20	1372	378	25	762
Spencer, John E. and G. S., Stratford, Conn. Advertising-windmill	276,640	May 1	190	32	23	1647
Spencer, John N., Newark, assignor of one-half to T. S. Bellah, Wilmington, Del. Polishing device	275,954	Apr. 17	1404	387	23	1483
Spencer, John P., South Pueblo, Colo. Gold-washer	272,788	Feb. 20	1517	428	23	721
Spencer, Joseph N., and T. H. Dunn, assignors of one-third to C. N. Knox, South Manchester, Conn. Bolt	284,253	Sept. 4	123	34	24	925
Spencer, Julius A., Dwight, Ill. Baling-press	278,371	May 29	2316	634	23	2053
Spencer, Robert, Brooklyn, N. Y. Saddle	270,142	Jan. 2	370	108	23	76
Spencer, Thomas, assignor to Meriden Britannia Company, Meriden, Conn. Covered dish	275,281	Apr. 3	507	140	23	1312
Spencer, William L., Springfield, Mass. Needle-threading attachment for sewing-machines	282,233	July 31	2406	662	24	440
Spengler, John, assignor of one-half to N. F. Weber, Clarion, Iowa. Car-mover	285,698	Sept. 25	1876	534	24	1252
Sperling, Isidor, assignor to J. Strauss, Chicago, Ill. Shirt	273,906	Mar. 13	858	232	23	969
Sperry, Alfred W., Hartford, Conn., assignor of one-third to T. J. Montgomery, Boston, Mass. Fire-escape	276,090	Apr. 17	1570	432	23	1511
Sperry, Alfred W., Hartford, Conn., assignor to himself and T. J. Montgomery, Boston, Mass. Sharpener for knives, &c	290,367	Dec. 18	1235	348	25	1121
Sperry, Alfred W., Hartford, Conn., assignor to himself and T. J. Montgomery, Boston, Mass. Composition for sharpening and grinding metals	290,368	Dec. 18	1236	.....	25	1121
Sperry, Elmer A., Cortland, N. Y. Combined annunciator and alarm system	286,970	Oct. 16	1499	412	25	984
Sperry, Joseph, Philadelphia, Pa. Machine for heeling boots and shoes	275,535	Apr. 10	876	237	23	1384
Spicer, George A., assignor to W. C. Edge, Newark, N. J. Bracelet	276,091	Apr. 17	1571	433	23	1511
Spicer, Pratt A., Marshall, Mich. Hay-tedder	280,873	July 10	664	187	24	124
Spicer, William A., Providence, R. I. Grate	270,499	Jan. 9	814	238	23	169
Spicer, William A., Providence, R. I. Oven-door for cooking-stoves	278,057	May 22	1862	515	23	1970
Spicer, William A., Providence, R. I. Cooking stove and range	284,916	Sept. 11	928	261	24	1069
Spickerman, Myron, *et al.* (See Farr, George, assignor.)						
Spiegel, Henry L., Indianapolis, Ind., assignor to F. W. Mix, New Britain, Conn. Case for locks. (Reissue)	10,361	July 31	2721	749		494

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Spiegel, William, Newport, Ky., assignor to McIlvain & Spiegel, Cincinnati, Ohio. Rendering-tank	269,969	Jan. 2	174	50	23	36
Spielhagen, Franz O. (See Heyer, Ludwig, assignor.)						
Spielman, William, assignor to T. H. Rockwell, Oneonta, N. Y. Railway-switch	272,789	Feb. 20	1518	428	23	721
Spielmann, Jacob. (See Spielmann, Peter and J.)						
Spielmann, Peter and J., Chicago, Ill. Automatic feeder for vinegar-generators	287,064	Oct. 23	1627	448	25	314
Spiess, Oscar, Philadelphia, Pa. Car-brake	280,255	June 26	2014	566	23	2491
Spiller, Elisha, Amite City, La. Seed-planter	279,087	June 5	521	142	23	2212
Spindle, Clarence J., Loretto, Va. Horse-detacher	281,938	July 24	2018	552	24	371
Spindle, Joseph C., Loretto, Va. Millstone-dress	285,081	Sept. 18	1138	318	24	1113
Spitzer, David C., North Robinson, Ohio. Butter-mold	285,851	Oct. 2	88	26	25	18
Spitznass, William, New Athens, Ill. Transplanter	273,181	Feb. 27	2019	568	23	815
Spoehr, Fritz, assignor of one-half to K. Weber, Philadelphia, Pa. Spring bed-bottom	276,918	May 1	489	128	23	1711
Spofford, Nelson, Haverhill, Mass. Cast faucet-joint	274,402	Mar. 20	1488	409	23	1106
Spofford, Nelson, Haverhill, Mass. Imitation wipe-joint	284,917	Sept. 11	929	261	24	1069
Spohr, Alfred F., assignor of one-half to J. Stortz, Grand Island, N. Y. Single-tree clip	284,772	Sept. 11	759	211	24	1039
Spooner, Alvah F., Sterling, Ill. Punching-machine	289,577	Dec. 4	257	72	25	933
Spooner, D. Brainerd, New York, N. Y. Liquid-meter	287,587	Oct. 30	2300	622	25	447
Spooner, D. Brainerd, Boston, Mass. Method of and registering mechanism for determinating the amount of the flow of water through a meter	287,588	Oct. 30	2301	622, 623	25	447
Spooner, Daniel, Blue Mound, Ill. Smooth-rope and knotted-wire check-rower	278,622	May 29	2617	714	23	2106
Spooner, Samuel H., Sr., *et al.* (See Bennet, Karl W., assignor.)						
Spooner, Samuel P., Bucklin, assignor of fifty-one seventy-seconds to D. B. Holmes, R. H. Drennon, W. C. Duvall, and E. Werk, Kansas City, Mo. Metallurgic furnace	274,403	Mar. 20	1489	409, 410	23	1106
Sprague, Austin V. M., assignor to Taylor Brothers, Rochester, N. Y. Razor-strop	276,092	Apr. 17	1573	433	23	1511
Sprague, Charles D. (See Sprague, Dudley D. and P. J., assignors.)						
Sprague, Charles D., Chilhowee, and P. J. Sprague, Higbee, assignors of one-third to D. D. Sprague, California, Mo. Straw-stacking attachment for thrashing-machines	289,460	Dec. 4	101	29	25	904
Sprague, Charles E., New York, N. Y. Office check-book	282,393	July 31	2606	716	24	475
Sprague, Dudley D. (See Sprague, Charles D. and P. J., assignors.)						
Sprague, Dudley D., California, and P. J. Sprague, Higbee, assignors of one-third to C. D. Sprague, Chilhowee, Mo. Straw-stacker attachment for thrashing-machines	284,507	Sept. 4	427	121	24	976
Sprague, Dudley D., California, and P. J. Sprague, Higbee, assignors to themselves and C. D. Sprague, Sedalia, Mo. Straw-stacker for thrashing-machines. (Reissue)	10,406	Nov. 20	1469	406	25	781
Sprague, Dudley D., California, and P. J. Sprague, Higbee, assignors to themselves and C. D. Sprague, Chilhowee, Mo. Straw-stacker for thrashing-machines	289,461	Dec. 4	103	30	25	905
Sprague, Dudley D., California, and P. J. Sprague, Higbee, assignors to themselves and C. D. Sprague, Chilhowee, Mo. Straw-stacker for thrashing-machines	289,462	Dec. 4	105	30	25	905
Sprague, Edward W., Buell's Lowell, Ohio. Bolt-lock	283,725	Aug. 21	1514	427	24	788
Sprague, Edwin L. (See Gregory, George W., assignor.)						
Sprague, Edwin L., Boston, Mass. Shoe	283,035	Aug. 14	670	188	24	626
Sprague, Homer B., Boston, Mass. Windmill	273,182	Feb. 27	2020	568	23	816
Sprague, Ira A., Glenwood, Iowa. Truss-bridge	287,974	Nov. 6	232	66	25	548
Sprague, Nathan K., Milford, Mass. Elevator-hatchway guard	288,884	Nov. 20	1373	378	25	762
Sprague, Nathaniel B. (See Beery and Sprague.)						
Sprague, Pearley J. (See Sprague, Charles D. and P. J.)						
Sprague, Pearley J. (See Sprague, Dudley D. and P. J.)						
Sprague, Pearley J. (See Sprague, Dudley D. and P. J.) (Reissue.)						
Sprague, Zebulon, Stockton, Cal. Vehicle-wheel	271,531	Jan. 30	2121	610	23	422
Spray, Christopher, Sedalia, Mo. Music dealer's furnishing-case	285,317	Sept. 18	1414	400	24	1163
Spreckels, John D., San Francisco, Cal. Ash-hoist	289,159	Nov. 27	1709	475	25	830
Sprick, Theodor. (See Utz and Sprick.)						
Springer, Frederick J., Edwardsville, Ill. Vehicle-spring	280,874	July 10	665	187	24	124
Springer, Frederick J. and O. J., Edwardsville, Ill. Two-wheeled vehicle	280,875	July 10	666	188	24	124
Springer, Henry J., Edwardsville, Ill. Stalk-cutter	270,994	Jan. 23	1449	417, 418	23	298
Springer, James F. and W. N., Indianapolis, Ind. Straw-stacker	287,882	Nov. 6	115	34	25	528
Springer, Joseph H., Sr., Pittsburg, Pa. Manufacture of eye-bars	270,143	Jan. 2	371	108	23	76
Springer, Lewis C., Wilmington, Del. Grinding-mill	290,369	Dec. 18	1237	348	25	1121
Springer, Otto J. (See Springer, Frederick J. and O. J.)						
Springer, T. G. (See Bain, Foreé, assignor.)						
Springer, Theodore G., New York, N. Y. Process of and apparatus for manufacturing gas	280,770	July 3	534	150, 151	24	94
Springer, Theodore G., New York, N. Y. Process of and apparatus for manufacturing gas	284,985	Sept. 11	1006	284	24	1084
Springer, Theodore G., New York, N. Y. Manufacturing illuminating-gas	287,185	Oct. 23	1779	488	25	343
Springer, William N. (See Springer, James F. and W. N.)						
Springfield Engine and Thresher Company. (See Stephan, Henry, assignor.)						
Springfield Engine and Thresher Company. (See Stuart, Alexander, assignor.)						
Springsteen, Robert E., *et al.* (See Wishard, Lucinda B. J., assignor.)						
Sproule, Adam W., assignor of one-half to C. H. Sproule, Joliet, Ill. Barbed wire for fences	275,536	Apr. 10	878	237	23	1384
Sproule, Charles H. (See Sproule, Adam W., assignor.)						
Spruce, James, assignor to Scovill Manufacturing Company, Waterbury, Conn. Spring-hinge	277,370	May 8	1062	286	23	1815
Spurgeon, Samuel J., Houstonia, Mo. Paper and envelope package	279,283	June 12	829	230	23	2275
Spurgeon, Samuel J., Liberty, Mo. Automatic circuit-closer for telegraph-keys	284,508	Sept. 4	428	121	24	976
Spurrier, Joseph H., Joplin, Mo. Hot-air magazine	286,648	Oct. 16	1094	294	25	214
Squier, George L. (See Stevens, Henry B., assignor.)						
Squire, James E., Glencoe, Ontario, Canada. Car-truck	289,160	Nov. 27	1710	476	25	830
Squires, Edward. (See Hutson and Squires.)						
St. André, Louis. (See Hall and St. André.)						
St. Charles, Charles, New York, N. Y. Ore-separator	283,296	Aug. 14	967	275, 276	24	684
St. Clair, Franklin M., Silver City, Idaho Ter. Device for utilizing the force of currents and streams	271,145	Jan. 23	1622	466	23	397
St. Clair, Lawrence. (See Weeks and St. Clair.)						
St. John, Garland B., Cedar Rapids, Iowa. Landside for plows	278,623	May 29	2618	714	23	2106
St. John, Garland B., Cedar Rapids, Iowa. Rolling landside-colter	287,336	Oct. 23	1970	538	25	376
St. John, George H., Detroit, assignor of one-half to W. W. Andrus, Attica, Mich. Bag-fastener	271,536	Jan. 30	2126	612	23	423
St. John, Lewis R. (See St. John, Roscoe M., assignor.)						
St. John, Roscoe M., assignor of one-half to L. R. St. John, Albany, Ind. Post-driver	274,989	Apr. 3	134	37	23	1248
St. John, William W., St. Louis, Mo. Piston-packing	275,955	Apr. 17	1405	387	23	1483

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
St. Louis Iron and Machine Works. (See Schinke, Carl, assignor.)						
St. Nicholas Toy Company. (See Owsley, Heaton, assignor.)						
St. Nicholas Toy Company. (See Scherling, Rudolph C., assignor.)						
Staake, William H., *et al.* (See Bennor, Joseph, assignor.)						
Stabel, John A., Buffalo, N. Y. Culinary vessel	282,394	July 31	2607	716	24	475
Stabler, James P., Sandy Spring, Md. Magneto-generator of electricity	286,497	Oct. 9	892	241	25	172
Stackpole, Aaron, Jr., Boston, Mass. Street-sweeping machine	287,186	Oct. 23	1782	488 489	25	343
Stacy, George W., Marietta, Miss. Cultivator	285,318	Sept. 18	1415	400	24	1163
Stacy, Sanford E., Springfield, Mass. Adjustable gage	288,375	Nov. 13	744	202	25	644
Stadon, Silas M. (See Laurenson, Stadon, and Laurenson.)						
Staeber, Theodor. (See Claussen and Staeber.)						
Staff, Peter N. (See Freeland and Wharry, assignors.)						
Staff, Peter N. (See Goenell, Andrew J., assignor.)						
Staff, Peter N. (See Yount, Warren, assignor.)						
Stafford, Albert E., Galesburg, Mich. Thill-coupling	283,827	Aug. 28	1644	463	24	822
Stafford, Palmer, Green River, Ill. Wagon-box fastener	277,801	May 15	1575	430	23	1910
Stahl, Harlow C., assignor to Fremont Cultivator Company, Fremont, Ohio. Standard-clamp	270,855	Jan. 16	1266	365	23	262
Stahlin, Carl A., Stockholm, Sweden. Bottle-stopper	279,455	June 12	1058	293	23	2311
Stahlin, Carl A., Stockholm, Sweden. Bottle stopper	288,885	Nov. 20	1374	379	25	762
Stahmer, Herman F., New York, N. Y. Coach	278,463	May 29	2428	662	23	2073
Stahmer, Herman F., assignor of one-half to H. Brewster, J. W. and C. M. Britton, New York, N. Y. Two-wheeled vehicle	271,532	Jan. 30	2122	611	23	422
Staib, Henry, New York, N. Y. Paper-hanging machine and rack	276,728	May 1	259	66	23	1668
Stambaugh, George W., Troy, Ill. Extension step-ladder	274,526	Mar. 27	1676	465	23	1144
Stamour, John B., assignor to T. Cunningham, L. and G. Brown, H. B. Lincoln, F. P. Pendleton, and H. E. Cunningham, Philadelphia, Pa. Loom-temple	274,404	Mar. 20	1490	410	23	1106
Stamp, John H., Mount Union, Ohio. Holdback for vehicles	272,492	Feb. 20	1147	322	23	655
Stanard, Robert T., Nashville, Tenn. Arch for street-lights	288,132	Nov. 6	420	119	25	581
Standard Boiler and Smoke Consuming Furnace Company. (See Blackburn, George, assignor.)						
Standard Cable Company. (See McElroy, William J., assignor.)						
Standard Cable Company. (See Waring, Richard S., assignor.)						
Standard Electric Manufacturing Company. (See Calahan and Delany, assignors.)						
Standard Electric Manufacturing Company. (See Delany, Patrick B., assignor.)						
Standard Time Company. (See Willson, Robert W., assignor.)						
Standing, William, St. Louis, Mo. Trace holder and detacher	276,919	May 1	490	129	23	1712
Standish, Albert, Columbus, Ohio. Foot-power hammer	280,969	July 10	782	217	24	143
Staněk, Ladislav, Prague, Bohemia, Austria-Hungary, assignor to American Steam Gauge Company, Boston, Mass. Steam-engine indicator	280,256	June 26	2015	566	23	2491
Staniels, Charles E. (See Burris and Staniels.)						
Staniels, Eva F. (See Burris and Staniels, assignors.)						
Stanley, Henry, and N. Cornelius, St. Louis, Mo. Gear-wheel	277,802	May 15	1575	430	23	1910
Stanley, Henry D. (See Doolittle and Stanley.)						
Stanley, Henry D., and G. Doolittle, Bridgeport, Conn. Electric conductor	283,433	Aug. 21	1171	329	24	723
Stanley, James, New York, N. Y. Metallic plastering-surface	290,133	Dec. 11	940	266	25	1060
Stanley, James D., Wilmington, N. C. Apparatus for charring timber	282,395	July 31	2607	716	24	475
Stanley, Robert V. (See Herkimer, Jacob, assignor.)						
Stanley Rule and Level Company. (See Campbell, John, assignor.)						
Stanley Rule and Level Company. (See Traut, Justus A., assignor.)						
Stanly, Nathan K., Newburyport, Mass. Bottle-tag	275,432	Apr. 10	750	200	23	1362
Stanly, Nathan K., Newburyport, Mass. Tag for bottles	276,298	Apr. 24	1828	509	23	1563
Stannard, William H., Lyme, Conn. Bench-dog	282,792	Aug. 7	382	108	24	567
Stansbury, John W., and J. M. Hedrick, Osceola, Iowa. Lining for burial-caskets, &c	283,526	Aug. 21	1276	.....	24	742
Stanson, James, *et al.* (See Byrnes, Joseph, assignor.)						
Stanton, Gerald N., New York, N. Y. Device for trimming and polishing the nails	282,793	Aug. 7	383	108	24	567
Stanton, John, and C. Reling, Cincinnati, Ohio. Toy	275,282	Apr. 3	508	140	23	1313
Stanton, Lafayette J., assignor of one-half to S. E. Chapman, Millbrook, Mich. Clamp for harrow-teeth	271,938	Feb. 6	427	117	23	516
Stanton, Philena, Millbrook, Mich. Harrow-tooth	278,287	May 22	2181	600	23	2020
Stanton, Sarah B., New York, N. Y. Brush-handle	287,187	Oct. 23	1783	489	25	343
Stanwood, Frank H., and M. B. Miller, Chicago, Ill. Store-service apparatus	282,582	Aug. 7	130	39	24	523
Stanwood, Thomas L., Brunswick, Me. Box-opener	278,192	May 22	2050	563	23	1998
Staples, Elisl M., assignor of one-third to D. A. Stewart, Cleveland, Ohio. Thread-cutter for sewing-machines	280,970	July 10	784	217	24	144
Staples, George B. (See Coburn, John G., assignor.)						
Stapleton, Timothy W., Portland, assignor to J. G. McBride, Pendleton, Oreg. Sand-guard for railways	285,700	Sept. 25	1877	535	24	1253
Stapp, Charles R., *et al.* (See Bushfield, Samuel B., assignor.)						
Star Electric Light and Power Company of the United States. (See Loryea and Palmer, assignors.)						
Star Electric Light and Power Company of the United States. (See Shedlock, Alfred, assignor.)						
Starbuck, Fielding M., and R. M. Taylor, Ansted, W. Va. Dinner-pail	277,371	May 8	1063	286	23	1815
Stark, Lewis G., *et al.* (See Green, William W., assignor.)						
Stark, Michael J., Buffalo, N. Y., assignor to G. J. Record, Conneaut, Ohio. Sap-spout	279,284	June 12	829	230	23	2275
Stark, Sali, New York, N. Y. Shirt	282,234	July 31	2408	662	24	440
Stark, Sali, New York, N. Y. Shirt-bosom	285,699	Sept. 25	1877	535	24	1252
Stark, William F., New York, N. Y. Coupon-clipper	284,773	Sept. 11	750	211	24	1039
Stark, William M., and F. George, Mayfield, Ky.; said George assignor to said Stark. Hair-tonic	284,918	Sept. 11	930	.....	24	1070
Starke, Fred C., and P. J. Crowley, Milwaukee, Wis. Steam-shovel	271,939	Feb. 6	428	117	23	516
Starke, Fred C., and P. J. Crowley, Milwaukee, Wis. Breaking-down shovel	271,940	Feb. 6	430	117	23	516
Starke, Fred C., and P. J. Crowley, Milwaukee, Wis. Method of and device for the application of cable-power to steam-shovels	272,790	Feb. 20	1519	428	23	721
Starkey, William, *et al.* (See Engelking, George L., assignor.)						
Starks, John L., Sharon Grove, Ky. Rotary engine	274,669	Mar. 27	1845	514	23	1175
Starley, John K., assignor to Coventry Machinists Company, (limited,) Coventry, county of Warwick, England. Tricycle	274,231	Mar. 20	1270	351	23	1068
Starling, George S., New York, N. Y. Advertising-stand	282,794	Aug. 7	384	108	24	567
Starr Brothers Bell Company. (See Bloomfield, Ellis S., Jr., assignor.)						
Starr, E. Eugene. (See Starr, Eli T. and E. E.)						
Starr, Eli T. (See Gilbert and Starr.)						
Starr, Eli T. (See Johnston, Browne, Starr, and Gilbert.)						
Starr, Eli T. (See Weston and Starr.)						
Starr, Eli T., Philadelphia, Pa. Artificial tooth	276,990	May 1	491	129	23	1712

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Starr, Eli T., assignor to S. S. White, Philadelphia, Pa. Dental engine	276,299	Apr. 24	1828	509 510	23	1563
Starr, Eli T., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa., Dental engine	278,464	May 29	2429	662 663	23	2073
Starr, Eli T., assignor to J. W. and J. M. White and H. M. Lewis, trustees, Philadelphia, Pa. Dental drill	276,921	May 1	493	129	23	1712
Starr, Eli T., Philadelphia, Pa., assignor of one-half to W. J. Peyton, Washington, D. C., H. M. Lewis, and J. W. White, Philadelphia, Pa. Secondary electric battery	279,839	June 19	1507	421 422	23	2395
Starr, Eli T., Philadelphia, Pa., assignor of one-half to W. J. Peyton, Washington, D. C., H. M. Lewis, and J. W. White, Philadelphia, Pa. Secondary battery	289,396	July 31	2608	716	24	476
Starr, Eli T., Philadelphia, Pa., assignor of one-half to W. J. Peyton, Washington, D. C., H. M. Lewis and J. W. White, Philadelphia, Pa. Secondary battery	283,295	Aug. 14	986	275	24	684
Starr, Eli T., Philadelphia, Pa., assignor of one-half to W. J. Peyton, Washington, D. C., H. M. Lewis and J. W. White, Philadelphia, Pa. Battery box or vessel	282,795	Aug. 7	385	109	24	568
Starr, Eli T., Philadelphia, Pa., assignor of one-half to W. J. Peyton, Washington, D. C., H. M. Lewis and J. W. White, Philadelphia, Pa. Electrode for electric batteries	290,942	Dec. 25	2000	551	25	1259
Starr, Eli T., Philadelphia, Pa., assignor of one-half to W. J. Peyton, Washington, D. C., H. M. Lewis and J. W. White, Philadelphia, Pa. Secondary-battery electrode	290,943	Dec. 25	2001	551	25	1260
Starr, Eli T., assignor of one-half to H. M. Lewis, J. W. White, Philadelphia, Pa., and W. J. Peyton, Washington, D. C. Secondary battery or electric accumulator	281,156	July 10	1004	281	24	184
Starr, Eli T., assignor of one-half to H. M. Lewis, J. W. White, Philadelphia, Pa., and W. J. Peyton, Washington, D. C. Electrode for electric batteries	290,941	Dec. 25	1998	551	25	1259
Starr, Eli T. and E. E., Philadelphia, Pa., assignors of one-half to W. J. Peyton, Washington, D. C. Secondary or storage battery	276,300	Apr. 24	1831	511	23	1564
Starr, Eli T. and E. E., Philadelphia, Pa., assignors of one-half to W. J. Peyton, Washington, D. C. Secondary or storage battery	276,301	Apr. 24	1834	511	23	1564
Starr, Eli T. and E. E., Philadelphia, Pa., assignors to said E. T. Starr, W. J. Peyton, Washington, D. C., H. M. Lewis and J. W. White, Philadelphia, Pa. Automatic regulator for incandescent lamps	281,412	July 17	1340	370	24	949
Starr, Eli T. and E. E., Philadelphia, Pa., assignors of one-half to W. J. Peyton, Washington, D. C. Secondary or storage battery	284,577	Sept. 4	510	143	24	990
Starr, Horace C., and W. C. Vanneman, Richmond, Ind. Grain-drill	271,533	Jan. 30	2123	611	23	422
Starr, John, Malden, Mass. Apparatus for silvering glass	277,803	May 15	1576	430	23	1910
Starr, Richard T., *et al.* (See Smith, L. Henry, assignor.)						
Starr, Thomas B. (See Smith, L. Henry, assignor.)						
Starrett, Laroy S., Athol, Mass. Beveling-instrument	289,563	Aug. 7	132	39	24	523
Starrett, Laroy S., Athol, Mass. Bevel	289,463	Dec. 4	106	31	25	905
Startsman & Co., William G. (See Petticrew, Albert E., assignor.)						
Stassen, Joseph J., Euston Road, London, England. Velocipede	284,509	Sept. 4	429	122	24	976
Staub, C. Leo, Pittsburg, Pa. Construction of buildings, ships, &c	277,952	May 22	1753	478	23	1946
Stauffer, Abraham L. and P., Stevens, Pa. Manual-power ice-cutting machine	287,863	Nov. 6	116	34	25	598
Stauffer, Philip. (See Stauffer, Abraham L. and P.)						
Staving, Henry P. (See Carey, William J., assignor.)						
Stayman, David F., Mifflinburg, Pa. Journal	283,597	Aug. 21	1977	357	24	742
Ste. Peuvroz & Cie. (See Bonnefond, Michel, assignor.)						
Stead, Isaac. (See Davis and Stead.)						
Stead, Isaac, Philadelphia, Pa. Dry amalgamator	273,775	Mar. 13	701	189	23	962
Stead, James C., Brooklyn, N. Y. Steam-generator	274,046	Mar. 13	1018	279	23	1017
Steam Gauge and Lantern Company. (See Ham, Charles T., assignor.)						
Stearns, Amos A., Cooper, Mich. Bean-planter	278,372	May 29	2318	634	23	2053
Stearns, Delilah A., *et al.*, executors. (See Stearns, George N.)						
Stearns, Edward C., *et al.*, executors. (See Stearns, George N.)						
Stearns, George F., Chester, Conn. Manufacture of auger-bits and other boring-tools	288,676	Nov. 20	1121	308	25	717
Stearns, George L., Grand Haven, Mich. Windmill	273,183	Feb. 27	2021	568	23	816
Stearns, George N., deceased, Syracuse, N. Y.; E. C. and D. A. Stearns and A. Mead, executors. Saw-clamp	288,376	Nov. 13	745	202	25	645
Stearns, Henry A., Lincoln, R. I. Automatic gas-valve	288,271	Nov. 13	603	165	25	620
Stearns, J. Milton, Jr. (See Maxwell and Stearns.)						
Stearns, J. Milton, Jr., Brooklyn, N. Y. Telephonic circuit	270,500	Jan. 9	815	238	23	169
Stearns, J. Milton, Jr., Brooklyn, N. Y. Telephone-circuit	281,413	July 17	1342	371	24	249
Stearns, J. Milton, Jr., Brooklyn, N. Y. Electric telephone	281,414	July 17	1343	371	24	250
Stearns, Oscar S., New York, N. Y., assignor to Stearns Railway Improvement Company, of New York. Self-adjusting bearing for car-axles	281,157	July 10	1005	281 282	24	184
Stearns, Oscar S., assignor of one-half to A. Rogers, New York, N. Y. Car-axle box	282,796	Aug. 7	387	109	24	568
Stearns Railway Improvement Company. (See Stearns, Oscar S., assignor.)						
Stearns, Sarah B., Duluth, Minn., assignor to herself and M. Brandenburg, Trempealeau, Wis. Ventilating-screen for windows	271,146	Jan. 23	1633	467	23	327
Stearns, Waldo A., St. Joseph, Mo. Wheeled scraper	282,681	Aug. 7	945	72	24	542
Stears, Emily A., Brooklyn, N. Y. Culinary vessel	273,629	Mar. 6	498	134	23	919
Stebbins, Frank B. (See Emery and Stebbins.)						
Stebbins, George P. (See Stebbins, Lorenzo and G. P.)						
Stebbins, Harlan J., Meriden, Minn. Gate	283,677	Aug. 21	1452	408	24	776
Stebbins, Julius M., New York, N. Y. Voltaic battery	272,493	Feb. 20	1148	323	23	655
Stebbins, Lorenzo, Hinsdale, N. H., and G. P. Stebbins, Vernon, Vt. Car-coupling	273,907	Mar. 13	858	233	23	989
Steber, Bernard T., Utica, N. Y. Match-splint separator and gatherer	271,376	Jan. 30	1924	556	23	387
Steber, Bernard T., Utica, N. Y. Match-splint machine	273,908	Mar. 13	859	233 234	23	989
Steber, Bernard T., Utica, N. Y. Machine for making paper boxes	279,285	June 12	830	230	23	2275
Steber, Bernard T., Utica, N. Y. Match-splint-adjusting machine	281,206	July 10	1077	296	24	197
Steber, Henry A., Utica, N. Y. Machine for making match-splints	290,492	Dec. 18	1412	390	25	1151
Steber, Joseph C., assignor of one-half to C. V. Manner, San Francisco, Cal. Screw-tap	284,510	Sept. 4	431	122	24	977
Stechhan, Otto, Indianapolis, Ind. Folding bed or lounge	276,729	May 1	261	66	23	1669
Steck, Paul. (See Shirpser, Isidor, assignor.)						
Stedman & Fuller. (See Hoey, John J., assignor.)						
Stedman, George E., New York, N. Y. Buckle	272,344	Feb. 13	937	260	23	614
Stedman, Oscar F., Fredonia, N. Y. Mechanical movement	281,939	July 24	2019	553	24	371
Stedman, Oscar F., Fredonia, N. Y. Sawing-machine	287,975	Nov. 6	233	66	25	548
Steedman, Francis W. (See Ames, Samuel R., assignor.)						
Steel, Robert. (See Stites, Steel, and Austin.)						
Steel, Robert, Philadelphia, Pa. Inclined plane and sled therefor	277,625	May 15	1373	370	23	1873
Steel, Robert, assignor of one-half to C. Mace, Philadelphia, Pa. Car-heater	277,626	May 15	1374	370 371	23	1873
Steele, Alva G. (See Holloway, Thomas G., assignor.)						
Steele, Elbridge J., New Britain, assignor to Cowles Hardware Company, Unionville, Conn. Sash-fastener	270,347	Jan. 9	691	183	23	131

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Steele, Elbridge J., New Britain, assignor to J. Watson, Jr., Bridgeport, Conn. Toy pistol	288,272	Nov. 13	604	165	25	621
Steele, George W., Paterson, N. J. Machine for shaping meeting-rails	283,678	Aug. 21	1453	408, 409, 410	24	776
Steele, George W., Paterson, N. J. Machine for shaping meeting-rails for sashes	290,809	Dec. 25	1837	508	25	1232
Steele, John C. (See Brake, Peter, assignor.)						
Steele, John W., Sprague, Mo. Nut-lock	286,498	Oct. 9	894	241	25	173
Steele, Lacy T., Raymond City, W. Va. Mechanic's scaffold	277,953	May 22	1756	479	23	1947
Steelman, Albert W., and W. H. Maynard, Kalamazoo, Mich. Wheel-cultivator	272,915	Feb. 27	1701	476	23	759
Steelman, Sophia, assignor of one-half to W. A. Barritt, Somers Point, N. J. Washing-machine	290,134	Dec. 11	940	266	25	1061
Steely, George H. (See Grove and Steely.)						
Steers, William, Sherbrooke, Quebec, Canada. Bench-plane	284,919	Sept. 11	930	262	24	1070
Steffen, Carl, Vienna, Austria-Hungary. Extracting sugar from molasses, sirups, or the juices of plants, &c	277,521	May 15	1943	.....	23	1852
Steffen, Christian, Jr., *et al.* (See Ingram, Milo E., assignor.)						
Stegner, Frederick A., Cincinnati, Ohio. Wooden shovel	281,158	July 10	1007	262	24	185
Stein, August, Philadelphia, Pa. Gas-generator	283,297	Aug. 14	988	276	24	664
Stein, Lewis, New York, N. Y. Combined collar-button and necktie-retainer	283,528	Aug. 21	1278	357	24	742
Stein Manufacturing Company. (See Sparks, William A., assignor.)						
Stein, Philip H., Austin, Tex., and J. Tams, Trenton, N. J.; said Tams assignor to said Stein. Fruit-squeezer	290,257	June 26	2016	566	23	2491
Steinbach, George P., Baltimore, Md. Child's carriage	270,612	Jan. 16	971	280	23	207
Steinberger, Louis, Bradford, Pa. Bag and twine holder	271,147	Jan. 23	1624	467	23	398
Steineke, Charley, Brooklyn, assignor of one-third to H. G. Von Lilienschiold, Green Point, N. Y. Clamp	274,838	Mar. 27	2038	567	23	1209
Steiner, Charles A. (See Steiner, Frederick W., assignor.)						
Steiner, Frederick W., assignor of one-half to C. A. Steiner, Plainfield, Ill. Horseshoe	283,434	Aug. 21	1172	329	24	723
Steiner, Joseph. (See Hunt, John A., assignor.)						
Steiner, Samuel J., Greenville, Ala. Physician's portable case	284,063	Aug. 28	1976	550	24	880
Steiner, William R., Frederick, Md. Endless carrier for harvesters	290,715	Dec. 25	1714	472, 473	25	1210
Steiner, William R., Frederick, Md. Grain-carrier platform	290,716	Dec. 25	1715	473	25	1210
Steinhagen, Cristofer F. C., Anderson, Tex. Water-mill	284,064	Aug. 28	1976	550	24	880
Steinhorst, Emil, Utica, N. Y. Funnel and strainer	279,989	June 26	1698	476	23	2435
Steinmetz, Caspar F., Port Chester, N. Y. Screw-cutting chuck	283,679	Aug. 21	1456	410	24	777
Steinmetz, Caspar F., Port Chester, N. Y. Machine for cutting threads on bolts	283,680	Aug. 21	1458	410	24	777
Steinmetz, M. Van B. (See Iske, Anthony and A., assignors.)						
Steinmetz, Martin V. B., *et al.* (See Keller and Myers, assignors.)						
Steinmetz, Philipp, assignor of one-half to J. Geisinger, Philadelphia, Pa. Millstone-driver	271,942	Feb. 6	432	118	23	516
Steinmetz, Philipp, and J. Geisinger, Philadelphia, Pa. Bush for vertical shafts	275,867	Apr. 17	1310	361	23	1466
Steinway, Christian F. T., New York, N. Y. Piano-action	270,914	Jan. 23	1246	388	23	282
Steitz, Jacob R., Bay View, Wis. Hay-rack	272,791	Feb. 20	1522	429	23	722
Stelle, Herbert D., and L. M. Cutting, Jerseyville, Ill. Invalid-lifter	274,527	Mar. 27	1677	465	23	1145
Steller, Charles E., Milwaukee, Wis. Sash-holder	288,273	Nov. 13	605	165	25	621
Stemen, Isaac W., Elida, Ohio. Car-signal	285,173	Sept. 18	1256	352	24	1133
Stender, Charles F. G., assignor of one-half to Garfield Manufacturing Company, Chicago, Ill. Harness-loop	279,609	June 19	1243	345	23	2349
Stengel, Charles, Hamilton, Ohio. Furniture-caster	277,954	May 22	1757	479	23	1947
Stentz, Michael, Albion, assignor to F. E. and P. A. Myers, Ashland, Ohio. Hay elevator and carrier	281,736	July 24	1762	479	24	324
Stephan, Henry, assignor to Springfield Engine and Thresher Company, Springfield, Ohio. Thrashing-machine	290,258	June 26	2017	567	23	2492
Stephens, Abner L., assignor to himself, B. F. Isenberg, and T. S. Johnston, Huntingdon, Pa. Bran or flour packer	290,771	July 3	541	151	24	95
Stephens, Benjamin F., Brooklyn, N. Y. Well	272,596	Feb. 20	1276	356	23	678
Stephens, Benjamin F., Brooklyn, N. Y. Reservoir for water-works	274,967	Apr. 3	131	37	23	1248
Stephens, Benjamin F., Brooklyn, N. Y. Apparatus for digging wells	274,968	Apr. 3	132	37	23	1248
Stephens, De Loss H., Riverton, Conn. Rotary filing-machine	279,106	June 5	625	170	23	2239
Stephens, James, assignor of one-half to J. F. Lindley, Jr., Washington, Ind. Drawer	280,412	July 3	89	24	24	18
Stephens, James A., Brockville, Ontario, Canada. Knife-edging machine	272,345	Feb. 13	937	260	23	614
Stephens, John, Hanoverton, Ohio. Pulverizing, seeding, and fertilizing harrow	283,160	Aug. 14	817	228	24	651
Stephens, John E., Salt Lake City, Utah Ter. Lamp-stove	286,862	Oct. 16	1360	373	25	261
Stephens, John G. (See Chinnock and Stephens.)						
Stephens, John G., Brooklyn, assignor to C. V. Ware, New York, N. Y. Fiber for upholstery purposes	283,161	Aug. 14	817	228	24	651
Stephens, John G., Brooklyn, assignor to C. V. Ware, New York, N. Y. Method of and apparatus for curling fibers for upholstery purposes	283,162	Aug. 14	818	228	24	651
Stephens, Samuel, assignor to Sinker, Davis & Co., Indianapolis, Ind. Rendering apparatus	282,584	Aug. 7	133	39	24	534
Stephenson, Hiram M. (See Estep, Thomas B., assignor.)						
Stephenson, John, New York, N. Y. Car-wheel guard	283,298	Aug. 14	989	276, 277	24	684
Stephenson, John, New York, N. Y. Guard attachment for city-railway cars	284,254	Sept. 4	194	34	24	925
Stephenson, John S., Peterborough, Ontario, Canada. Canoe	281,316	July 17	1225	339	24	229
Stephenson, Joseph, Osceola Mills, Pa. Car-wheel lubricator	285,082	Sept. 18	1139	318	24	1113
Stephenson, M. Elmer, assignor of one-half to C. W. Garbutt, La Porte, Colo. Twine-holder	274,047	Mar. 13	1019	279	23	1017
Sterling, Charles A., New York, N. Y. Connecting-rod for rock-drills	287,188	Oct. 23	1784	489	25	343
Sterling, Joseph A. (See Groesbeck, Sterling, Ball, and Wright.)						
Sterling, Mark L., Denver, Colo. Car-coupling	285,701	Sept. 25	1878	535	24	1253
Sterling, Theodore W. (See Moreau, Eugène, assignor.)						
Stern, Edward, New York, N. Y. Gas-stove	276,302	Apr. 24	1836	511	23	1564
Stern, Emanuel M., Walton, N. Y. Charcoal-stove	282,235	July 31	2409	662	24	441
Stern, Joseph, *et al.* (See Hilbert, Charles, assignor.)						
Stern, Julia, Brooklyn, N. Y. Poke-bonnet	284,511	Sept. 4	432	123	24	977
Stern, Moses E., Albany, N. Y. Awning	269,894	Jan. 2	85	25	23	18
Sternberger, L. & S. (See Schott, Emil, assignor.)						
Sterns, Ezra L. (See Sheehan, James H., assignor.)						
Sterns, William H., Humboldt, Nebr. Churn	285,174	Sept. 18	1257	353	24	1133
Stetefeldt, Carl A., New York, N. Y. Retorting amalgam	279,840	June 19	1509	422	23	2395
Stetefeldt, Carl A., New York, N. Y. Treating sulphides	287,737	Oct. 30	2502	.....	25	485
Stetson, Andrew A., Florida, Mo. Car-coupling	282,397	July 31	2609	717	24	476
Stetson, Bradford, Uxbridge, Mass. Folding table or flower-pot stand	289,464	Dec. 4	107	31	25	906
Stetson, Charles T., Rockland, Mass., assignor to National Waterproof Shoe Company, of Maine. Machine for channeling and trimming soles	288,377	Nov. 13	746	203	25	645

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Stetson, Joseph B., Lincoln, Me. Lantern	286,087	Oct. 2	377	104	25	69
Stetson, Thomas D. (See Groom, Levi J., assignor.)						
Stetter, Ferdinand, Dubuque, Iowa. Centrifugal bolting-machine	287,481	Oct. 30	2153	585	25	418
Stettiner, Chamottefabrik Actiengesellschaft. (See Schilling and Bunte, assignors.)						
Stettner, Albert, Jr., Berlin, Germany. Adding-machine	277,627	May 15	1374	371	23	1873
Stetzelberger, Daniel P. (See Bechtel, Wunderlich, and Stetzelberger.)						
Steup, Gustav. (See Mathes, Michael, assignor.)						
Steveley, Andrew, Frankfort, Ind. Canopy for folding beds	277,372	May 8	1064	286	23	1816
Stevens, Abraham J., Owaneco, Ill. Land-roller	273,909	Mar. 13	863	234	23	990
Stevens, Abram W., Auburn, N. Y. Vehicle-wheel hub	270,257	Jan. 9	510	150	23	110
Stevens, Albert, Davenport, Iowa. Vapor-burner	284,065	Aug. 28	1977	551	24	880
Stevens, Alden W. (See Locke, Edwin R., assignor.)						
Stevens, Amos and A. L., Philadelphia, Pa. Steam rock-drill	280,971	July 10	784	217	24	144
Stevens, Andrew J., Sacramento, Cal. Valve-gear for steam-engines	288,133	Nov. 6	422	119	25	581
Stevens, Arthur L. (See Stevens, Amos and A. L.)						
Stevens, Asher B., Stapleton, N. Y. Base rocking-chair	273,630	Mar. 6	499	134	23	920
Stevens, Asher B., Stapleton, N. Y., assignor to Thompson, Perley & Waite, Baldwinsville, Mass. Chair	270,144	Jan. 2	373	108, 109	23	76
Stevens, Benjamin D., Burlington, Vt. Safety-casing for railway-car stoves	277,854	May 15	1636	445, 446	23	1921
Stevens, Benjamin R., Grand Rapids, Mich. Carpet-sweeper	276,495	Apr. 24	2084	579	23	1607
Stevens, Chancey J. (See Roberts and Stevens.)						
Stevens, Charles D., Brooklyn, N. Y. Metallic rod-packing	271,748	Feb. 6	196	55	23	474
Stevens, Edgar G., Cleveland, Ohio. Telegraph-key	275,433	Apr. 10	750	200	23	1362
Stevens, Edward W. (See Vest, Eugene W., assignor.)						
Stevens, Frank M., and C. E. Moore, Boston, Mass.; said Moore assignor to said Stevens. Lathe	280,259	June 26	2018	567, 568	23	2492
Stevens, Frank M., assignor to Stevens Locomotive and Machine Company, New York, N. Y. Device for converting motion	285,083	Sept. 18	1140	318, 319	24	1113
Stevens, Frank M., assignor to Stevens Locomotive and Machine Company, New York, N. Y. Valve-gear for steam-engines	285,084	Sept. 18	1141	319	24	1113
Stevens, Franklin B., and J. L. Bond, Port Huron, Mich., assignors to said Stevens and T. F. Carman, Menlo Park, N. J. Marine temperature-indicator	284,774	Sept. 11	761	212	24	1039
Stevens, Henry B., assignor to G. L. Squier, Buffalo, N. Y. Machine for separating coffee, &c	270,501	Jan. 9	816	238	23	169
Stevens, Henry B., assignor to G. L. Squier, Buffalo, N. Y. Sugar-cane mill	270,502	Jan. 9	819	239	23	170
Stevens, Henry B., assignor to G. L. Squier, Buffalo, N. Y. Machine for hulling and polishing coffee, rice, &c	286,499	Oct. 9	895	241, 242	25	173
Stevens, Henry B., assignor to G. L. Squier, Buffalo, N. Y. Water-wheel	286,500	Oct. 9	897	242	25	173
Stevens, Ira, assignor of one-half to J. B. Stocklin, San José, Cal. Fruit-ladder	284,920	Sept. 11	931	262	24	1070
Stevens, Irving D. (See Eberhart and Stevens.)						
Stevens, James D., *et al.* (See Peck, Orrin B., assignor.)						
Stevens, Joel G., and E. E. Meeker, Belvidere, Ill. Revolving show-case	275,283	Apr. 3	509	140	23	1313
Stevens, John, Wonewoc, Wis. Wagon-body	275,868	Apr. 17	1311	361, 362	23	1466
Stevens, John, Neenah, Wis. Automatic grain-weighing machine	278,193	May 22	2050	563, 564, 565	23	1999
Stevens, John, Neenah, Wis. Automatic grain-weighing machine	278,194	May 22	2055	565, 566, 567	23	1999
Stevens, John, Neenah, Wis. Fountain-brush	288,598	Nov. 13	1019	280	25	694
Stevens, John C., Natick, Mass. Machine for setting, swaging, and sharpening saws	276,641	May 1	121	32	23	1648
Stevens, John L., assignor to E. Hempstead, Chicago, Ill. Egg-carrier	279,199	June 12	735	201	23	2259
Stevens, John S., C. G. Major, and D. P. Edwards, London, England. Lift and hoist	282,236	July 31	2410	662, 663	24	441
Stevens, Joseph, San Francisco, Cal. Straw-burning boiler	271,148	Jan. 23	1626	467	23	328
Stevens, Joshua, Chicopee Falls, Mass. Cutting-nippers	287,589	Oct. 30	2303	623	25	448
Stevens Locomotive and Machine Company. (See Stevens, Frank M., assignor.)						
Stevens, Lucius M. (See Bradley, Jeremy, assignor.)						
Stevens, Miles H. (See Walker, Richard H., assignor.)						
Stevens, Moody A., Anoka, Minn. Three-wheeled vehicle	281,575	July 17	1540	422	24	282
Stevens, Nathan P., Concord, N. H. Steam-boiler	270,915	Jan. 23	1347	388	23	282
Stevens, Nathan P., assignor, by mesne assignments, to himself and L. D. Brown, Concord, N. H. Machine for dressing hoops	281,737	July 24	1763	479	24	325
Stevens, Oscar A., and E. L. Du Barry, Washington, D. C. Apparatus for the distillation of ammoniacal liquors	282,398	July 31	2610	717	24	476
Stevens, Richard, and W. I. Mann, Braddock, Pa. Lubricator	283,361	Aug. 14	1079	303	24	701
Stevens, Samuel N., Asheville, N. C. Gun-stock	279,841	June 19	1510	422	23	2396
Stevens, Sidney M., De Kalb, Ill. Door-hanger	287,065	Oct. 23	1629	448	25	314
Stevens, Sidney M., De Kalb, Ill., assignor, by mesne assignments, to Washburn & Moen Manufacturing Company, Worcester, Mass., and I. L. Ellwood, De Kalb, Ill. Machine for twisting barbed fence-wire	272,095	Feb. 13	635	173	23	561
Stevens, William, Philadelphia, Pa. Hatchway-gate	279,610	June 19	1244	345	23	2349
Stevens, William, Philadelphia, Pa. Hatch-gate for elevators	279,611	June 19	1245	345	23	2350
Stevens, William, Philadelphia, Pa. Elevator-hatch	279,612	June 19	1246	345	23	2350
Stevens, William, Philadelphia, Pa. Hatchway for elevators	287,590	Oct. 30	2304	623	25	448
Stevens, William J., New York, N. Y. Joint for railway-rails	288,378	Nov. 13	747	203	25	645
Stevens, William X., Washington, D. C. Mechanical toy. (Reissue)	10,319	Apr. 24	2154	599	23	1619
Stevens, William X., Washington, D. C. Apparatus for aging whisky	272,346	Feb. 13	938	261	23	615
Stevens, William X., Washington, D. C. Mechanical toy	274,148	Mar. 20	1161	320	23	1048
Stevenson, Elmer E., Quincy, Minn. Draft-equalizer	280,876	July 10	667	188	24	125
Stevenson James B., *et al.* (See Radford, Thomas, assignor.)						
Stevenson, Leonard, Solon, and W. B. Jacobs, Traverse City, Mich. Whiffletree attachment	278,288	May 22	2182	600	23	2021
Stevenson, Thomas S., St. Louis, Mo. Wire-rope machine	288,677	Nov. 20	1122	308	25	717
Stevenson, William, *et al.* (See Radford, Thomas, assignor.)						
Stevenson, William G., Morenci, Mich. Dental mallet	283,828	Aug. 28	1644	463	24	892
Stever, Jeremiah, Bridgeport, assignor of one-half to G. H. Clowes and E. L. Frisbee, Jr., Waterbury, Conn. Fire-escape	270,995	Jan. 23	1450	418	23	298
Stever, Jeremiah, assignor to Bridgeport Automatic Safety Ladder and Hardware Company, Bridgeport, Conn. Fire-escape	283,163	Aug. 14	820	229, 230	24	652
Stever, Jeremiah, assignor of one half to F. Armstrong, Bridgeport, Conn. Machine for ironing corsets	286,238	Oct. 9	556	152, 153	25	112
Stever, Sol. F., Fairfield, Iowa. Railway-rail joint	289,465	Dec. 4	108	31, 32	25	906

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Steward, Demetrius M., Cincinnati, Ohio. Electrical insulator	271,994	Feb. 6	506	136	23	528
Steward, Demetrius M., Cincinnati, Ohio. Electrical insulator. (Reissue)	10,344	June 19	1589	445	23	2410
Steward, John F., Plano, Ill. Grain-binder	272,597	Feb. 20	1277	356	23	678
Steward, John F., Chicago, Ill. Grain-binder	272,598	Feb. 20	1279	357	23	678
Steward, John F., Chicago, Ill. Combined harvester and truck	276,642	May 1	122	32	23	1648
Steward, N. Harper. (See Romaine, David, assignor.)						
Stewart, Alexander, Philadelphia, Pa. Cuspidor	276,496	Apr. 24	2084	579	23	1607
Stewart, Alexander, Philadelphia, Pa. Sheet-metal can	290,135	Dec. 11	941	267	25	1061
Stewart, Alexander, Philadelphia, Pa. Coffee and tea pot	290,136	Dec. 11	942	267	25	1061
Stewart, Andrew G., Oakland, Cal. Cylinder for thrashers	283,529	Aug. 21	1278	358	24	743
Stewart, Charles, Camden, N. J. Switch and signal mechanism for railways	271,534	Jan. 30	2194	611	23	422
Stewart, Daniel A. (See Staples, Elial M., assignor.)						
Stewart, Daniel E., Guyandotte, W. Va. Pipe-tongs	283,164	Aug. 14	892	230	24	652
Stewart, Edward. (See Kretsinger and Stewart.)						
Stewart, Edward, Battle Creek, assignor of one-half to R. W. Lonsbery, Richland, Mich. Balanced valve	278,058	May 22	1883	515	23	1970
Stewart, Harry C., Harrisburg, Pa. Sewer-trap	274,149	Mar. 20	1162	320	23	1048
Stewart, Helen A., Concord, N. H. Respirator	279,200	June 12	736	202	23	2259
Stewart, Henry, Erie, Pa. Abacus attachment for school-slates	271,749	Feb. 6	196	55	23	474
Stewart, James T. (See Hunter and Stewart.)						
Stewart, John, New York, N. Y. Umbrella	285,702	Sept. 25	1879	535	24	1253
Stewart, John L., Philadelphia, Pa. Apparatus for producing illuminating or heating gas	282,399	July 31	2612	718	24	477
Stewart, Julius H., San Francisco, Cal. Breech-loading ordnance	286,649	Oct. 16	1094	295	25	215
Stewart, Madison L. (See Winkelmann and Stewart.)						
Stewart, Samuel, Newark, N. J. Station-indicator	288,379	Nov. 13	748	203	25	645
Stewart, Samuel J., assignor of one-half to W. A. Levering, Philadelphia, Pa. Car-tracker	275,728	Apr. 10	1119	306	23	1425
Stewart, Thomas H., New York, N. Y. Side-drawer case for sewing-machines	277,955	May 22	1758	479	23	1947
Stewart, William P., New York, N. Y. Toy knitting-machine	289,578	Dec. 4	259	72	25	933
Stewartson, William B. (See Sindell and Stewartson.)						
Stewartson, William B., assignor to Voigt, Ward & Co., Pittsburg, Pa. Glass shade-holder	273,184	Feb. 27	2021	568	23	816
Stichter, Walter H., Pottsville, Pa. Device for hanging up hats	269,970	Jan. 2	175	50	23	30
Stick, William C., Hanover, Pa. Fertilizer-distributer	281,317	July 17	1226	339	24	229
Stickle, James, Denver, Colo. Molding and treating slag for paving and other purposes	289,939	Dec. 11	702	.....	25	1016
Stickle, William H., assignor, by mesne assignments, to T. D. Olin, Terre Haute, Ind. Vehicle-spring. (Reissue)	10,372	Aug. 21	1533	432	24	791
Stickney, Charles W., Washington, D. C. Ore-separator	270,259	Jan. 9	512	150	23	110
Stickney, Charles W., Washington, D. C. Rock-drill	270,613	Jan. 16	972	281	23	207
Stickney, Charles W., Washington, D. C. Surveying-instrument	272,494	Feb. 20	1149	323	23	656
Stickney, Charles W., Washington, D. C. Ellipsograph	274,528	Mar. 27	1678	465, 466	23	1145
Stickney, Charles W., Washington, D. C. Diaphragm water-meter	285,175	Sept. 18	1258	353	24	1134
Stickney, Henry R., 2d. (See Baxter and Stickney.)						
Stickney, John H., Portsmouth, N. H. Brad-awl	270,258	Jan. 9	511	150	23	110
Stiefenhofer, Franz X., South Easton, Pa. Wheat-scouring apparatus	270,145	Jan. 2	374	109	23	76
Stieringer, Luther, New York, N. Y. Extension-electrolier	272,169	Feb. 13	723	199	23	577
Stieringer, Luther, New York, N. Y. Support for electric-light conductors	278,465	May 29	2431	663	23	2073
Stieringer, Luther, assignor to Edison Electric Light Company, New York, N. Y. Safety-catch for electric-light circuits	281,576	July 17	1541	422	24	282
Stierle, Adam, Philadelphia, Pa. Dumping-scow	278,829	June 5	208	62	23	2158
Stietenroth, Andrew L., Natchez, Miss. Feeder for cotton-gins	278,195	May 22	2059	567	23	2000
Stiker, Flavius P., Toronto, Ontario, Canada. Saccharification of starch	270,260	Jan. 9	513	150	23	110
Stiles, Frederic, assignor of one-half to E. L. Bennett, Binghamton, N. Y. Cigar-coloring machine	273,185	Feb. 27	2022	569	23	816
Stiles, George A., West Gardner, Mass. Rocking-chair	279,886	June 19	1565	438	23	2406
Stiles, George A., West Gardner, assignor to W. Hill, Boston, Mass. Folding chair	284,921	Sept. 11	931	262	24	1070
Stiles, Norman C., Middletown, Conn. Drop-hammer. (Reissue)	10,324	May 8	1145	308	23	1820
Stiles, Norman C., Middletown, Conn. Drop-hammer	270,146	Jan. 2	375	109	23	76
Still, Henry, Beloit, Kans. Scuffle-hoe	289,723	Dec. 4	442	124	25	964
Stillman, George F., Madison, Wis. Micrometer-calipers	279,038	June 5	522	142	23	2212
Stillman, Thomas B. (See Koefoed and Stillman.)						
Stillson, Daniel C., Somerville, Mass. Feed-water heater	277,075	May 8	717	186	23	1754
Stilson, Edward B. (See Yerby and Stilson.)						
Stilson, Edward B., assignor of one-half to J. B. De Lamater, Leslie, Mich. Drag-saw	271,149	Jan. 23	1626	468	23	328
Stilwell, Charles B., Watertown, N. Y., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine	279,505	June 12	1117	309, 310	23	2390
Stilwell, Edwin R., Dayton, Ohio. Feed-water heater and purifier	274,048	Mar. 13	1020	279	23	1017
Stilwell, Edwin R., Dayton, Ohio. Feed-water heater	278,196	May 22	2060	567	23	2000
Stilwell, Emeline C., *et al.* (See Stilwell, Rickason, assignor.)						
Stilwell, Henry M. (See Kenfield and Stilwell.)						
Stilwell, Ida. (See Kenfield and Stilwell, assignors.)						
Stilwell, Lysander, Newark, N. J. Gas crucible-furnace	275,284	Apr. 3	510	141	23	1313
Stilwell, Rickason, assignor to B. Willard and E. C. Stilwell, New York, N. Y. Electric galvanic mattress	285,852	Oct. 2	88	26	25	18
Stilwell, Rickason, assignor to B. Willard and E. C. Stilwell, New York, N. Y. Applying electrical or galvanic currents to beds, couches, &c	285,853	Oct. 2	89	27	25	18
Stilwell, Rickason, assignor to B. Willard and E. C. Stilwell, New York, N. Y. Electric mattress-spread	285,854	Oct. 2	90	27	25	18
Stimpson, Edward S., assignor to Dutcher Temple Company, Hopedale, Mass. Loom-temple	288,742	Nov. 20	1207	330	25	731
Stimpson, Edwin B., Brooklyn, N. Y. Fastening for leggins and overgaiters	270,147	Jan. 2	379	110	23	77
Stimpson, Edwin B., Brooklyn, N. Y. Sole-edge-finishing tool	270,148	Jan. 2	380	110	23	77
Stimpson, Edwin B., Brooklyn, N. Y. Leggin	271,150	Jan. 23	1627	468	23	328
Stimson, Harlan P., assignor to H. B. Goodrich, Chicago, Ill. Sewing-machine jack	272,390	Feb. 13	1007	282	23	626
Stimson, Henry D., Haddonfield, N. J. Paper box	289,161	Nov. 27	1710	476	25	830
Stinebring, George W., Shreve, Ohio. Insertible saw-tooth	285,176	Sept. 18	1260	353	24	1134
Stinson, Charles K., Boston, assignor to L. Ladd, Needham, Mass. Clothes-wringer	287,782	Oct. 30	2562	689	25	490
Stirckler, Albert E., assignor to himself, J. W. Stirckler, Worcester, and A. Eppler, Jr., Boston, Mass. Rotary cutter	284,086	Aug. 28	1978	551	24	880
Stirckler, John D., *et al.* (See Stirckler, Albert E., assignor.)						
Stirewalt, Valentine, Davidson College, N. C. Fly-fan	271,535	Jan. 30	2126	612	23	423
Stirewalt, Valentine, Davidson College, N. C. Churn	276,922	May 1	496	129, 130	23	1712
Stirk, Albert, Boston, Mass. Embossing-machine	283,829	Aug. 28	1645	463, 464	24	822

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr's.	Vol.	Page.
Stirk, William E., Leadville, Colo., assignor to A. P. Brayton, San Francisco, Cal. Ore-concentrator	286,342	Oct. 9	715	191, 192	25	140
Stirn & Lyon. (See Marks, Herman P., assignor.)						
Stites, George, assignor to C. Mace, Philadelphia, Pa. Machine for coiling and tempering springs	280,589	July 3	233	61, 62, 63	24	42
Stites, George, R. Steel, and S. Austin, Philadelphia, Pa., assignors to United States Spring Car-Motor Construction Company, Camden, N. J. Spring car-motor	271,151	Jan. 23	1629	468, 469	23	328
Stith, Lewis B., Goldsborough, N. C. Cotton-stalk chopper	281,577	July 17	1543	422	24	283
Stitt, Washington G., J. Lowbridge, and A. Rosenkranz, assignors of one-half to P. Walter, Jr., Allegheny, Pa. Car starter and brake	288,678	Nov. 20	1123	309	25	717
Stitzel, Frederick, Louisville, Ky. Piston-valve	279,887	June 19	1566	439	23	2406
Stitzel, Frederick, Louisville, Ky. Car-coupling	283,681	Aug. 21	1459	411	24	777
Stitzel, Frederick, assignor of one-half to A. Reutlinger, Louisville, Ky. Gas-pump	283,036	Aug. 14	671	189	24	626
Stock, Frank, Jr., assignor of two-thirds to J. L. and P. H. Stock, San José, Cal. Pump-valve	286,742	Oct. 16	1213	327	25	235
Stock, Hosea T. (See Hall, Almon, assignor.)						
Stock, Hosea T., Toledo, Ohio. Railway ditching and excavating machine	273,631	Mar. 6	501	134	23	920
Stock, Hosea T., Toledo, Ohio. Machinery for swinging cranes	283,037	Aug. 14	673	189	24	627
Stock, John L., *et al.* (See Stock, Frank, Jr., assignor.)						
Stock, P. H., *et al.* (See Stock, Frank, Jr., assignor.)						
Stockbridge, Virgil D., Washington, D. C. Retention device for umbrellas and parasols	286,501	Oct. 9	899	242	25	173
Stockdale, Levi, Zanesville, Ohio. Heater	278,466	May 29	9433	663	23	2074
Stocker, John, *et al.* (See Schmidt, Christian, assignor.)						
Stockford, Benjamin F., Sturgis, Mich. Wrench	281,318	July 17	1296	339	24	229
Stocking, Edgar B., Washington, D. C. Making cell-cases	276,497	Apr. 24	2065	579, 580	23	1607
Stocking, Edgar B., Washington, D. C., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Making square paper bags	279,109	June 5	625	170, 171	23	2229
Stocking, Zalmon S. (See Lippy and Stocking.)						
Stocking, Zalmon S., Cleveland, Ohio. Feeding mechanism for thrashing-machines	289,724	Dec. 4	443	124	25	964
Stocklin, John B. (See Stevens, Ira, assignor.)						
Stockman, George W., Indianapolis, Ind. Absorber for ammonia-refrigerators	275,869	Apr. 17	1312	362	23	1466
Stockton, Philip K., St. Helena, Cal. Sulky-plow	275,956	Apr. 17	1406	388	23	1483
Stockwell, Emory, assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Burglar-proof safe	286,088	Oct. 2	378	105	25	69
Stockwell, Emory and H. C., assignors to Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock	290,609	Dec. 18	1570	431	25	1177
Stockwell, Herbert C. (See Stockwell, Emory and H. C.)						
Stockwell, Herbert C., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock	280,260	June 26	2020	568	23	2492
Stockwell, Levi W., Cleveland, Ohio. Electric motor	284,255	Sept. 4	124	34	24	926
Stockwell, Levi W., assignor to A. Adams, Cleveland, Ohio. Automatic hose-reel. (Reissue)	10,412	Nov. 27	1971	548	25	879
Stoddard, Charles A., Providence, R. I. Roller-skate	288,506	Nov. 13	913	249	25	674
Stoddard, E. Fowler. (See Nickum, George S., assignor.)						
Stoddard, Eben M., and J. N. Johnson, Norfolk, Va. Stopper for wire rope, &c	286,863	Oct. 16	1361	373	25	261
Stoddard, Evan M., *et al.* (See Buie, Duncan M., assignor.) (Reissue.)						
Stoddard, John H., *et al.* (See Rice, Darius C., assignor.)						
Stoddard, Oscar, assignor to E. J. Johnson and N. L. Upson, Cincinnati, Ohio. Door-knob attachment	280,877	July 10	667	188	24	125
Stoddard, Samuel G. (See Somers and Stoddard.)						
Stoddard, Solomon P., New York, N. Y. Lock	271,662	Feb. 6	92	25	23	456
Stoddard, Solomon P., New York, N. Y. Lock	271,663	Feb. 6	93	25	23	456
Stoddard, William L., Elvaston, Ill. Hollow auger	270,856	Jan. 16	1267	366	23	263
Stoessiger, Augustus C., Chicago, Ill. Stove-platform	281,908	July 10	1080	297	24	197
Stoever, Jeremiah L. (See Forney and Stoever.)						
Stoffiet, Joseph, Seigfried's Bridge, Pa. Fire-escape	285,319	Sept. 18	1416	400	24	1163
Stokes, Robert L., Jeffersonville, Ind. Lamp-bracket	275,434	Apr. 10	751	200	23	1362
Stoll, Adam J., Sandusky, Ohio. Ice and salt mixing apparatus	285,521	Sept. 25	1664	468	24	1212
Stollmeyer, Conrad F., Port of Spain, Trinidad, West Indies. Manufacture of oils from vegetables, &c	271,664	Feb. 6	94	.....	23	456
Stollwerck, Gebr. (See Hartman, Eugen F. G., assignor.)						
Stollwerck, Gebr. (See Michaelis, Hugo, assignor.)						
Stollwerck, Gebr. (See Stollwerck, Heinrich, assignor.)						
Stollwerck, Heinrich, assignor to Gebr. Stollwerck, Cologne-on-the-Rhine, Prussia, Germany. Steam-boiler	272,347	Feb. 13	940	261	23	615
Stollwerck, Heinrich, assignor to Gebr. Stollwerck, Cologne, Prussia, Germany. Cooling apparatus	277,804	May 15	1577	431	23	1910
Stollwerck, Heinrich, assignor to Gebr. Stollwerck, Cologne-on-the-Rhine, Prussia, Germany. Steam-boiler	286,864	Oct. 16	1362	373, 374	25	961
Stolz, Matthew. (See Schmelter, John, assignor.)						
Stombs, Charles H. (See Smiley and Stombs.)						
Stommel, Julius, assignor of one-half to H. E. Copenhaver, Washington, D. C. Street-pavement	283,399	Aug. 14	991	277	24	684
Stone, Charles M., *et al.* (See Crandal, George L., assignor.) (Reissue.)						
Stone, Daniel E., *et al.* (See Gilliland, James F., assignor.)						
Stone, Edgar T., Spanish Hollow, Oreg. Car-brake	272,348	Feb. 13	941	261	23	615
Stone, Gustavus. (See Benoit, Fredrick, assignor.)						
Stone, Heman W., Jr., Morris, Minn. Gear-wheel	288,134	Nov. 6	423	119	25	569
Stone, Henry, Irvington, N. J. Cover for chamber-pails, &c	287,189	Oct. 23	1785	489	25	343
Stone, Henry S., Orange, and J. M. F. Shepler, Lyon's Station, Ind. Straw-stacking machine	271,943	Feb. 6	433	118, 119	23	517
Stone, James M., Howe, Tex. Cotton-stalk cutter	274,670	Mar. 27	1847	515	23	1176
Stone, John H., Hamilton, Ontario, Canada. Tubular lantern	273,910	Mar. 13	864	234	23	990
Stone, John W., Independence, Mo. Hay-elevator	276,498	Apr. 24	2088	580	23	1608
Stone, Livingston, Charlestown, N. H. Fish-egg-hatching trough	277,805	May 15	1578	431	23	1911
Stone, Marvin C., Falls Church, Va. Combined finger-ring and tooth-pick	272,985	Feb. 27	1779	498	23	772
Stone, Marvin C., Falls Church, Va. Coat-spring	281,578	July 17	1544	423	24	283
Stone, Nathan L., Potsdam, N. Y. Finishing photographic pictures	286,343	Oct. 9	716	192	25	140
Stone, Ralph E., Oswego, N. Y. Fruit-bleacher	281,940	July 24	2020	553	24	371
Stone, Robert H., Brighton, Victoria. Manufacturing artificial stone	280,332	June 26	2114	.....	23	2508
Stone, Roy, New York, N. Y. Hoisting apparatus	271,537	Jan. 30	2127	612, 613	23	423

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stone, Roy, New York, N. Y. Grapple	271,538	Jan. 30	2131	613	23	493
Stone, Roy, New York, N. Y. Hydraulic excavating-machine	281,415	July 17	1344	371	24	250
Stone, Thomas, *et al.* (See Dunn, William J., assignor.)						
Stone, Thomas M., Mutual, Ohio. Thill-coupling jacks	287,884	Nov. 6	117	35	25	528
Stone, William A., Lorain, Ohio. Journal and stuffing box	272,170	Feb. 13	725	200	23	577
Stone, William H., *et al.* (See Crandal, George L., assignor.) (Reissue.)						
Stonebraker, William, Hagerstown, Ind. Hominy-mill	285,085	Sept. 18	1144	320	24	1114
Stonehouse, Robert, *et al.* (See Holden, Henry H., assignor.)						
Stonemetz, John H., Erie, Pa. Machine for moistening paper	275,957	Apr. 17	1407	388	23	1484
Stonemetz, John H., Erie, Pa. Appliance for making stereotype-plates	275,958	Apr. 17	1408	388	23	1484
Stonemetz, John H., and W. G. Bennett, Erie, Pa. Packing device for paper-folding and similar machines	277,806	May 15	1579	431	23	1911
Stoner Automatic Scale Company. (See Stoner, John B., assignor.)						
Stoner, John B., assignor to Stoner Automatic Scale Company, New York, N. Y. Automatic grain-scale	289,784	Dec. 4	509	141	25	975
Stoney, Francis G. M., London, England. Sluice or flood gate	282,400	July 31	2614	718	24	477
Stoney Landing Company. (See Ravenel, St. Julien, assignor.)						
Stong, Joseph E., Toronto, Ontario, Canada. Gate	273,186	Feb. 27	2023	569	23	816
Stoody, Jacob, assignor to himself and W. H. Riahel, Ripley, Ohio. Carriage-top setter	273,187	Feb. 27	2023	569	23	816
Stopple, John J., Belleville, Tex. Coffee-roaster	270,503	Jan. 9	821	239	23	170
Storer, George W., Philadelphia, Pa. Electric valve-gear for steam-engines	281,379	July 17	1544	423, 424	24	283
Storer, Ira A., San Francisco, Cal. Buntline for reefing sails	272,171	Feb. 13	726	200	23	578
Storm, Edward, Poughkeepsie, N. Y. Two-wheeled vehicle	270,504	Jan. 9	821	239	23	170
Storm, Edward, Poughkeepsie, N. Y. Bushing for couplings	270,857	Jan. 16	1268	366	23	263
Stortz, John. (See Spohr, Alfred F., assignor.)						
Story, Alexander, Washington, Iowa. Car-coupling	275,870	Apr. 17	1313	362	23	1466
Story, Ephraim J., assignor of one-half to G. A. Gustin, Washington, D. C. Treating lumber	276,499	Apr. 24	2089	580	23	1608
Stoesmeister, Albert W., Newport, Ky. Stove-pipe shelf	284,256	Sept. 4	125	35	24	926
Stoufer, Elijah W., Salida, Colo. Apparatus for treating ores	275,729	Apr. 10	1119	306	23	1425
Stough, Samuel. (See Snyder, Stough, and Ulrick.)						
Stout, Abraham. (See Kichline, William E., assignor.)						
Stout, Albert L., Middletown, Kans. Flood-gate	281,941	July 24	2021	553	24	371
Stout, Mills & Temple. (See Gilbert, Henry J., assignor.)						
Stout, Mills & Temple. (See Livingston, John, assignor.)						
Stout, Samuel H. (See Calver and Stout.)						
Stout, Stanley S., *et al.* (See Rintelman, August, assignor.)						
Stovall, Washington L., Winona, Miss. Gate-latch	277,807	May 15	1580	432	23	1911
Stovall, Washington L., Winona, Miss. Gate-latch	290,717	Dec. 25	1717	473	25	1211
Stover, Daniel C. (See Devore and Stover.)						
Stover, Daniel C., Freeport, Ill. Cash-carrier	270,261	Jan. 9	514	151	23	111
Stover, Daniel C., Freeport, Ill. Check-row cord	272,916	Feb. 27	1701	476	23	759
Stover, Daniel C., Freeport, Ill. Grinding-mill	272,917	Feb. 27	1702	476	23	759
Stover, Daniel C., Freeport, Ill. Check-row cord	277,956	May 22	1759	479	23	1947
Stover, Daniel C., Freeport, Ill. Wire-barbing machine	287,783	Oct. 30	2563	689	25	496
Stover, Daniel C., Freeport, assignor to I. L. Ellwood & Co., De Kalb, Ill. Machine for manufacturing barbed fence-wire	278,624	May 29	2619	715, 716	23	2106
Stover, Daniel C., assignor to Stover Manufacturing Company, Freeport, Ill. Grinding-mill	282,682	Aug. 7	948	72	24	542
Stover, Daniel C., Freeport, assignor to I. L. Ellwood & Co., De Kalb, Ill. Wire-barbing machine	285,855	Oct. 2	91	27	25	18
Stover, Isaac L., Centralia, Ill. Steam-boiler-tube cleaner	270,614	Jan. 16	973	281	23	907
Stover, Isaac L., Centralia, Ill. Car-coupling	279,201	June 12	737	202	23	2259
Stover, Isaac L., Centralia, Ill. Fire-escape	283,038	Aug. 14	674	189	24	697
Stover Manufacturing Company. (See Stover, Daniel C., assignor.)						
Stowe, Benjamin L., Brooklyn, assignor to J. V. Reed, New York, N. Y. Car-brake	272,096	Feb. 13	637	173	23	562
Stowe, Benjamin L., Brooklyn, assignor to J. V. Reed, New York, N. Y. Car-brake	272,098	Feb. 13	643	174, 175	23	563
Stowe, Benjamin L., assignor to J. V. Reed, New York, N. Y. Automatic car-brake	272,097	Feb. 13	639	173, 174	23	562
Stowell, Barna T., Somerville, Mass. Steam-condenser	285,703	Sept. 25	1880	536	24	1253
Stowell, John M. (See Cunningham, Albert, assignor.)						
Stowell, Nathan W., Los Angeles, Cal. Mold for making cement pipe	270,704	Jan. 16	1092	312	23	298
Stowell, Nathan W., Los Angeles, Cal. Mold for manufacturing cement pipe. (Reissue)	10,409	Nov. 20	1473	407	25	782
Stowell, Nellie S., New York, N. Y. Hair-front	279,990	June 26	1699	477	23	2435
Stowers, Nathaniel B., Sandy Point, Me. Driving-rein guide	280,530	July 3	235	63	24	42
Strachan, John, New York, N. Y. Bushing for tube-sheets	278,625	May 29	2623	716	23	2107
Strachan, Robert P., and G. Henshaw, Long Row, Victoria Street, Bristol, England. Card-scoring machine	289,162	Nov. 27	1711	476	25	830
Strack, Charles F., assignor of one-half to A. M. Brackenridge, Fort Wayne, Ind. Railway-gate	272,099	Feb. 13	646	175, 176	23	563
Strader Bros. (See Strader and Wittich, assignors.)						
Strader, Levi T. (See Field, Albert D., assignor.)						
Strader, Peter W. (See Wittich and Strader.)						
Strader, Peter W., and F. A. Wittich, assignors to Strader Bros., Ashtabula, Ohio. Washing-machine	273,776	Mar. 13	702	189	23	962
Strachl, Leo, Detroit, Mich. Fire-escape	289,163	Nov. 27	1712	477	25	830
Straight, Clarence H., Bryan, Ohio. Two-wheeled vehicle	276,500	Apr. 24	2090	581	23	1608
Straight, Clark H., assignor of one-half to G. H. Straight, Bristol, R. I. Rubber boot and shoe	270,348	Jan. 9	622	184	23	131
Straight, George H. (See Straight, Clark H., assignor.)						
Strail, George S. (See Earle and Strail.)						
Strait, C. L. (See Strait, William, assignor.)						
Strait, James L., Thomas, Mo. Pipe-tongs	290,810	Dec. 25	1838	508	25	1232
Strait, Ransom E., Galesburg, Mich. Grain-binder	288,509	Nov. 13	914	250	25	674
Strait Thomas M., Troy, N. Y. Corkscrew	279,202	June 12	738	202	23	2259
Strait, Thomas M., Troy, N. Y. Corkscrew	279,203	June 12	739	203	23	2259
Strait, William, assignor to C. L. Strait, Elmira, N. Y. Sulky-plow	275,090	Apr. 3	276	76	23	1273
Strait, William, Elmira, N. Y., assignor to C. L. Strait. Hillside-plow	290,610	Dec. 18	1571	432	25	1178
Straith, Peter, Toronto, Ontario, Canada. Machine for sharpening the knives of reapers and mowers	270,858	Jan. 16	1269	366	23	263
Strand, George H. (See Munson and Strand.)						
Stranders, Walter, New York, N. Y., assignor to E. H. Snow, Orange, N. J. Sliced picture	280,878	July 10	668	188	24	125
Strange Cylinder Saw and Machine Company. (See Strange, Elias W., assignor.)						
Strange, Elias, *et al.* (See Strange, Emerson C., assignor.)						
Strange, Elias, E. W., and E. C., Taunton, Mass. Manufacture of twist-drills	273,392	Mar. 6	102	31	23	852

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Strange, Elias W. (See Strange, Elias, E. W., and E. C.)						
Strange, Elias W., *et al.* (See Strange, Emerson C., assignor.)						
Strange, Elias W., assignor to Strange Cylinder Saw and Machine Company, Taunton, Mass. Set-works for saw-mills	290,137	Dec. 11	943	267	25	1061
Strange, Emerson C. (See Strange, Elias, E. W., and E. C.)						
Strange, Emerson C., assignor of two-thirds to E. and E. W. Strange, Taunton, Mass. Manure-spreader	285,086	Sept. 18	1146	320	24	1114
Strange, John F., New Bedford, and A. W. Taber, Taunton, Mass. Machine for making twist-drills	275,791	Apr. 10	1203	330	23	1439
Straus, Jacob, St. Louis, Mo. Gig or harness saddle	270,505	Jan. 9	823	240	23	170
Strauss, Henry S., assignor to Heilner & Strauss, New York, N. Y. Corset	271,377	Jan. 30	1926	557	32	387
Strauss, Jonas. (See Sperling, Isidor, assignor.)						
Strauss, Leopold, *et al.* (See Gaynor, Thomas F., assignor.)						
Strauss, William, *et al.*, executors. (See Reckendorfer, Joseph.)						
Straw, Alonzo W., Milwaukee, Wis. Fabric for lining garments, &c	271,539	Jan. 30	2132	613	23	424
Straw, Henry, Guilford, Me. Snap-hook	275,537	Apr. 10	879	237	23	1384
Strawn, Halbert J. (See Selby, James H., assignor.)						
Strayer, Ambrose E. (See Groff and Strayer.)						
Strayer, Eber C. and V., Calmar, Iowa. Elevated reservoir, warming-oven, and shelf for stoves	279,456	June 12	1059	293	23	2311
Strayer, Valentine. (See Strayer, Eber C. and V.)						
Streat, Thomas, Richmond, Va. Cigar-maker's implement	290,811	Dec. 25	1838	509	25	1232
Streeper, Albert W., Fairbury, Ill. Back-rest	271,944	Feb. 6	434	119	23	517
Street, Robert R., Chicago, Ill. Package for butter or similar substances	276,199	Apr. 24	1708	472	23	1543
Street, Samuel M., Dalton, Ga. Metallic sole-protector	281,209	July 10	1020	297	24	198
Streisguth, Marie, and E. Schnitzler, Philadelphia, Pa. Bandelore toy	279,888	June 19	1568	439	23	2406
Strickland, Benjamin F. (See Moore, Myron E., assignor.)						
Strickle, Jacob W., and H. W. Manning, Huntsville, Ala. Automatic locomotive-whistle attachment	290,718	Dec. 25	1717	473 474	25	1211
Strickler, Frank B., assignor of two-thirds to P. G. Strickler and L. E. Miles, Janesville, Wis. Hay elevator and carrier	279,889	June 19	1569	439	23	2406
Strickler, Peter G., *et al.* (See Strickler, Frank B., assignor.)						
Strieby, F. H. (See Shipherd, William C., assignor.)						
Strieby, Frank H. (See Bolton, Strieby, and Rankin.)						
Stringer, Joseph A. (See Dimock, Henry S., assignor.)						
Strobel, Charles, Philadelphia, Pa. Anchor shuttle-box motion for looms	290,138	Dec. 11	945	268	25	1062
Strobel, Charles L., Pittsburg, Pa. Manufacture of eye-bars	277,373	May 8	1064	287	23	1816
Strobel, Frederick. (See Huber and Strobel.)						
Strobridge, Nelson W. (See Knapp, John A., assignor.)						
Stroh, Abraham, Manch Chunk, Pa. Car-spring	270,349	Jan. 9	623	184	23	131
Strohm, Samuel D. (See Crandell, William C., Jr., assignor.)						
Strohm, Samuel D., Philadelphia, Pa. Electrical conductor	277,374	May 8	1066	287	23	1816
Strohm, Samuel D., Philadelphia, Pa. Electrical cable	289,164	Nov. 27	1712	477	25	830
Strohm, Samuel D., Philadelphia, Pa. Electrical cable	289,165	Nov. 27	1714	477	25	831
Strohm, Samuel D., Philadelphia, Pa. Electrical cable	289,166	Nov. 27	1715	478	25	831
Strohm, Samuel D., assignor of one-third to J. Elton, Philadelphia, Pa. Metallic circuit for electrical currents	272,792	Feb. 20	1523	429	23	722
Strohm, Samuel D., assignor of one-third to H. Snyder, Philadelphia, Pa. Electrical conductor	278,289	May 22	2183	601	23	2021
Strong, Caroline M., Springfield, Mass. Combined bustle and hip-pad	286,562	Oct. 9	977	263	25	188
Strong, David A. (See Strong, Henry C., assignor.)						
Strong, Eli, Kalamazoo, Mich. Roller-mill	288,886	Nov. 20	1375	379	25	763
Strong, Elvira L. (See Blackman, Jared C., assignor.)						
Strong, Frederick S., assignor to Carver Cotton Gin Company, East Bridgewater, Mass. Shoe-holding jack	282,128	July 31	2278	625	24	418
Strong, Frederick S., and F. C. Mann, East Bridgewater, Mass. Cotton-seed linter	290,279	Dec. 18	1125	316	25	1101
Strong, George H., Chicago, Ill. Engraver's chuck	270,615	Jan. 16	973	281	23	907
Strong, George H., Chicago, Ill. Adjustable tool-holder	273,632	Mar. 6	502	135	23	920
Strong, George H., Chicago, Ill., assignor to L. W. Tatum, Cleveland, Ohio. Tool-sharpener	277,957	May 22	1760	480	23	1947
Strong, George H., and J. I. Carr, Chicago, Ill., assignors to L. W. Tatum, Cleveland, Ohio. Tool-holder for grindstones	277,958	May 22	1761	480	23	1948
Strong, George S., Philadelphia, Pa. Purifying water	273,777	Mar. 13	704	190	23	962
Strong, George S., Philadelphia, Pa. Purifying feed-water	273,778	Mar. 13	705	190	23	963
Strong, George W. and W. L., San Francisco, Cal. Amalgamator	278,059	May 22	1883	515	23	1970
Strong, Henry C., assignor of one-fourth to D. A. Strong, Chicago, Ill. Speaking-tube	288,887	Nov. 20	1376	379	25	763
Strong, Levi C., assignor of three-fourths to P. Kinnear and C. H. Turner, Albany, N. Y. Bench-plane	275,538	Apr. 10	879	238	23	1384
Strong, Levi C., assignor of three-fourths to P. Kinnear and C. H. Turner, Albany, N. Y. Bench-plane	275,539	Apr. 10	881	238	23	1384
Strong, Sutton, assignor of one-half to J. M. Vickroy, Harmony, Ind. Locking clothes-pin	273,633	Mar. 6	503	135	23	920
Strong, Walter L. (See Strong, George W. and W. L.)						
Strother, William A. and W. M., Lynchburg, Va. Lubricating compound for the plates of tobacco-presses	280,879	July 10	669	.....	24	125
Strother, William M. (See Strother, William A. and W. M.)						
Stroudley, William, Brighton, county of Sussex, and E. J. Houghton, Peckham, county of Surrey, England. Apparatus for electric lighting on railway-trains	288,888	Nov. 20	1378	379 380	25	763
Strouse, Isaac, New Haven, Conn. Nursing-corset	285,704	Sept. 25	1881	536	24	1253
Strouse, Isaac, New Haven, Conn., assignor to L. Schiele & Co., New York, N. Y. Corset	274,405	Mar. 20	1491	411	23	1107
Strowbridge, Clarence S., Cortland, N. Y. Child's carriage	285,935	Oct. 2	203	57	25	39
Strowger, William D., Steamburg, N. Y., assignor of one-half to S. H. Wallace, Garfield, Pa. Spring bed-bottom	271,945	Feb. 6	435	119	23	517
Strubbe, William G., Cincinnati, Ohio. Hand and saddle valise	271,540	Jan. 30	2132	614	23	494
Strugnell, James H., Toronto, Ontario, Canada. Hand-truck	271,152	Jan. 23	1631	470	23	329
Strype, William G., Wicklow, county of Wicklow, Ireland. Filter-press	274,406	Mar. 20	1492	411	23	1107
Stuart, Alexander, assignor to Springfield Engine and Thresher Company, Springfield, Ohio. Horse-power	277,375	May 8	1067	287	23	1816
Stuart, George H., *et al.* (See Reichling, Oscar E. H. N., assignor.)						
Stuart, James. (See Kelley, Austin, assignor.)						
Stuart, John, Traer, Iowa. Evaporating apparatus	289,785	Dec. 4	511	141	25	975
Stuart, John E., Newark, N. J. Corner-fastening for frames	277,076	May 8	718	186	23	1754
Stuart, Joseph H., South Paris, Me. Clothes-reel	277,171	May 8	839	221	23	1775
Stuart, Sinclair, *et al.* (See Wass, Dyson D., assignor.)						
Stuart, Robert J., assignor to Sedgwick & Stuart Manufacturing Company, Poughkeepsie, N. Y. Sheet-paper-feeding machine	282,014	July 24	2107	578	24	385

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Stuart, William F., assignor of one-half to C. E. J. Lang, Cleveland, Ohio. Carriage-top prop	278,060	May 22	1884	515	23	1970
Stubbe, John, Pittsburg, assignor to T. B. Kerr, Allegheny city, Pa. Wire fence	287,337	Oct. 23	1970	538	25	377
Stubbendorff, Hermann. (See Seery, Thomas F., assignor.)						
Stubbings, Wilson H. (See Blood, Edwin J., assignor.)						
Stuckey, William H., Covington, Ky. Fire-escape	277,376	May 8	1068	287	23	1816
Stuckle, Wilhelm, Worms, Hessen, Germany. Folding slate	279,457	June 12	1060	293	23	2312
Studer, George. (See Peck, Wells M., assignor.)						
Stuebner, Gustavus L., Long Island City, N. Y. Lock for self-dumping coal-tubs	289,940	Dec. 11	703	197	25	1017
Stumpf, Casper V., New York, N. Y. Sofa-bedstead	276,501	Apr. 24	2092	581	23	1609
Stumpff, John. (See Contancin, Scott, and Stumpff.)						
Sturdy, Frederick E., assignor to J. F. Sturdy & Sons, Attleborough, Mass. Chain-bar	281,646	July 17	1631	446	24	297
Sturdy & Sons, J. F. (See Sturdy, Frederick E., assignor.)						
Sturgeon, Thomas, Newlay Grove, Horsforth, near Leeds, county of York, assignor to Galwey & Bainbridge, Warrington, England. Machinery for compressing air	275,959	Apr. 17	1409	389	23	1484
Sturgin, Thomas, Fairview township, Mercer county, Pa. Gate	279,039	June 5	523	142	23	2212
Sturgis, John H., *et al.* (See Bacon, Charles H., assignor.)						
Stürmer, August, Elberfeld, Prussia, assignor of two-thirds to E. Frohn, Remscheid, and A. Brinck, Berlin, Germany. Method of and apparatus for making anatomical lasts	290,652	Dec. 18	1618	445	25	1186
Sturtevant, Albert P., Norwich, Conn. Fire-escape	276,730	May 1	262	67	23	1669
Sturtevant, Thomas L., Framingham, Mass. Paper cartridge-case	270,996	Jan. 23	1452	418	23	299
Sturtevant, Thomas L., Framingham, Mass. Hydraulic propeller	274,839	Mar. 27	2039	568	23	1209
Stutz, Louis. (See Pfauntz, Charles, assignor.)						
Stutz, Sebastian, Allegheny, Pa. Conveyer	289,466	Dec. 4	109	32	25	906
Stutzman, David, Ligonier, Ind. Fruit-drier	284,922	Sept. 11	933	262	24	1070
Styer, Charles. (See Cloud, William H., assignor.)						
Styles, Samuel D., New York, N. Y. Calendar	289,167	Nov. 27	1716	479	25	831
Sudheim, Samuel. (See Eimecke, Gustav O., and W., assignors.)						
Suetterle, John W. (See Bowen and Suetterle.)						
Suit, Samuel T., Suitland, Md. Telegraph-pole	289,320	Nov. 27	1899	529	25	866
Sulgrove, Joseph B., assignor to M. L. Sulgrove, Indianapolis, Ind. Harness-saddle	285,177	Sept. 18	1260	354	24	1134
Sulgrove, Mary L. (See Sulgrove, Joseph B., assignor.)						
Sullings, Hervey, Kalamazoo, Mich. Water-feeder for steam-boilers	279,458	June 12	1061	294	23	2312
Sullings, Hervey, Kalamazoo, Mich. Valve	279,459	June 12	1062	294	23	2312
Sullliot, Hippolyte S., and H. David, Paris, France. Rendering organic substances incombustible	271,995	Feb. 6	507	.....	23	528
Sullivan, Albert M. (See Pyle, George C., assignor.)						
Sullivan, Daniel, *et al.* (See Mac Mahon, Michael, assignor.)						
Sullivan, Daniel, Lincoln, R. I. Safety attachment for boilers	275,091	Apr. 3	277	76	23	1274
Sullivan, Edward, and R. Tobin, Chicago, Ill. Commode	289,168	Nov. 27	1717	479	25	831
Sullivan, George H., Brunswick, Ga. Baling-press	271,153	Jan. 23	1632	470	23	329
Sullivan, John F., assignor to himself and J. Connolly, Brooklyn, N. Y. Ferrule for pipe-joints	278,061	May 22	1885	516	23	1970
Sullivan, John J., Brooklyn, N. Y. Nail-feeder and nailing-machine	289,360	Nov. 27	1949	541 542	25	875
Sullivan, John J., Ipswich, and H. D. Baker, Lynn, Mass.; said Baker assignor to said Sullivan. Button-hole sewing-machine	271,666	Feb. 6	95	26	23	457
Sullivan, John J., Ipswich, and H. D. Baker, Lynn, Mass.; said Baker assignor to said Sullivan. Button-hole sewing-machine	279,890	June 19	1570	440	23	2407
Sullivan, John L., Grenada, Miss. Fence	271,665	Feb. 6	95	25	23	456
Sullivan, Josiah, *et al.* (See Pfaudler, John M., assignor.) (Reissue.)						
Sullivan, Michael E., assignor to P. H. Coffin, New Bedford, Mass. Ring-spinning frame	278,197	May 22	2061	568	23	2001
Sullivan, Mortimer, Brooklyn, N. Y. Electric lock	277,628	May 15	1376	371	23	1874
Salt, Alfred. (See Repass, William H., assignor.)						
Summers, De Witt C., Summer's Mills, Tex. Device for packing cotton, &c	280,333	June 26	2115	593	23	2508
Summers, Edgar. (See Schmachtenberger, Ottomer, assignor.)						
Sumner, Dwight C., Worcester, Mass. Cloth-shearing machine	282,401	July 31	2615	718	24	477
Sumner, Dwight C., Worcester, Mass. Cloth-shearing machine	282,402	July 31	2616	719	24	477
Sumner, Herbert. (See Ashbury, Sumner, Lees, and Sanderson.)						
Sumner, Herbert, Manchester, county of Lancaster, England, assignor of three-fourths to T. Ashbury, W. Lees, and R. W. B. Sanderson. Gas-motor engine	278,198	May 22	2062	568 569	23	2001
Sumner, Joshua, Colorado Springs, Colo. Screen for protecting the eyes of horses	287,885	Nov. 6	118	35	25	528
Sunderland, Lee W., assignor of one-half to W. Lehr, Bremen, Ind. Copy-holder for printers	283,039	Aug. 14	675	190	24	627
Sunderman, John H., Quincy, Ill. Top	282,129	July 31	2279	625	24	418
Sunderman, John H., Quincy, Ill. Top	287,591	Oct. 30	2305	624	25	448
Superior Drive Screw Company. (See Davis and Blake, assignors.)						
Suplee, Hannah G., New York, N. Y. Sewing-machine needle	277,629	May 15	1378	372	23	1874
Suplee, Henry H., Philadelphia, Pa. Steam-boiler	271,541	Jan. 30	2134	614	23	424
Supple, William F. (See Wray, Simon T., assignor.)						
Surprenant, Joseph W., and J. E. Ferguson, Astoria, Oreg. Hydraulic pile-driver	283,300	Aug. 14	991	277	24	685
Surratt, M. (See Garrett, Jackson B., assignor.)						
Susman, Edward, Pittsburg, Pa. Umbrella drip-cup	288,889	Nov. 20	1381	381	25	764
Sutch, John B., and W. C. McElheny, Pittsburg, Pa. Roller-die	274,840	Mar. 27	2039	568	23	1209
Sutcliffe, Henry and W., Halifax, county of York, England, assignors to H. C. Meyer & Co., New York, N. Y. Water-closet tank or cistern	277,172	May 8	839	221	23	1775
Sutcliffe, Lichfield W., Birmingham, county of Warwick, assignor of one-half to W. E. Parkes, Soho Hill, Handsworth, county of Stafford, England. Self-feeding and smoke-consuming furnace	274,990	Apr. 3	135	38	23	1249
Sutcliffe, Wright. (See Sutcliffe, Henry and W.)						
Suter, Frederick, Suhr, assignor to Wetter Brothers, St. Gall, Switzerland. Producing open-work fabrics	280,094	June 26	1828	514	23	2458
Sutherland, Daniel A., Lynn, Mass. Welt-guide for sewing-machines	282,798	Aug. 7	388	109 110	24	568
Sutter, Joseph. (See Mayer and Sutter.)						
Sutterley, Gilbert T., Philadelphia, Pa. Sheet-metal cuspidor	275,285	Apr. 3	512	141	23	1313
Suttie, William J., New York, N. Y. Nose-piece for eyeglasses	284,257	Sept. 4	126	35	24	926
Sutton, Benjamin F., New York, N.Y., assignor to D. C. Perkins, Providence, R. I. Atomizer	281,942	July 24	2022	553	24	371
Sutton, Eugene S., Menomonee, Wis. Sand-band	283,301	Aug. 14	992	277	24	685
Sutton, John, Islip, N. Y. Screening and sizing machine	279,286	June 12	832	231	23	2276
Sutton, John W., New York, N. Y. Apparatus for removing the water-hair from seal and other skins	276,923	May 1	497	130	23	1712
Svendsen, Christian, Clinton, Iowa. Roof	270,859	Jan. 16	1270	366	23	263
Svoboda, Frank, Kewaunee, Wis. Neck-yoke attachment	282,471	July 31	2707	744	24	492
Swab, Joseph F., Cedar Rapids, Iowa. Hauling-can	282,585	Aug. 7	134	40	24	524

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Swain, Alva H., Winchester, Ind. Post-hole auger	269,895	Jan. 2	86	26	23	19
Swain, Charles M. (See Bond, Joseph, Jr., assignor.)						
Swain, Hadwen, Denver, Colo. Newspaper wrapping and addressing machine	274,529	Mar. 27	1680	466, 467	23	1145
Swainson, Per. (See Lindell, Theodore, assignor.)						
Swallow, Isaac W., Kingston, Pa. Grate-bar for locomotives	288,599	Nov. 13	1021	280	25	695
Swan, Alfred, Gateshead, county of Durham, England. Molding bulbs for incandescent electric lamps, &c	275,730	Apr. 10	1121	307	23	1426
Swan, Alfred, Gateshead, county of Durham, England. Glass bulb or globe for incandescent electric lamps	276,924	May 1	500	.....	23	1713
Swan, Alfred, Gateshead, county of Durham, England. Roll for flattening the ends of terminal wires	276,982	May 1	583	153	23	1726
Swan, Alfred, Gateshead, county of Durham, England. Manufacture of incandescent lamps.	282,472	July 31	2708	745	24	492
Swan, Caleb H., Worcester, Mass. Trimming and burnishing machine	276,925	May 1	501	130, 131	23	1713
Swan, Ernest E., Texas, Mich. Plow-wheel	273,779	Mar. 13	706	190	23	963
Swan, Frederick A. (See Bosworth and Swan.)						
Swan, Fredrick A., and C. B. Bosworth, Boston, Mass. Cut-out for dangerous electric currents	274,150	Mar. 20	1163	321	23	1049
Swan, Frederick A., and C. B. Bosworth, Boston, Mass. Electric cut-out	274,151	Mar. 20	1164	321	23	1049
Swan, George E., Beaver Dam, Wis. Spring for the soles and heels of boots and shoes	272,172	Feb. 13	727	201	23	578
Swan, George E., Beaver Dam, Wis. Spring-heel for boots and shoes	288,274	Nov. 13	606	165	25	621
Swan, James, Seymour, Conn. Auger	279,204	June 12	740	203	23	2260
Swan, James, Seymour, Conn. Auger-bit	283,040	Aug. 14	676	190	24	627
Swan, James, Seymour, Conn. Auger	285,440	Sept. 25	1571	442	24	1195
Swan, James, Seymour, Conn. Auger-bit	290,812	Dec. 25	1840	509	25	1232
Swan, Peleg, Litchfield, Mich. Animal-poke	287,190	Oct. 23	1785	490	25	344
Swaney, David A., assignor to N. West, Pittsburg, Pa. Putting up blankets	287,394	Oct. 23	2041	555	25	388
Swank, David W., Anderson, Ind. Saw-guard	273,404	Mar. 6	213	57	23	870
Swank, Marquis D. L. (See Ethell and Swank.)						
Swank, Marquis D. L., and J. T. Thornley, Anderson, Ind. Stop-valve	280,413	July 3	91	24	24	19
Swank, Marquis D. L., and J. T. Thornley, Anderson, Ind. Piston-rod packing	285,441	Sept. 25	1573	442	24	1195
Swanson, Nels, assignor of two-thirds to J. V. Lewis and J. T. Richards, Chicago, Ill. Knockdown coffin	284,986	Sept. 11	1010	284	24	1085
Swanton, John G., New York, N. Y., assignor of one-half to J. D. O'Connor, Stamford, Conn. Counter for pool	269,896	Jan. 2	87	26	23	19
Swart, Martin E., Denver, Colo. Car-coupling	290,656	Dec. 18	1624	446	25	1187
Swartwout, Lorenzo B., Three Rivers, Mich. Water-wheel	289,169	Nov. 27	1718	479	25	831
Swartwout, Willard B., Three Rivers, Mich. Lumber-trimming machine	279,040	June 5	593	143	23	2212
Swarfout, William H., Salineville, assignor of three-fourths to C. A. Gregg, Moore's Salt Works, and W. Dallas, Salineville, Ohio. Motor	272,349	Feb. 13	942	261	23	615
Swartz, Edwin T. (See Tubbs and Swartz.)						
Swartz, George A., Orangeville, Ill. Fire-escape ladder	283,530	Aug. 21	1279	358	24	743
Swartz, W. R., *et al.* (See Harper, John, assignor.)						
Swayze, Stephen J., and J. C. Lane, Sag Harbor, N. Y. Railway time-signal	286,156	Oct. 2	459	125	25	85
Sweanor, George, assignor of one-half to E. W. Benthner, Montreal, Quebec, Canada. Ammonia-engine	284,987	Sept. 11	1012	284, 285	24	1085
Sweatt, Atherton, Webster, N. H. Butter-box	286,157	Oct. 2	461	125	25	85
Sweatt, Leroy A., assignor of one-half to J. Fatjo, Santa Clara, Cal. Wheeled scraper	276,303	Apr. 24	1836	511	23	1564
Sweeney, Andrew J., Pana, Ill. Gate	281,647	July 17	1632	446	24	297
Sweeney, George W., assignor to J. A. Hamilton for himself and as trustee, New York, N. Y. Car-axle box	279,506	June 12	1122	310, 311	23	2330
Sweeney, John M., Wheeling, W. Va. Cut-off valve for steam-engines	274,530	Mar. 27	1662	467	23	1146
Sweeney, Morgan J., assignor to J. and E. McLoughlin, New York, N. Y. Movable outline drawing and design	285,442	Sept. 25	1574	443	24	1195
Sweeney, Oliver, Philadelphia, Pa. Reservoir-lamp	277,808	May 15	1581	432	23	1911
Sweeney, Peter, assignor of one-third to L. Morgan, New York, N. Y. Car-axle box	270,262	Jan. 9	515	151	23	111
Sweeney, Peter, assignor to J. A. Hamilton, trustee, New York, N. Y. Car-axle box	291,006	Dec. 25	2092	576, 577	25	1273
Sweeny, James A., Washington, D. C. Coffee-roaster	278,199	May 22	2064	569	23	2001
Sweet, Alonzo. (See Slater, Warren G., assignor.)						
Sweet, Charles R., Portsmouth, Ohio. Road-engine	284,147	Aug. 28	2061	571	24	894
Sweet & Clark Manufacturing Company. (See Sweet, Miles, assignor.)						
Sweet, D. Fred, Hastings, Mich. Electric clock	272,100	Feb. 13	649	176, 177	23	564
Sweet, D. Fred, Hastings, Mich. Electric clock	273,634	Mar. 6	504	135, 136	23	920
Sweet, D. Fred, Hastings, Mich. Primary electric clock	284,578	Sept. 4	513	143	24	990
Sweet, Daniel E., Chicago, Ill. Device for fastening envelopes, &c	279,991	June 26	1699	477	23	2435
Sweet, George N., assignor to S. R. Harris and W. H. Cowdery, Ashtabula, Ohio. Rake-straightening device	277,077	May 8	719	187	23	1754
Sweet, John E., Syracuse, N. Y. Valve-gear	275,871	Apr. 17	1314	362	23	1466
Sweet, Joseph L., *et al.* (See Becker, Franck, assignor.)						
Sweet, Joseph L., *et al.* (See White, Jarvis N. B., assignor.)						
Sweet, Lebbeus, Wellsville, assignor of two-thirds to J. Wyckoff and R. T. Tuttle, Perry, N. Y. Harvester	277,078	May 8	720	187	23	1755
Sweet, Miles, assignor to Sweet & Clark Manufacturing Company, Troy, N. Y. Wood-boring machine	289,170	Nov. 27	1720	479	25	832
Sweet, Orange M., Forestville, N. Y. Step-ladder	273,188	Feb. 27	2024	569	23	817
Sweet, Parker H., Jr., Washington, D. C. Machine for attaching buttons	274,407	Mar. 20	1493	411	23	1107
Sweet, Parker H., Jr., Washington, D. C. Button-attaching instrument	282,130	July 31	2280	626	24	419
Sweet, Parker H., Jr., Washington, D. C., assignor to Heaton Button Fastener Company, Providence, R. I. Button-fastening	273,405	Mar. 6	214	58	23	870
Sweet, Parker H., Jr., Washington, D. C., assignor to Heaton Button Fastener Company, Providence, R. I. Button-setting instrument	274,841	Mar. 27	2040	568	23	1209
Sweet, Parker H., Jr., Washington, D. C., assignor to Heaton Button Fastener Company, Providence, R. I. Button-fastener	275,435	Apr. 10	752	200	23	1363
Sweet, Parker H., Jr., Washington, D. C., assignor to Heaton Button Fastener Company, Providence, R. I. Instrument for attaching buttons to fabrics	288,135	Nov. 6	423	119	25	582
Sweet, Parker H., Jr., Washington, D. C., assignor to Heaton Button Fastener Company, Providence, R. I. Instrument for attaching buttons	288,136	Nov. 6	424	120	25	582
Sweet, Parker H., Jr., Washington, D. C., assignor to Heaton Button Fastener Company, Providence, R. I. Button-fastener	290,139	Dec. 11	948	268	25	1062
Sweet, Parker H., Jr., Washington, D. C., assignor to W. A. Boland, Lynn, Mass. Machine for attaching buttons to shoes. (Reissue)	10,373	Aug. 21	1534	433	24	792

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Sweet, Thomas A., Cambria, Cal. Wheel-harrow	279,613	June 19	1247	346	23	2350
Sweet, William F., Elmira, assignor of one-half to A. L. Bartholomew, Seely Creek, N. Y. Vehicle-spring	289,361	Nov. 27	1952	542, 543	25	876
Sweeten, Wilbert L., Camden, N. J. Combined bat and ball	286,570	Oct. 9	987	266	25	190
Sweetland, Alvah, Syracuse, N. Y. Curtain-fixture	274,049	Mar. 13	1021	280	23	1017
Sweetland, Frank, Edwardsburg, Mich. Car-coupling link	278,626	May 29	2624	716	23	2107
Sweetland, Jerome B., Pontiac, Mich. Ore-pulverizer	271,285	Jan. 30	1803	523	23	365
Sweetser, Edward S., Wakefield, Mass. Stove-pipe thimble	280,880	July 10	669	189	24	125
Sweetser, Horatio, assignor to H. Sweetser, Jr., New York, N. Y. Paper-hanger's roller	290,813	Dec. 25	1840	509	25	1232
Sweitzer, Harry W., Rural Valley, Pa. Can-soldering machine	281,648	July 17	1633	446	24	297
Swem, John B., Braddock, Pa. Duplex writing-table	277,959	May 22	1762	480	23	1948
Swenson, Jonas, Aurora, Nebr. Churn	283,302	Aug. 14	993	278	24	685
Swenson, Lorens, Cresco, Iowa. Extension-ladder	284,683	Sept. 11	645	182	24	1019
Swenson, Nils O., Lead City, Dak. Ter. Tuyere for forges	283,435	Aug. 21	1173	329	24	723
Swenson, Nils O., Chicago, Ill. Tuyere	285,367	Sept 18	1476	416	24	1173
Swett, Edward E., Biddeford, Me. Portable ladder	280,685	July 3	417	117	24	74
Swett, Edward E., Biddeford, Me. Apparatus for blowing fog-horns, &c	280,686	July 3	417	118	24	74
Swett, Sullivan C., and A. McCreary, Washington, D. C. Grappling device	269,971	Jan. 2	176	51	23	36
Swett, Sylvester G. (See Mendum and Swett.)						
Swift, Allen W., Elmira, N. Y. Lubricator	272,793	Feb. 20	1594	429	23	722
Swift, Allen W., Elmira, N. Y. Lubricator	283,931	Aug. 28	1767	499	24	844
Swift, Allen W., Elmira, N. Y. Lubricator	284,340	Sept. 4	220	62	24	942
Swift, Charles N., New York, N. Y. Tobacco-moistening pad	290,140	Dec. 11	949	268	25	1062
Swift, Charles N., New York, N. Y. Tobacco-moistening tray	290,141	Dec. 11	949	268	25	1062
Swift, D. Wheeler and H. D., Worcester, Mass. Protecting elevator-shafts and their hatchways	273,323	Mar. 6	104	31	23	852
Swift, Henry D. (See Swift, D. Wheeler and H. D.)						
Swift, Horace E., assignor to himself, C. Benson, and S. T. Willets, Providence, R. I. Bedstead-fastening	271,996	Feb. 6	508	136	23	598
Swift, Joseph H., Brooklyn, N. Y. Box-nailing machine	289,941	Dec. 11	704	198, 199	25	1017
Swift, Nathaniel D., Petrolia, Ontario, Canada. Table-tray	283,362	Aug. 14	1080	303	24	701
Swift, W. J., *et al.* (See Bushfield, Samuel B., assignor.)						
Swindell, Henry, Allegheny city, Pa. Reversing-valve for furnaces and device for operating the same	277,079	May 8	721	187, 188	23	1755
Swindell, William, Allegheny city, Pa. Coal-hopper	270,149	Jan. 2	381	110	23	77
Swindell, William, Allegheny city, Pa. Regenerator-furnace	282,586	Aug. 7	136	40, 41	24	594
Swindell, William, Pittsburg, Pa. Regenerative furnace	285,522	Sept. 25	1665	468, 469	24	1213
Swindells, George. (See Williamson and Swindells.)						
Swindells, John. (See Williamson and Swindells.)						
Swindler, William C., Belleville, Ind. Straw-stacking machine	277,080	May 8	723	189	23	1755
Swindler, William C., Belleville, Ind. Straw-stacking machine	282,799	Aug. 7	389	110	24	568
Swingle, Alfred, San Francisco, Cal. Machine for shelling peas	288,743	Nov. 20	1908	330	25	732
Swingle, George, 4th, Roseville, Ohio. Fence-post	275,286	Apr. 3	513	141	23	1314
Swink, Clinton H., Dublin, Pa. Wagon-jack	287,191	Oct. 23	1786	490	25	344
Swink, Irving H., Dublin, Pa. Culinary steamer	282,567	Aug. 7	137	41	24	594
Switter, Joseph, assignor of one-half to G. J. Wagner, Massillon, Ohio. Apparatus for feeding shavings to furnaces	286,344	Oct. 9	718	192	25	140
Switzer, William C., Comanche, Tex. Post-hole digger	274,531	Mar. 27	1683	467	23	1146
Switzler, Lewis M., Columbia, Mo. Calendar	276,643	May 1	123	33	23	1648
Swoboda, Adolph, Cairo, Ill. Expansible barrel-cover	278,670	May 29	2677	733	23	2116
Swope, Francis M., assignor to Seymour Manufacturing Company, Seymour, Ind. Scythesnath fastening	283,932	Aug. 28	1768	500	24	845
Swope, Horace G. (See Rude and Swope.)						
Swope, Isaac, St. Louis, Mo. Barrel	285,320	Sept. 18	1417	400	24	1163
Sword, James B., Philadelphia, Pa. Device for wetting gummed papers	272,350	Feb. 13	943	262	23	615
Sykes, Charles P., Calabasas, Ariz. Ter. Combined railway and cattle water-supply	289,040	Nov. 27	1570	433	25	804
Sykes, Richard. (See Macvay and Sykes.)						
Sykes, Sylvester W., Passaic, N. J. Sweep-strap connection for picker-sticks of looms	286,971	Oct. 16	1501	413	25	285
Sykes, Thomas B., assignor of one-half to W. M. Dight, Mercer, Pa. Wagon-tongue	272,794	Feb. 20	1525	429	23	722
Symonds, Clarence M., assignor to G. H. Tay & Co., San Francisco, Cal. Canister	277,630	May 15	1379	372	23	1674
Symonds, Daniel R. (See Deering and Symonds.)						
Taaffe, Francis X., Baltimore, Md., and C. H. Koyl, Cobourg, Ontario, Canada. Underground line	278,627	May 29	2625	717	23	2107
Taber, Albert W. (See Strange and Taber.)						
Taber, Franklin P., assignor of two-thirds to J. A. Cook and C. W. Conklin, Auburn, N. Y. Evaporating-pan	277,855	May 15	1637	446	23	1921
Taber, Freeman A., Boston, Mass. Lamp	278,373	May 29	2319	634	23	2053
Taber, Horace, Manistee, Mich. Clapboard-sawing machine	279,287	June 12	834	231	23	2276
Tabony, Joseph H., New Orleans, La. Fanning attachment for sewing-machines	271,542	Jan. 30	2135	614	23	494
Tabor, Clark A., assignor to himself and F. E. Tabor, Rockville, R. I. Stop-motion for railway-heads	288,137	Nov. 6	425	120	25	582
Tabor, Frank E. (See Tabor, Clark A., assignor.)						
Tabor, Harris, Allegheny, Pa. Governor	276,304	Apr. 24	1838	512	23	1565
Tabouët, Pierre C. E., Paris, France. Fire-extinguisher	286,502	Oct. 9	900	243	25	173
Tacy, Samuel H., New York, N. Y. Hood for electric lamps	277,377	May 8	1068	288	23	1816
Taddicken, Henry B., Muscatine, Iowa. Vessel for measuring ice-cream	283,165	Aug. 14	822	230	24	653
Taft, Albert H., Winchester, N. H. Wagon-jack	288,275	Nov. 13	606	166	25	621
Taft, George C., Worcester, Mass. Drilling-machine	288,510	Nov. 13	915	250	25	674
Taft, George W., Abington, Conn. Machine for making and repairing roads	276,093	Apr. 17	1573	433, 434	23	1511
Taft, Gustavus E., and H. F. Woodmancy, Whitinsville, Mass. Bearing for spinning-frame spindles	284,775	Sept. 11	762	212	24	1039
Taggart, Francis, Brooklyn, N. Y. Apparatus for disintegrating grain, &c	279,842	June 19	1510	422, 423	23	2396
Taggart, Francis, Brooklyn, N. Y. Apparatus for pulverizing grain, ores, &c	283,830	Aug. 28	1647	464	24	892
Tague, Francis M., and J. T. Power, Indianapolis, Ind. Cash-register	283,531	Aug. 21	1280	358	24	743
Tague, Sherman A. (See Cochran, John, Jr., assignor.)						
Tainter, Sumner, Washington, D. C. Electric conductor	289,725	Dec. 4	445	194, 195	25	964
Tait, Felix B., and J. Gross, Decatur, Ill. Combined check-rower and corn-planter	287,976	Nov. 6	234	66, 67	25	548
Tait, William J., Jersey City, N. J. Baluster	278,200	May 22	2067	570	23	2002
Tait, William J., Jersey City, N. J. Spiral fluting and molding machine	284,512	Sept. 4	432	123	24	977

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Talbot, Frank H., and F. Brown, Cleveland, Ohio. Bicycle-lantern	281,580	July 17	1547	424	24	283
Talbot, William. (See Ardrey, Robert, assignor.)						
Talbot, William R. (See Bailey and Talbot.)						
Talbott, Jesse L., and C. J. Hiter, Elizabethtown, Ky. Fruit-gatherer	287,977	Nov. 6	236	67	25	549
Talbott, John D., Barnesville, Ohio. Ironing-board	271,667	Feb. 6	97	26	23	457
Talcott, Albert L., assignor to F. Robbins, Boston, Mass. Combination pocket-case	286,650	Oct. 16	1095	295	25	215
Talcott, Walter O (See Budlong and Talcott.)						
Talcott, William A., *et al.* (See Whitney, Charles, assignor.)						
Taliaferro, Eilbeck H., Saltillo, Miss. Quilting-frame	289,171	Nov. 27	1720	480	25	832
Taliaferro, Sinclaire. (See Fowler, Joseph C., assignor.)						
Tallmadge, Henry C., Cincinnati, Ohio. Device for tightening banjo-heads	288,679	Nov. 20	1125	309	25	718
Tallman, Charles H., Bellaire, Ohio. Oil-can	285,705	Sept. 25	1882	536	24	1253
Tallman, David S., assignor of one-half to W. T. Hanford, Reno, Nev. Device for drawing out spokes from wheel-hubs	288,511	Nov. 13	916	250	25	675
Tallman, George F., Deposit, N. Y. Feather-renovator	272,795	Feb. 20	1526	430	23	723
Tallman, Ira E., Paterson, N. J. Calculating-machine	287,192	Oct. 23	1787	490 491	25	344
Tallman, John C., assignor to Warner Brothers, Bridgeport, Conn. Corset	279,041	June 5	525	143	23	2213
Tallman, S. S. & G. D. (See Ritchel, Charles F., assignor.)						
Tallman, Stephen P., Dunellen, N. J. Stock-car	274,991	Apr. 3	137	39	23	1949
Tallman, Stephen P., Dunellen, N. J. Draw-bar for railway-cars	280,414	July 3	99	25	24	19
Tallman, Stephen P., Dunellen, N. J. Stock-car	288,680	Nov. 20	1125	310	25	718
Talmage, George J. (See Scott and Talmage.)						
Talpey, Joseph A., Somerville, Mass. Sink	273,780	Mar. 13	707	191	23	963
Tams, James. (See Stein and Tams.)						
Tams, James, Chambersburg, N. J. Pottery-mold	285,321	Sept. 18	1418	401	24	1164
Tams, John, Longton, county of Stafford, England. Regulating the containing capacity of drinking-vessels, &c	289,467	Dec. 4	111	33	25	906
Tandler, Eduard, Grand Rapids, Mich. Steam-engine	278,062	May 22	1886	516	23	1970
Tandy, Thomas. (See Clarke, Charles, assignor.)						
Taneyhill, Francis M., Barnesville, Ohio. Car-axle lubricator	274,152	Mar. 20	1165	321	23	1049
Tanner, Alfred B., assignor to Sargent & Co., New Haven, Conn. Spring-hinge	271,946	Feb. 6	436	190	23	517
Tanner, John C., Huntington, W. Va., assignor to R. Dudgeon, New York, N. Y. Hydraulic jack	271,154	Jan. 23	1635	470	23	329
Tanner, William J., London, county of Middlesex, England. Apparatus for washing and separating gold and silver from their ores	285,523	Sept. 25	1666	469	24	1913
Tappeiner, John C., Bisbee, Ariz. Ter. Assay-furnace	272,599	Feb. 20	1283	357	23	679
Tapscott, Edmund, *et al.* (See Grundy, Arthur, assignor.)						
Tarbell, William H., Lansingburg, N. Y. Vehicle-spring	274,098	Mar. 13	1090	300	23	1029
Tarbox, James E., Lynn, Mass. Register for wheel-carriages	286,743	Oct. 16	1214	327	25	235
Tarbox, James E., assignor of one-half to S. M. Porter, Lynn, Mass. Heel-burnishing machine	270,150	Jan. 2	382	111	23	78
Tarbox, Kate L., New York, N. Y. Embroidery	279,042	June 5	525	143	23	2213
Tarbox, Myron H. (See More and Tarbox.)						
Tarr, Charles M., Gloucester, Mass. Pointer for blackboards and maps	283,041	Aug. 14	677	190	24	627
Tarr, Gardiner L., assignor to Hopedale Machine Company, Hopedale, Mass. Creel for spooling and warping machines	287,338	Oct. 23	1971	538	25	377
Tarr, George W., New York, N. Y. Derrick	275,540	Apr. 10	883	239	23	1385
Tarr, Joseph S., Cleveland, Ohio. Combined corn-sheller, feed-grinder, and horse-power	272,495	Feb. 20	1151	323	23	656
Tarver, Fleming E., Hephzibah, Ga. Cotton-planter	283,682	Aug. 21	1460	411	24	778
Tasker, Joseph R. (See Feldmann, Hermann B., assignor.)						
Tasker, Stephen P. M. (See Feldmann, Hermann B., assignor.)						
Tasker, Stephen P. M. (See Murphy, Albert L., assignor.)						
Tasker, Stephen P. M. (See Rogers, T. Mellon, assignor.)						
Tasker, Stephen P. M., Philadelphia, Pa. Pulverizing-machine	274,050	Mar. 13	1022	280	23	1017
Tasker, Stephen P. M., Philadelphia, Pa. Hopper for pulverizing-machines	274,051	Mar. 13	1026	281	23	1018
Tate & Co. (See Sleeper, Charles F., assignor.)						
Tate, Humphrey D. (See Smith, Victor, assignor.)						
Tate, William, and W. T. Johnson, Winston, N. C. Grain and seed separator and grader	290,944	Dec. 25	2002	552	25	1260
Tateum, Thomas E., Worcester, Mass. Door-securer	280,261	June 26	2021	568	23	2492
Tatham, Benjamin, New York, N. Y. Machine for marking linear measurements upon fabrics	273,189	Feb. 27	2025	570	23	817
Tatham, Roger, Rochdale, county of Lancaster, England. Coiler for carding-machines, &c.	271,155	Jan. 23	1635	471	23	329
Tatham, William, Philadelphia, Pa. Protecting plumbago crucibles	281,159	July 10	1009	.....	24	185
Tatum, Charles A., *et al.* (See Leake, Lewis C., assignor.)						
Tatum, Charles A. (See Weinhagen, Henry, assignor.)						
Tatum & Co., Samuel C. (See Tatum, Samuel C., Jr., assignor.)						
Tatum, John W., Chester, Pa. Paper box	285,706	Sept. 25	1883	536	24	1254
Tatum, Lawrence W. (See Carr, John I., assignor.)						
Tatum, Lawrence W. (See Strong, George H., assignor.)						
Tatum, Lawrence W. (See Strong and Carr, assignors.)						
Tatum, Samuel C., Jr., assignor to S. C. Tatum & Co., Cincinnati, Ohio. Sewing-machine treadle	276,502	Apr. 24	2093	581	23	1609
Tatum, Samuel C., assignor to S. C. Tatum & Co., Cincinnati, Ohio. Pattern and flask for producing castings	282,403	July 31	2617	719	24	477
Tauber, Johann C., Plain City, Ohio. Machinery for converting motion	275,436	Apr. 10	753	201	23	1363
Taunton Iron Works Company. (See White, Leonard A., assignor.)						
Tavener, Robert W., West Bay City, Mich., assignor of one-half to D. B. Hyde, Boston, Mass. Extension-table	278,830	June 5	909	62	23	2159
Tavener, Robert W., assignor of one-half to A. D. Catlin, West Bay City, Mich. Nailing-machine	290,493	Dec. 18	1414	390	25	1151
Tavshanjian, Ohannes S., Constantinople, Turkey. Smoke and spark conveyer	281,581	July 17	1548	424	24	284
Tay & Co., George H. (See Symonds, Clarence M., assignor.)						
Tay, Hans, Arcola, Ill. Hame-fastener	281,582	July 17	1551	424	24	284
Taylor, Andrew W., Salisbury, Mo. Hay-rake	281,943	July 24	2023	554	24	372
Taylor, Andrew W., assignor of one-half to R. Winfree, Salisbury, Mo. Hay-stacker	274,842	Mar. 27	2041	568	23	1210
Taylor, Andrew W., assignor of one-half to R. Winfree, Salisbury, Mo. Corn-harvester	274,843	Mar. 27	2042	569	23	1210
Taylor, Benjamin, Morrillton, Ark. Car-coupling	289,172	Nov. 27	1721	480	25	832
Taylor Brothers. (See Sprague, Austin V. M., assignor.)						
Taylor, Bruce, assignor of one-half to F. W. Miller, Wooster, Ohio. Jointed brace for carriage-tops	281,944	July 24	2024	554	24	372
Taylor, Cebra L., Greenville, Conn. Fastener for knob-spindles	275,287	Apr. 3	514	141	23	1314
Taylor, Charles, assignor of two-thirds to J. and E. James, Montreal, Quebec, Canada. Plastic compound for roofing	270,151	Jan. 2	383	.....	23	78

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
r, Charles A. (See Buckins and Taylor.)						
r, Charles F., Chico, Cal. Balanced valve	283,532	Aug. 21	1281	358	24	743
r, Charles F., Springfield, Mass. Process of and apparatus for treating rags for paper-k	286,503	Oct. 9	901	243, 244	25	174
r, Charles F., Springfield, Mass. Method of and apparatus for treating rags for pa-stock	287,462	Oct. 30	2154	585	25	418
r, Charles H., Woburn, Mass. Machine for shaving leather	277,631	May 15	1379	372	23	1874
r, Charles W., Portsmouth, N. H. Cooking-utensil	274,408	Mar. 20	1494	412	23	1107
r, Chester R., Jackson, Mich. Running-gear	278,290	May 22	2184	601	23	2021
r Company, J. K. (See Taylor, James K., assignor.)						
r, Daniel B. (See Smart, George, assignor.)						
r, Daniel B., St. Louis, Mo. Ventilator	282,800	Aug. 7	390	110	24	568
r, Edgar H., Ash Valley, Kans. Stock-gate for railways	279,672	June 19	1325	367	23	2363
r, Edmund B., College Hill, Mass. Machine for washing hats in the process of manufacture	278,467	May 29	2434	664	23	2074
, Edward H. (See McConnell and Taylor.)						
r, Edward J., Alaska, W. Va., and C. L. Pagenhart, Boyceville, Va.; said Pagenhart gnor to said Taylor. Road-engine	270,999	Jan. 23	1453	419	23	299
r, Elmore W., Detroit, Mich, Advertising device, card and picture holder	274,052	Mar. 13	1027	281	23	1018
, Enoch L., Philadelphia, Pa. Railway-tie	286,651	Oct. 16	1096	295	25	215
r, Francis C., Danbury, Conn., assignor to W. J. Kelley, Philadelphia, Pa. Cartridge wiper	270,616	Jan. 16	974	281	23	207
, Frederick. (See Belcher, Walter A., assignor.)						
, Frederick. (See Bisbee and Dudley, assignors.)						
, Frederick, *et al.* (See Ladd, Austin S., assignor.)						
, George. (See Byers and Taylor.)						
, George W., and A. R. Cox, Belton, S. C. Fire-extinguisher	275,731	Apr. 10	1122	307	23	1426
, Harrison H. (See Hubel and Taylor.) (Reissue.)						
, Harrison H., Detroit, Mich., assignor of two-thirds to G. G. Clarkson, Rochester, .. and F. M. Clarkson, Detroit, Mich. Metal-screw machine	274,153	Mar. 20	1166	321, 322	23	1049
, Harrison H., assignor to F. A. Hubel, Detroit, Mich. Capsule-machine	275,092	Apr. 3	279	76	23	1274
, Harrison H., assignor to F. A. Hubel, Detroit, Mich. Capsule-machine	276,094	Apr. 17	1576	434, 435	23	1512
, Henry, and J. F. C. Elfers, Brooklyn, assignors of one-third to C. Cornehlsen, New c, N. Y. Feather duster	280,531	July 3	935	63	24	42
, Hiram W., Ramsey, Ill. Gate	285,524	Sept. 25	1668	470	24	1213
, Horace, Canandaigua, N. Y. Calendar	290,280	Dec. 18	1126	317	25	1101
, I. M., *et al.* (See Farwell, Willard B., assignor.)						
, Jackson, Newberry, S. C. Side-bar spring	286,089	Oct. 2	380	105	25	69
, James. (See Reed, Hudson H., assignor.)						
, James K., Boston, Mass., assignor to J. K. Taylor Company, Concord, N. H. Spark-or for locomotives	281,160	July 10	1010	282	24	185
, James K., Boston, Mass., assignor to J. K. Taylor Company, Concord, N. H. Ven-or for locomotive cinder-chambers	282,404	July 31	2618	719	24	477
, James L., Ishpeming, Mich. Pipe-wrench	287,193	Oct. 23	1789	491	25	344
, James S. (See Wood and Taylor.)						
, James S., Danbury, Conn. Scalding napped hats and sizing or felting hat and other ics	277,081	May 8	724	189	23	1756
, James S., Danbury, Conn. Hat scalding and felting machine	279,843	June 19	1514	424	23	2396
, James S., Danbury, Conn. Hat sizing or felting machine	280,095	June 26	1828	514	23	2458
, John. (See Lowcock and Taylor.)						
, John. (See Van Wie and Taylor.)						
, John, Birmingham, county of Warwick, England. Device for holding marking-chalk	272,986	Feb. 27	1779	498	23	772
, John, Halifax, Nova Scotia, Canada. Apparatus for purifying foul ammoniacal irs	275,541	Apr. 10	884	239	23	1385
, Lemuel and M., Jordan, Wis. Wire fence	278,291	May 22	2185	601	23	2021
, Levi, Osceola, Iowa. Gas-machine	286,865	Oct. 16	1364	374	25	262
, Miner. (See Taylor, Lemuel and M.)						
, Robert E. and W. A., Brownsville, Tenn. Fence	276,095	Apr. 17	1578	435	23	1513
, Robert H., Tonganoxie, Kans. Corn-harvester	280,687	July 3	419	118	24	75
, Rufus M. (See Starbuck and Taylor.)						
, Serell, Chicago, Ill. Quarter-boot for horses	275,872	Apr. 17	1315	363	23	1467
, Stewart, Hyde Park, Ill. Skid	288,276	Nov. 13	607	166	25	621
, T. Chalkley, Philadelphia, Pa. Packing caustic alkali	270,997	Jan. 23	1452	.....	23	299
, T. Chalkley, Philadelphia, Pa. Packing caustic alkali	270,998	Jan. 23	1453	.....	23	299
, Theodore. (See Baer, Miner, and Taylor.)						
, Theodore F. (See Smith and Taylor.)						
, Theodore F., Brooklyn, N. Y. Chemical telegraph	289,173	Nov. 27	1722	480	25	832
, Thomas, Washington, D. C. Process of and apparatus for treating cotton-seed	276,305	Apr. 24	1840	512	23	1565
, Thomas, Washington, D. C. Treating cotton-seed	289,041	Nov. 27	1571	433, 434	25	805
, Thomas, Casanova, Va., assignor of one-half to G. B. Lawrason, New Orleans, La. anical movement	285,178	Sept. 18	1261	354	24	1134
, Thomas A. (See Whitman and Taylor.)						
, Thomas B., Millersburg, Ohio. Combination-tool for housekeepers	271,000	Jan. 23	1455	419	23	299
, Thomas P., Bridgeport, Conn. Manufacture of base-balls	277,809	May 15	1582	432	23	1911
, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. -office lock-box	284,988	Sept. 11	1013	285	24	1085
, William. (See Beeman, Taylor, and King.)						
, William, assignor of two-thirds to I. C. Pershing and S. Bissell, Pittsburg, Pa. Nail ike	272,600	Feb. 20	1284	357	23	679
, William, assignor of two-thirds to I. C. Pershing and S. Bissell, Pittsburg, Pa. Ma-e for making wire nails	273,190	Feb. 27	2027	570, 571	23	817
, William, assignor to Angular Steel Nail Company, (limited,) Pittsburg, Pa. Spike	278,628	May 29	2627	717	23	2107
, William, assignor to Angular Steel Nail Company, (limited,) Pittsburg, Pa. Ma-e for making spikes and bolts	278,629	May 29	2628	718, 719	23	2107
, William, and F. King, London, England. Plate for batteries	290,611	Dec. 18	1572	432	25	1178
, William A. (See Taylor, Robert E. and W. A.)						
, William B. (See Furman, Olliver P., assignor.)						
, William B., Waltham, Mass. Head-rest for car-seats	283,533	Aug. 21	1282	359	24	743
, William H., New York, N. Y. Gas-generating apparatus	284,776	Sept. 11	763	212, 213	24	1040
, William H., Richmond, Va., assignor, by mesne assignments, to S. S. White Dental ufacturing Company, Philadelphia, Pa. Artificial tooth	278,468	May 29	2435	664	23	2074

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Taylor, William J. (See Clark and Taylor.)						
Taylor, William M., and I. P. Merrill, Parsons, Kans.; said Merrill assignor to said Taylor. Churn	289,786	Dec. 4	512	142	25	975
Taylor, Winfield S., Trenton, N. J. Drip-pan for windows	289,174	Nov. 27	1723	480	25	832
Teachman, Luke N., Lincoln, Nebr. Wood-preserving composition	277,510	May 15	1583	.....	23	1911
Teal, B. Frank, Philadelphia, Pa. Hair-pin	289,897	Jan. 2	88	26	23	19
Teal, B. Frank, Philadelphia, Pa. Freight-car door	276,644	May 1	124	33	23	1648
Teal, B. Frank, Philadelphia, Pa. Grain-car door	280,688	July 3	420	118	24	75
Teal, Benjamin F., Paterson, N. J. Car-coupling	279,614	June 19	1248	346	23	2350
Teall, Augustus T., Jr., assignor of one-third to W. and C. E. Manning, Rochester, N. Y. Car-coupling	288,600	Nov. 13	1022	280, 281	25	695
Teasdale, James M., Howell, Mich. Fruit-drier	279,844	June 19	1517	424	23	2397
Tébar, Jesus M., Carácas, Venezuela. Surveyor's leveling-rod	284,513	Sept. 4	434	123	24	977
Tebbetts, Lewis B., St. Louis, Mo. Index	288,277	Nov. 13	608	166	25	621
Tebbetts, Lewis B., St. Louis, Mo. Index	288,278	Nov. 13	608	166, 167	25	621
Tebow, Theodore, Nicholasville, Ky. Machine for dressing hemp, flax, and other fibrous substances	290,494	Dec. 18	1415	391	25	1151
Tecktonius, Emil, Kenosha, Wis. Side spring for vehicles	279,507	June 12	1124	311	23	2321
Teed, Cyrus R. (See Andrews and Teed.)						
Teeters, Elisha P., Alliance, Ohio. Lock	272,796	Feb. 20	1526	430	23	723
Tegardine, James E., Chicago, Ill. Fountain-pen	278,201	May 22	2068	570	23	2002
Tellier, Charles, Paris, France. Rapidly extracting caloric from or communicating it to liquids	275,437	Apr. 10	756	201, 202	23	1363
Telschow, Robert, Berlin, Germany. Illuminating apparatus for dental purposes	274,671	Mar. 27	1848	515	23	1176
Temple, Bernard M. (See Crowley and Temple.)						
Temple, Charles E. (See Crawford and Temple.)						
Temple, Henry, assignor of one-half to W. H. McCready, Grand Rapids, Mich. Thill-coupling	279,043	June 5	527	143	23	2213
Temple, Morris D., Chicago, Ill. Chain-pump fixture	274,409	Mar. 20	1495	412	23	1107
Temple, Morris D., Chicago, Ill. Pump	285,443	Sept. 25	1574	443	24	1196
Temple, Morris D., Chicago, Ill. Drop check-valve	290,281	Dec. 18	1128	317	25	1101
Temple, Morris D., Chicago, Ill. Rubber bucket for chain-pumps	290,282	Dec. 18	1129	317	25	1101
Templeton, William E., Chicago, Ill. Combined filter, cooler, and refrigerator	280,881	July 10	670	189	24	125
Tener, Commodore P. (See Roush and Tener.)						
Tennant, William, Faribault, Minn. Roller grinding-mill	275,542	Apr. 10	885	239	23	1385
Tennant, William, Faribault, Minn. Roller grinding-mill	275,543	Apr. 10	888	240	23	1386
Tennison, Milton, North Greece, N. Y. Machine for grinding plow-points	275,792	Apr. 10	1905	330	23	1440
Terhune, Edgar, *et al.* (See Carman, John W., assignor.)						
Terhune, John. (See Holt, Thomas, Jr., assignor.)						
Teriault, Octave J., Rutland, Vt. Necktie-fastener	289,175	Nov. 27	1724	481	25	832
Terlinden, Jules M. X., Brussels, Belgium. Rotary engine	271,156	Jan. 23	1638	471, 472	23	330
Terne, Bruno, assignor of three-fourths to D. and E. P. Baugh, Philadelphia, Pa. Treating tank-waters of slaughter-houses	292,411	July 31	2628	721	24	479
Terramorse, Frank F., East Portland, Oreg. Water-proof fabric for making gossamer clothing	284,514	Sept. 4	434	.....	24	978
Terras, Jean M., Lyons, France. Vehicle	287,896	Nov. 6	118	35	25	528
Terry, Ira C., St. Louis, Mo. Car-truck	270,152	Jan. 2	384	111	23	78
Terry. Ira C., St. Louis, Mo. Car-truck	270,153	Jan. 2	384	111	23	78
Terry, Ira C., assignor of one-half to A. Warren, St. Louis, Mo. Car-truck	278,292	May 22	2186	601, 602	23	2021
Terry, James M., Pontiac, Mich. Car-coupling	275,438	Apr. 10	757	202	23	1363
Terry, Le Grand, Dundee, N. Y. Rail and rail-support for barn-doors	282,237	July 31	2412	663	24	441
Terry, Le Grand, Horseheads, N. Y. Knob-lock	288,512	Nov. 13	917	250	25	675
Terry, Louis C., Columbus, Miss. Cotton-bale header	282,801	Aug. 7	391	110	24	569
Terry, Napoleon B., Pensacola, Fla. Fire-escape	274,410	Mar. 20	1496	412	23	1107
Terry, Samuel H., Chicago, Ill. Cable-tube for traction-railways	270,506	Jan. 9	894	240	23	171
Terry, Samuel H., Chicago, Ill. Car-brake	270,507	Jan. 9	896	240, 241	23	171
Terry, Samuel H., Chicago, Ill. Transmitting power from cable-ways	270,509	Jan. 9	836	243	23	173
Terry, Samuel H., Chicago, Ill. Track and switch for cable roads	270,510	Jan. 9	838	243	23	173
Terry, Samuel H., Guthrie, Mo. Traction rope railway	270,508	Jan. 9	828	241, 242	23	179
Terry, Thomas J., Ashland, Mo. Thill-coupling	283,933	Aug. 28	1769	500	24	845
Tessy, Charles H., Leadville, Colo. Bulletin-board	278,630	May 29	2631	719	23	2108
Test, Alpheus, Richmond, Ind. Sod-cutter	272,496	Feb. 20	1152	324	23	656
Test, Alpheus, Richmond, Ind. Sod-cutter	286,652	Oct. 16	1097	295	25	215
Testman, Johan C., Wisner, Nebr. Hay-stacker	277,378	May 8	1070	288	23	1817
Tetamore, Frank L., and S. E. Fordham, Brooklyn, N. Y. Fastener for retaining the heads and bottoms in barrels	275,544	Apr. 10	890	240	23	1386
Tetamore, Frank L., and S. E. Fordham, Brooklyn, N. Y. Tool for applying barrel-head fastenings	284,923	Sept. 11	934	263	24	1070
Teter, John. (See Snell, Jasper, assignor.)						
Teter, William L., Philadelphia, Pa. Process of and apparatus for cleaning grain. (Reissue)	10,275	Jan. 23	1702	492	23	339
Teter, William L., Philadelphia, Pa., assignor to Eclipse Improved Wheat Cleaning Machine Company, Camden, N. J. Mode of and mechanism for cleaning grain	286,744	Oct. 16	1215	328	25	235
Tetley, James B., Pittsburg, Pa. Parallel dividers	279,460	June 12	1063	294	23	2312
Tetlow & Brother, Henry. (See Tetlow, Daniel, assignor.)						
Tetlow, Daniel, assignor to H. Tetlow & Brother, Philadelphia, Pa. Miscroscope	287,978	Nov. 6	237	68	25	549
Teuscher, Charles. (See Clark, George, assignor.)						
Teutelberg, William, Omaha, Nebr. Inside blind	289,176	Nov. 27	1724	481	25	833
Tevis, Edwin L., assignor of seven-tenths to J. N. Whelen, Philadelphia, Pa. Safety-gate for car-platforms	289,726	Dec. 4	448	125	25	964
Tewksbury, George C. (See Reynolds and Tewksbury.)						
Textile Manufacturing Company. (See Brooks, John C., assignor.)						
Thackston, Richard D., assignor of one-half to H. I. Coe, St. Louis, Mo. Self-closing hatchway	271,157	Jan. 23	1040	472	23	330
Thackston, Richard D., assignor of one-half to H. I. Coe, St. Louis, Mo. Self-closing hatchway	274,844	Mar. 27	2043	569	23	1210
Thalheimer, Albert, Reading, Pa. Plant-protector	273,911	Mar. 13	865	235	23	900
Thatcher, Frederick B., and J. W. Johnson, assignors of one-fourth to A. L. Moffitt, New Britain, and W. F. Hurd, Bridgeport, Conn. Bottle-stopper	283,436	Aug. 21	1174	330	24	724
Thatcher, Hervey D., and H. P. Barnhart, Potsdam, N. Y. Hand device for milking cows	282,683	Aug. 7	949	72	24	543
Thatcher, Walter S., Waverly, N. Y. Mattress-frame	286,866	Oct. 16	1367	374	25	262

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Thau, Henry, New York, N. Y. Magneto call	290,495	Dec. 18	1417	392	25	1152
Thayer, Albert, and M. J. Connelly, Roxbury, Mass. Compressed-air brake	283,534	Aug. 21	1282	359	24	743
Thayer, E. Newton. (See Smith, James A., assignor.)						
Thayer, Eli, Worcester, Mass. Steam-pump	274,154	Mar. 20	1169	323	23	1050
Thayer, Eli, Worcester, Mass. Hydraulic valve	274,155	Mar. 20	1170	323	23	1050
Thayer, George B. (See Tobey and Thayer.)						
Thayer, George B., Boston, Mass., assignor to himself and G. H. Wood. Elevator	283,831	Aug. 28	1648	464, 465	24	823
Thayer, Horatio B., and T. G. Wright, Boston, Mass. File	283,832	Aug. 28	1650	465	24	823
Thayer, James F., Providence, R. I. Button-setting instrument	272,918	Feb. 27	1703	476	23	759
Thayer, James F., Providence, R. I. Instrument for setting buttons	272,919	Feb. 27	1704	477	23	760
Thayer, James F., Providence, R. I. Button-fastener	276,645	May 1	125	33	23	1648
Thayer, James F., Providence, R. I. Button-fastener	277,082	May 8	726	190	23	1756
Thayer, James F., assignor to Heaton Button Fastener Company, Providence, R. I. Button-setting instrument	274,053	Mar. 13	1028	281	23	1018
Thayer, James F., and F. A. Smith, Jr., Providence, R. I. Tool-holder	274,232	Mar. 20	1271	351	23	1068
Thayer, James F., and F. A. Smith, Jr., Providence, R. I. Treadle and connection	274,992	Apr. 3	139	39	23	1249
Thayer, William E., Williamsburg, Mass. Ratchet tool-holder	291,007	Dec. 25	2094	577	25	1274
Thayer, William S., Owego, N. Y. Gag-runner	284,258	Sept. 4	127	35	24	926
Thayer, William S., Owego, N. Y. Car-coupling	286,745	Oct. 16	1218	329	25	236
Theberath, Charles M. (See Behrens, William H., assignor.)						
Theilmann, Henry, Cincinnati, Ohio. Bung for the preservation of beer	277,960	May 22	1763	480	23	1048
Theisen, Eduard, Lindenau, near Leipsic, Saxony, Germany. Apparatus for condensing steam and heating fluids	285,936	Oct. 2	203	57, 58	25	39
Thermo Gas Carbonizer Company. (See Copeland, Charles F., assignor.)						
Therrien, Louis C., assignor of seventeen twenty-fourths to A. Lavallée and A. Ouimet, Montreal, Quebec, Canada, and T. Garceau, Boston, Mass. Stringing pianos	288,279	Nov. 13	609	177	25	622
Thickins, John C., Hinsdale, Mass. Oil-can	274,054	Mar. 13	1029	282	23	1018
Thierman, John H., Louisville, Ky. Process of and apparatus for rectifying spirits	284,087	Aug. 28	1979	551	24	880
Thigpen, Job, Greenville, Ala. Car-coupling	277,379	May 8	1070	288	23	1817
Thimonnier, Etienne, Fils, and C. Vernay, Lyons, France; said Thimonnier assignor to said Vernay. Single-thread sewing-machine	287,592	Oct. 30	2306	624, 625	25	448
Thiollier, Antonin, Villeboeuf de Roche la Molière, assignor of one-half to A. Ancel, Chateau de Bouches D'Uzure, Canton de Craon, Mayenne, France. Process of and apparatus for extracting metals from their ores	272,391	Feb. 13	1008	283	23	626
Thissell, E. A., *et al.* (See Coram, John C., assignor.)						
Thissell, Earl A., assignor to Dennis Cash Carrier Company, Lowell, Mass. Cash-carrier	286,504	Oct. 9	904	244	25	174
Thissell, George W., Winters, Cal. Coddling-moth trap and tree-protector	275,093	Apr. 3	281	77	23	1274
Thode, Gustav A., Holstein, Iowa. Traction-engine	287,593	Oct. 30	2310	625	25	449
Thoens, Burchard, assignor of one-half to M. Schwartz, New Orleans, La. Ice-machine	284,515	Sept. 4	435	123, 124	24	978
Thoens, Burchard, assignor of one-half to M. Schwartz, New Orleans, La. Gas-valve for ice-machines	289,727	Dec. 4	449	125	25	965
Thom, Theodor, Richland, Minn. Lifting-jack	287,066	Oct. 23	1629	448	25	314
Thomas, Aaron F. (See Barnhard and Thomas.)						
Thomas, Abner D., Morrillton, Ark. Cotton elevator and distributer	275,960	Apr. 17	1411	389	23	1485
Thomas, Abner D., Morrillton, Ark. Cotton-conveyer	281,319	July 17	1227	340	24	230
Thomas, Alvin S., Findlay, Ohio. Hinge for gates	289,870	Dec. 11	623	173	25	1002
Thomas, Banner. (See Duvall, Grafton H., assignor.)						
Thomas, Boyel S., assignor to Coe Brothers, Waverly, Ill. Animal-poke	275,732	Apr. 10	1122	307	23	1426
Thomas, C. L. (See Thompson, Melchesedeck, Y., assignor.)						
Thomas, Daniel J. (See Thomas, John P. and D. J.)						
Thomas, Eddy T., New York, N. Y. Sewing-machine	276,503	Apr. 24	2093	581, 582	23	1609
Thomas, Eddy T., New York, N. Y. Attachment-holder for sewing-machines	277,083	May 8	727	190	23	1756
Thomas, Eddy T., New York, N. Y. Sewing-machine	277,084	May 8	728	190	23	1756
Thomas, Eddy T., assignor to A. H. Jocelyn, New York, N. Y. Attachment-holder for sewing-machines	273,635	Mar. 6	506	136	23	921
Thomas, Eddy T., New York, N. Y., assignor to Williams Manufacturing Company, Montreal, Canada. Sewing-machine. (Reissue)	10,269	Jan. 9	915	263, 264	23	188
Thomas, Eddy T., New York, N. Y., assignor to New Home Sewing Machine Company, Orange, Mass. Sewing-machine	281,649	July 17	1634	446	24	298
Thomas, Eddy T., New York, N. Y., assignor to New Home Sewing Machine Company, Orange, Mass. Button-sewing attachment for sewing-machines	281,650	July 17	1635	447	24	298
Thomas, Eddy T., New York, N. Y., assignor to New Home Sewing Machine Company, Orange, Mass. Presser-foot for sewing-machines	285,937	Oct. 2	205	58	25	40
Thomas, Eddy T., New York, N. Y., assignor to Weed Sewing Machine Company, Hartford, Conn. Sewing-machine	287,339	Oct. 23	1972	538	25	377
Thomas, Eddy T., New York, and H. L. Brevoort, Brooklyn, N. Y., assignor to Johnston Ruffler Company, Ottumwa, Iowa. Ruffler for sewing-machines	270,512	Jan. 9	842	245	23	174
Thomas, Eddy T., New York, N. Y., assignor to C. W. Williams Manufacturing Company, Montreal, Canada. Sewing-machine shuttle	287,887	Nov. 6	119	35	25	528
Thomas, Edward C. G., Epsom, county of Surrey, England. Breakwater	283,683	Aug. 21	1461	411	24	778
Thomas, Edward J., Oakland, Cal. Feed-cup	280,532	July 3	236	63	24	42
Thomas, Edwin E., assignor of one-half to W. S. Hamilton, Minneapolis, Minn. Animal-trap	269,972	Jan. 2	176	51	23	37
Thomas, Edwin R. (See Cowdery and Thomas.)						
Thomas, Eleazer, Pawtucket, R. I. Machine for making molds for castings	282,588	Aug. 7	138	41	24	524
Thomas, Eugene H. (See Johnson and Thomas.)						
Thomas, Floyd W., Jacksonville, Tex. Buckle	275,545	Apr. 10	891	241	23	1386
Thomas, Francis, assignor to Davis, Gould & Co., Cincinnati, Ohio. Vehicle-seat	290,283	Dec. 18	1130	317, 318	25	1101
Thomas, Frank A., Cedar Rapids, Iowa. Halter-clasp	273,191	Feb. 27	2030	571	23	818
Thomas, George H., Springfield, Mass. Sewing-machine shuttle	273,781	Mar. 13	707	191	23	963
Thomas, George W., assignor to J. I. Vogeler, Baltimore, Md. Machine for bringing paste substances into conical form	276,096	Apr. 17	1579	435, 436	23	1513
Thomas, H., *et al.* (See Roberts, Benjamin F., assignor.)						
Thomas, Henry C., Rock View, N. Y. Insulated metallic roof	283,166	Aug. 14	823	230	24	653
Thomas, James, Catasauqua, Pa. Cut-off mechanism	272,797	Feb. 20	1529	430	23	723
Thomas, James S., assignor of one-half to E. Smith, New Orleans, La. Lamp-sign	274,411	Mar. 20	1497	413	23	1108
Thomas, John, Cedar Rapids, Iowa. Buckle	273,636	Mar. 6	507	136	23	921
Thomas, John, Cedar Rapids, Iowa. Buckle	273,637	Mar. 6	508	136	23	921
Thomas, John, Cedar Rapids, Iowa. Buckle	274,412	Mar. 20	1498	413	23	1108
Thomas, John, Beckenham, county of Kent, England. Feeding-bottle	275,288	Apr. 3	515	142	23	1314
Thomas, John A., Montfort, Wis. Compound for hog-cholera	281,161	July 10	1011		24	185

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Thomas, John B., Indiana, Pa. Odometer	273,638	Mar. 6	509	137	23	921
Thomas, John F., and W. Baker, Ilion, N. Y. Device for truing axles	270,916	Jan. 23	1348	388 389	23	282
Thomas, John G., Newark, Ohio. Fire-escape	284,088	Aug. 28	1981	552	24	881
Thomas, John G., Little Falls, N. Y. Car-axle box	288,890	Nov. 20	1381	381	25	764
Thomas, John H., Springfield, Ohio. Sulky hay-rake	272,351	Feb. 13	944	262	23	615
Thomas, John K., Columbus, Ohio. Vapor-burning cooking-stove	271,158	Jan. 23	1641	472	23	330
Thomas, John P. and D. J., Turner's Falls, Mass. Mortar-tub	280,415	July 3	93	25	24	19
Thomas, John R. (See Cordesman and Thomas.)						
Thomas, John R., Cincinnati, Ohio. Sand-drum for sandpapering-machines	275,733	Apr. 10	1123	307	23	1426
Thomas, John R., H. J. Cordesman, Cincinnati, and F. Danner, Home City, assignors to Cordesman & Egan Company, Cincinnati, Ohio. Sandpapering-machine	287,340	Oct. 23	1973	539	25	377
Thomas, John T., Dayton, Ky. Paving-block	285,444	Sept. 25	1576	443	24	1196
Thomas, John W., Jersey City, N. J., assignor to himself, C. M. Whitmire, Buffalo, and C. S. Houghtaling, New York, N. Y. Stove	273,912	Mar. 13	866	235	23	990
Thomas, Joseph, Hoboken, N. J. Quilting-machine	289,579	Dec. 4	960	73	25	933
Thomas, Joseph, and B. Betzer, Kingston, Ohio. Detachable horseshoe	289,177	Nov. 27	1725	481	25	633
Thomas, Joseph D., assignor to L. F. Requa, New York, N. Y. Manufacture of covered or insulated wire	271,750	Feb. 6	197	55, 56	23	474
Thomas, Joseph M., assignor to B. C. Smith, Auburn, N. Y. Composition for brass electroplating	273,394	Mar. 6	105	.....	23	858
Thomas, Joseph W., and J. D. Otstot, assignors to Thomas, Ludlow & Rodgers, Springfield, Ohio. Fertilizer-distributer	279,044	June 5	598	144	23	2213
Thomas, Joshua, Cleveland, Ohio. Journal-box	279,461	June 12	1063	294	23	2312
Thomas, Joshua, Cleveland, Ohio. Oil-still	282,239	July 31	2413	664	24	441
Thomas, Levi H. (See Auble, William A., assignor.)						
Thomas, Ludlow & Rodgers. (See Thomas and Otstot, assignors.)						
Thomas, Nathaniel E. (See Harris, Milo, assignor.)						
Thomas, Ransom B., Toledo, Ohio. Apparatus for handling ice	277,811	May 15	1583	432	23	1912
Thomas, Richard, Carbondale, Ill. Coke-furnace and apparatus connected therewith	276,504	Apr. 24	2095	582	23	1609
Thomas, Richard J., Milwaukee, Wis. Oil-cup	287,979	Nov. 6	238	68	25	549
Thomas, Samuel A., Charleston, Mo. Revolving wrench	287,194	Oct. 23	1790	491	25	344
Thomas, Samuel E., Brooklyn, N. Y. Waste-trap	286,746	Oct. 16	1219	329	25	236
Thomas, Sidney G., Tedworth Square, county of Middlesex, England. Bessemer converter	274,055	Mar. 13	1030	282	23	1019
Thomas, Wilber, Quincy, Ill. Apparatus for painting fence-pickets by dipping	284,684	Sept. 11	646	182	24	1019
Thomas, Wilber, Quincy, Ill. Picket fence	284,685	Sept. 11	648	183	24	1020
Thomas, William, New York, N. Y. Photographic camera	272,173	Feb. 13	728	201	23	578
Thomas, William B. (See Botsford, William B., assignor.)						
Thomas, William B., Philadelphia, Pa. Hose-jumper	287,341	Oct. 23	1975	540	25	372
Thomas, William H. (See Campbell, William W., assignor.)						
Thomas, William M., assignor of one-half to G. H. Knight, Cincinnati, Ohio. Electro-magnetic motor	279,045	June 5	530	144 145	23	2213
Thomas, William M., assignor of one-half to S. W. Skinner, Cincinnati, Ohio. Electric-arc lamp	278,293	May 22	2187	602	23	2021
Thomas, William M., assignor of one-half to S. W. Skinner, Cincinnati, Ohio. Electric-arc lamp	283,042	Aug. 14	677	190 191	24	627
Thomas, William M., assignor of one-half to S. W. Skinner, Cincinnati, Ohio. Electric railway and locomotive	288,513	Nov. 13	918	251	25	675
Thomason, Frank D., Chicago, Ill. Adjustable hook	274,672	Mar. 27	1849	515	23	1176
Thomass, Herman, Brooklyn, N. Y. Mechanical toy	281,320	July 17	1230	340	24	230
Thome, Samuel W. (See Root and Reilly, assignors.)						
Thommen, Gedeon, Waldenburg, Switzerland. Watch	289,728	Dec. 4	450	126	25	965
Thompson, A. C. (See Eatherton, Henry H., assignor.)						
Thompson, Albert G., Mystic River, Conn. Bolt for doors	271,001	Jan. 23	1456	419	23	299
Thompson, Alfred. (See De Ferranti and Thompson.)						
Thompson, Asa C. (See Eatherton, Henry H., assignor.)						
Thompson, Asa W., Monmouth, Ill. Check-rower	289,468	Dec. 4	112	33	25	906
Thompson, Asa W., Monmouth, Ill., assignor to Thompson, McCullough & Company, of Illinois. Check-rower	277,856	May 15	1638	446	23	1921
Thompson, Benjamin, Buffalo, N. Y. Duplex telegraph	286,867	Oct. 16	1367	375	25	262
Thompson, Charles, Corvallis, Oreg. Drag-saw	271,159	Jan. 23	1643	472	23	330
Thompson, Charles B., St. Catharines, Ontario, Canada. Bobbin-winder for sewing-machines	282,412	July 31	2639	722	24	479
Thompson, Charles O. (See Glazier, Ira W., assignor.)						
Thompson, Charles O., Terre Haute, Ind., assignor to Avery Lactate Company, Portsmouth, N. H. Manufacture of lactic acid and lactates	290,284	Dec. 18	1132	.....	25	1102
Thompson, Charles S., assignor of one-half to J. Wanamaker, Philadelphia, Pa. Game apparatus	286,868	Oct. 16	1369	375	25	262
Thompson, Colin M. (See Reynolds, William R., assignor.)						
Thompson, David W., Englewood, Ill., assignor of one-third to Miller & Bingham, Troy, N. Y. Combined button-fly lap and staying-piece	276,926	May 1	503	131	23	1713
Thompson, David W., Englewood, Ill., assignor of one-third to J. Miller, Troy, N. Y. Combined button-lap and stay-piece for garment-slits	289,469	Dec. 4	113	34	25	907
Thompson, Edward, Hokah, Minn. Making pulp from wood and other fibrous material	287,980	Nov. 6	240	68	25	549
Thompson, Edward, Hokah, Minn. Grain-drying process and appliance	290,719	Dec. 25	1719	474	25	1211
Thompson, Edward W., assignor of two-thirds to J. W. Bennett and A. M. Moore, Lowell, Mass. Tag	271,378	Jan. 30	1927	557	23	387
Thompson, Edward W., and A. M. Moore, assignors of one-third to J. W. Bennett, Lowell, Mass. Mail-bag catcher and deliverer	271,543	Jan. 30	2136	614	23	424
Thompson, Elias, Commercial Point, Ohio. Truss-pad	286,090	Oct. 2	382	105	25	70
Thompson, Eliphaz D. (See Coburn and Thompson.)						
Thompson, Frank, *et al.* (See Cline, John B., assignor.)						
Thompson, Frank H., assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Insulated wire for electrical purposes	274,845	Mar. 27	2044	570	23	1210
Thompson, Fred P., Fredericton, New Brunswick, Canada. Sleigh-shafts	281,162	July 10	1012	283	24	186
Thompson, George B., *et al.* (See King, Sidney D., assignor.)						
Thompson, George F., Oshkosh, Wis. Thill-coupling	281,583	July 17	1552	425	24	284
Thompson, George H., Plattsmouth, assignor of one-fourth to J. E. Blake, Omaha, Nebr. Fire-escape	282,413	July 31	2630	722	24	480
Thompson, George W., Brooklyn, N. Y. Dress-pillow	274,673	Mar. 27	1849	515	23	1176
Thompson, Henry A., Farmington, Me. Wrench	286,653	Oct. 16	1097	296	25	215
Thompson, Henry G. (See Mower, Samuel E., assignor.)						
Thompson, Henry V., Bushton, Ill. Cultivator	288,514	Nov. 13	919	251	25	675
Thompson, Hugh M., St. Louis, Mo. Amalgamator	282,131	July 31	2280	626	24	419

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Thompson, Jacob B. (See Rickman and Thompson.)						
Thompson, James F. (See Allen, Richard, assignor.)						
Thompson, James F., Tuscola, Ill. Plastering compound	286,165	Oct. 2	469	.....	25	88
Thompson, James H., Omaha, Nebr. Hand-cultivator	290,142	Dec. 11	950	269	25	1062
Thompson, James M., San Francisco, Cal. Ore-roasting furnace	281,945	July 24	2024	554	24	372
Thompson, James P., Milwaukee, Wis. Draft-bar for sleighs	270,514	Jan. 9	845	246	23	175
Thompson, Jesse, Rushville, Ind. Gate	282,238	July 31	2413	663	24	441
Thompson, John, assignor to Bucyrus Foundry and Manufacturing Company, Bucyrus, Ohio. Traveling crane and derrick	272,987	Feb. 27	1780	498	23	772
Thompson, John, assignor to Bucyrus Foundry and Manufacturing Company, Bucyrus, Ohio. Traveling crane, derrick, &c	272,988	Feb. 27	1781	499	23	772
Thompson, John, Newcastle-upon-Tyne, county of Northumberland, England. Apparatus for hauling upon slipways	278,631	May 29	2631	719 / 720	23	2108
Thompson, John A., Monticello, N. Y. Baggage-check	281,163	July 10	1013	283	24	186
Thompson, John C., East Liverpool, Ohio. Cover for earthenware vessels	282,802	Aug. 7	392	111	24	569
Thompson, John G., Cuba, Ill. Mine-railway	290,143	Dec. 11	951	269	25	1063
Thompson, John M., Trumansburg, N. Y. Amalgamator	290,815	Dec. 25	1849	510	25	1233
Thompson, John P., Phœnix, Md. Loom-shuttle	284,089	Aug. 28	1983	552	24	681
Thompson, John R., Union County, Ky. Churn	271,544	Jan. 30	2137	615	23	425
Thompson, Josiah W., Milton, assignor of one-half to S. B. Locklin, Boston, Mass. Window-screen	290,496	Dec. 18	1418	392	25	1152
Thompson, Mary E., New York, N. Y. Hair head-dress or wave	276,306	Apr. 24	1841	512	23	1565
Thompson, McCullough & Company. (See Thompson, Asa W., assignor.)						
Thompson, Melchesedeck Y., assignor of one-half to C. L. Thomas, Arkadelphia, Ark. Fireplace	274,846	Mar. 27	2045	570	23	1210
Thompson, Nathan, Brooklyn, N. Y. Stopper for bottles and jars	279,891	June 19	1571	440	23	2407
Thompson, Newell A. (See Foster, John P. C., assignor.)						
Thompson, Norman C. (See Flenniken, Theodore M., assignor.)						
Thompson, Norman C. (See Hall, Asa, assignor.)						
Thompson, Perley & Waite. (See Stevens, Asher B., assignor.)						
Thompson, Philip B., Jr. (See Thompson, Richard H. S., assignor.)						
Thompson, Ransom D., Dumas, Miss. Cotton-press	284,259	Sept. 4	128	35, 36	24	926
Thompson, Richard, New York, assignor to G. H. Clarke, Brooklyn, N. Y. Damper-regulator	272,989	Feb. 27	1782	499	23	773
Thompson, Richard H. S., Lexington, assignor of one-half to P. B. Thompson, Jr., Harrodsburg, Ky. Incandescent electric lamp	280,337	June 26	2121	595	23	2509
Thompson Robert G., White Cottage, Ohio. Car-coupling	274,847	Mar. 27	2046	570	23	1211
Thompson, Robert L., Boulder, Colo. Ore-roasting furnace	282,803	Aug. 7	393	111	24	569
Thompson, Robert W., East Rockport, assignor of one-half to E. H. Saxton, Cleveland, Ohio. Grooming-glove	277,173	May 8	840	222	23	1776
Thompson, Salmon, and W. E. Farrell, Masonville, Iowa. Car-signal	278,831	June 5	210	62	23	2159
Thompson, Samuel R., Brookline, Mass. Elevated railway and car	270,513	Jan. 9	844	246	23	175
Thompson, Samuel R., Brookline, Mass., assignor, by mesne assignments, to New York Bung and Bushing Company, New York, N. Y. Bung and bushing. (Reissue)	10,368	Aug. 14	1069	305	24	702
Thompson, Sheldon E., Meadville, Pa. Snap-hook	278,469	May 29	2436	664	23	2074
Thompson, Sidney C. (See Colt, James B., assignor.)						
Thompson, Thomas J., Beaver Falls, Pa. Insertible saw-tooth	286,091	Oct. 2	392	106	25	70
Thompson, Thomas J., Jr., Chicopee, Mass. Shaking and dumping grate	282,684	Aug. 7	251	73	24	543
Thompson, Washington C., Covington, Ky. Cotton scraper and cultivator	290,814	Dec. 25	1841	509 / 510	25	1233
Thompson, William H., assignor of one-half to I. S. Gordon and W. E. Kurtz, Indianapolis, Ind. Carriage-top joint	290,144	Dec. 11	952	269	25	1063
Thompson, William P. (See Cockcroft, Thomas, assignor.)						
Thompson, William P., Philadelphia, Pa. Sectional steam-generator	281,946	July 24	2027	555	24	372
Thompson, William P., Philadelphia, Pa. Feed-water heater and purifier	282,804	Aug. 7	394	111 / 112	24	569
Thomson, Andrew. (See Shepard, Hoag, and Thomson.)						
Thomson, Benjamin L., London, England. Sheathing for ships' bottoms	272,352	Feb. 13	946	262	23	616
Thomson, Cathcart. (See Nichols, Frederic B., assignor.)						
Thomson, Cathcart. (See Nichols and Thomson.)						
Thomson & Co., W. S. (See Marshall, Nathaniel, assignor.)						
Thomson, Elihu, assignor to American Electric Company, New Britain, Conn. Commutator for dynamo-electric machines	271,947	Feb. 6	436	120	23	517
Thomson, Elihu, assignor to American Electric Company, New Britain, Conn. Electric-current regulator	271,948	Feb. 6	438	120 / 121	23	518
Thomson, Elihu, assignor to American Electric Company, New Britain, Conn. Electro-magnetic retarding device	272,353	Feb. 13	947	263	23	615
Thomson, Elihu, assignor to American Electric Company, New Britain, Conn. Electric-arc lamp	272,920	Feb. 27	1706	477	23	760
Thomson, Elihu, assignor to American Electric Company, New Britain, Conn. Air-blast attachment for commutators of dynamo-electric machines	273,406	Mar. 6	214	58	23	870
Thomson, Elihu, assignor to American Electric Company, New Britain, Conn. Electric-arc lamp	274,413	Mar. 20	1499	413 / 414	23	1108
Thomson, Elihu, assignor to American Electric Company, New Britain, Conn. Safety self-closing shunt-switch for electric-light circuits	275,289	Apr. 3	516	142	23	1314
Thomson, Elihu, assignor to American Electric Company, New Britain, Conn. Safety self-closing shunt-switch for electric-light circuits	275,290	Apr. 3	518	142	23	1314
Thomson, Elihu, assignor to Thomson-Houston Electric Company, New Britain, Conn. Electric lamp	283,437	Aug. 21	1175	330	24	794
Thomson, Elihu, New Britain, Conn., assignor to Thomson-Houston Electric Company. Dynamo-electric machine	281,416	July 17	1345	372	24	250
Thomson, Elihu, New Britain, Conn., assignor to Thomson-Houston Electric Company, Boston, Mass. Electric commutator or switch	283,167	Aug. 14	823	231	24	653
Thomson, Elihu, New Britain, Conn., assignor to Thomson-Houston Electric Company, Boston, Mass. Electric lamp	283,168	Aug. 14	825	231	24	653
Thomson, Elihu, New Britain, Conn., assignor to Thomson-Houston Electric Company, of Connecticut. Safety device for electric-arc lamps	289,580	Dec. 4	262	73, 74	25	933
Thomson-Houston Electric Company. (See Houston, Edwin J., assignor.)						
Thomson-Houston Electric Company. (See Thomson, Elihu, assignor.)						
Thomson, John. (See Barton and Thomson.)						
Thomson, John, Hartford, Conn. Combined cutting-pliers and punch	283,833	Aug. 28	1651	465	24	893
Thomson, John, assignor to M. T. Barton, Brooklyn, N. Y. Differential register	274,674	Mar. 27	1850	516	23	1176
Thomson, John, assignor to M. T. Barton, Brooklyn N. Y. Diaphragm-meter	274,848	Mar. 27	2047	571	23	1211
Thomson, John, Brooklyn, assignor to M. T. Barton, New York, N. Y. Differential register	285,392	Sept. 18	1490	401	24	1164

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Thomson, Judson L., Syracuse, N. Y. Shoe-clasp	272,101	Feb. 13	651	177	23	564
Thomson, Judson L., Syracuse, N. Y. Toe-piece for rubber shoes	272,601	Feb. 20	1285	358	23	679
Thomson, Judson L., Syracuse, N. Y. Combined whip-socket and rein-holder	274,675	Mar. 27	1652	516	23	1176
Thomson, Judson L., Syracuse, N. Y. Shoe-clasp	280,533	July 3	236	64	24	42
Thomson, Judson L., Syracuse, N. Y. Shoe-clasp	280,534	July 3	238	64	24	43
Thomson, Judson L., Syracuse, N. Y. Metallic boot-strap	282,240	July 31	2415	664	24	442
Thomson, Judson L., Syracuse, N. Y. Shoe-clasp	282,241	July 31	2416	664	24	442
Thomson, Judson L., Syracuse, N. Y. Rein-holder	285,525	Sept. 25	1669	470	24	1214
Thomson, Judson L., Syracuse, N. Y. Buckle	290,816	Dec. 25	1844	510	25	1233
Thomson, Langdon & Co. (See Bishop, James M., assignor.)						
Thomson, Peter G., Cincinnati, Ohio. Toy	270,511	Jan. 9	842	243, 244, 245	23	174
Thomson, Peter G., Cincinnati, Ohio. Toy	276,097	Apr. 17	1580	436	23	1513
Thorn, Henry A. A., London, England. Cartridge-crimper	290,370	Dec. 18	1238	349	25	1121
Thorn Wire Hedge Company. (See Briggs, Orlando P., assignor.)						
Thorn Wire Hedge Company. (See Turner and Durkee, assignors.)						
Thorne, Charles E., Springfield, Ohio. Harvester	284,686	Sept. 11	649	183	24	1090
Thorne, Joseph, Port Richmond, N. Y. Type setting and distributing machine	283,934	Aug. 28	1769	500, 501	24	845
Thorne, Richard. (See Bailey, James G., assignor.)						
Thorne, William H. (See Bancroft and Thorne.)						
Thornely, Frederic, *et al.* (See Shoemaker, Jacob, assignor.)						
Thorngate, Charles W. (See McKim, George W., assignor.)						
Thornley, Jasper T. (See Swank and Thornley.)						
Thornton, Benjamin F., *et al.* (See Hershey and Hitchcock, assignors.)						
Thornton, Edwin P., Yellow Springs, Ohio. Harness	281,738	July 24	1765	480	24	325
Thornton, James, assignor of one-fourth to H. G. Dobbins, Wellsville, N. Y. Trace-buckle.	274,849	Mar. 27	2050	572	23	1211
Thornton, James, assignor of one-fourth to H. G. Dobbins, Wellsville, N. Y. Whip-socket.	274,850	Mar. 27	2051	572	23	1211
Thornton, James, assignor of one-fourth to H. G. Dobbins, Wellsville, N. Y. Halter	277,380	May 8	1071	289	23	1817
Thornton, James, assignor of one-fourth to H. G. Dobbins, Wellsville, N. Y. Whip-socket.	285,707	Sept. 25	1884	537	24	1254
Thornton, John, Jr., Brooklyn, N. Y. Expanding reamer	282,685	Aug. 7	252	73	24	543
Thornton, Robert. (See Naylor and Thornton.)						
Thornton, Samuel P. (See Peddle and Thornton.)						
Thornton, William, and A. Ferris, Elkhart, Ind. Automatic gate	288,601	Nov. 13	1024	281	25	695
Thorp, Elliott G., Boston, Mass. Scrap-book	278,302	May 22	2069	570	23	2002
Thorp, George, South Bay City, Mich. Vise	286,345	Oct. 9	719	192	25	140
Thorp, Henry H., Cleveland, Ohio. Type	274,993	Apr. 3	140	39	23	1249
Thorp, James H. (See Hudson, Harry A., assignor.)						
Thorp, James H., Baltimore, Md. Artificial stone	278,671	May 29	2077	733	23	2116
Thorp, Samuel, *et al.* (See Seymour and Bannigan, assignors.)						
Thorpe, Charles N., *et al.* (See Grace, Harry R., assignor.)						
Thorpe, Charles N., *et al.* (See Mueller, Theodore, assignor.)						
Thorpe, Elihu M., Wapella, Ill. Automatic grain-meter	281,164	July 10	1013	284	24	186
Thorpe, Hattie E., French Creek, W. Va. Hair-holder	284,341	Sept. 4	221	63	24	942
Thorpe, Henry A., and R. H. Pfaff, Ashtabula, Ohio. Carriage-top prop-block	286,239	Oct. 9	558	153	25	113
Thorpe, Philip, New York, N. Y. Machine for mixing flour and other substances	276,646	May 1	126	33, 34	23	1649
Thorpe, Wilbur, St. Joseph, Mo. Mechanical key-board attachment for musical instruments	281,947	July 24	2029	555	24	373
Thowless, Orlando, Newark, N. J. Manufacture of bags, &c., for protecting jewelry	286,346	Oct. 9	719	.....	25	141
Threlfall, Thomas, assignor to J. Watson, San Francisco, Cal. Rock-drilling machine	282,686	Aug. 7	253	73, 74	24	543
Threlfall, Thomas, assignor to J. Watson, San Francisco, Cal. Rock-drilling machine	282,687	Aug. 7	256	74	24	543
Thresher, Clarence P., Winona, Minn. Paddle-wheel	275,291	Apr. 3	522	143	23	1315
Thronson, Joel A., Dayton, Wash. Ter. Harrow	278,632	May 29	2033	720	23	2108
Thum, Otto, Grand Rapids, Mich. Fly-paper	278,294	May 22	2191	603	23	2029
Thurber, Edwin S., Boston, Mass. Horseshoe	270,154	Jan. 2	385	112	23	78
Thurber, Edwin S., Boston, Mass. Horseshoe and calk therefor	274,851	Mar. 27	2052	572	23	1211
Thurber, Edwin S., Boston, Mass. Shoe for the hoofs of animals	274,852	Mar. 27	2053	572	23	1211
Thurber, Edwin S., Boston, Mass. Horseshoe	274,853	Mar. 27	2054	573	23	1212
Thurber, Edwin S., Boston, Mass. Horseshoe	276,647	May 1	128	34	23	1649
Thurber, Henry C. (See Moore, Cortland E., assignor.)						
Thurber, Horace K. (See Jones, Jacob G., assignor.)						
Thurber, Theodore, Auburn, N. Y. Car-wheel	287,888	Nov. 6	120	36	25	529
Thurmond, William H., Forsyth, Ga. Car-coupling	289,729	Dec. 4	451	126	25	965
Thurzó, Georg N., Vienna, Austria-Hungary. Rubber holder for crutches, heels, &c.	282,132	July 31	2283	626	24	419
Thwing, Z. C., *et al.* (See Bowen, William J., assignor.)						
Tibbals, John S., San Francisco, Cal. Joint for earthenware pipes	285,179	Sept. 18	1262	354	24	1134
Tibbals, John S., San Francisco, Cal. Back-water gate for sewers	285,180	Sept. 18	1263	355	24	1134
Tibbets, John F., Barton, Kans., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Harvester	286,505	Oct. 9	905	244	25	174
Tibbits, John B. (See Ball, Clinton M., assignor.)						
Tibbits, John B. (See Seeley, Charles A., assignor.)						
Tibbits, John B., Hoosic, N. Y. Balance-wheel	280,096	June 26	1629	514	23	2458
Tibbits, John B., Hoosic, N. Y. Electric-arc lamp	285,445	Sept. 25	1577	443	24	1196
Tibbits, John B., Hoosic, N. Y. Electric-arc lamp	287,067	Oct. 23	1631	449	25	315
Tibbles, Charles E. (See Lennox, David, assignor.)						
Tibbles, Charles E., Burlington, Iowa. Journal-bearing	275,292	Apr. 3	523	143	23	1315
Tibbles, Charles E., assignor to Tibbles Sewing Machine Company, Burlington, Iowa. Sewing-machine	274,056	Mar. 13	1031	282, 283, 284	23	1019
Tibbles, Charles E., assignor to Tibbles Sewing Machine Company, Burlington, Iowa. Sewing-machine	274,057	Mar. 13	1035	284, 285	23	1019
Tibbles, Charles E., assignor to Tibbles Sewing Machine Company, Burlington, Iowa. Treadle for sewing-machines	274,058	Mar. 13	1039	286	23	1020
Tibbles Sewing Machine Company. (See Tibbles, Charles E., assignor.)						
Tichenor, Anson C., Alameda, Cal., assignor to E. K. Valentine, Cuming County, Nebr. Treating alcoholic liquors with electricity	280,882	July 10	671	189	24	125
Tidd, Milton, assignor of one-half to J. C. Vreeland, Seneca Falls, N. Y. Vehicle-wheel hub	279,892	June 19	1573	441	23	2407
Tidemann, Henry G., assignor of one-half to Helmbacher Forge and Rolling Mills Company, St. Louis, Mo. Link-bending machine	280,097	June 26	1631	515, 516	23	2458
Tiers, Alexander H., *et al.* (See Pendleton, John H., assignor.)						
Tiers, Cornelius, *et al.* (See Pendleton, John H., assignor.)						
Tiffany, Albert R., Dayton, Ohio. Paper vessel	279,992	June 26	1700	477	23	2435
Tiffany, David B., Xenia, Ohio. Fishing-stake	279,508	June 12	1125	311	23	2321

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tiffany, John C., Xenia, Ohio. Division-mat for oil-presses	275,961	Apr. 17	1412	389, 390	23	1485
Tiffany, Joseph C., *et al.* (See Chipman, William W., assignor.)						
Tihon, Pierre, Lyons, France. Electric lamp	278,832	June 5	211	63	23	2159
Tilden, James A. (See Prentiss and Tilden.)						
Tillett, Charles W., Fairview, Ohio. Fire-escape	289,730	Dec. 4	452	126	25	965
Tilley, Arthur. (See Morton and Tilley.)						
Tilley, Edward J., Tompkinsville, N. Y. Planting-machine	269,898	Jan. 2	89	26, 27	23	19
Tilley, Samuel, and J. M. Sanford, Brookline, Mo. Mowing and reaping machine	269,899	Jan. 2	93	27	23	20
Tillou, Walter G., and J. W. Clapp, New Haven, Conn., assignors to C. I. Kane and R. E. Lester, New York, N. Y. Warp stop-motion for looms	289,871	Dec. 11	624	173, 174	25	1002
Tillou, Walter G., and J. W. Clapp, New Haven, Conn., assignors to C. I. Kane and R. E. Lester, New York, N. Y. Shuttle-motion for looms	290,285	Dec. 18	1133	318	25	1102
Tillou, Walter G., and J. W. Clapp, New Haven, Conn., assignors to C. I. Kane and R. E. Lester, New York, N. Y. Harness-motion for looms	290,286	Dec. 18	1134	318	25	1102
Tillou, Walter G., and J. W. Clapp, New Haven, Conn., assignors to C. I. Kane and R. E. Lester, New York, N. Y. Take-up motion for looms	290,287	Dec. 18	1136	319	25	1102
Tilton, Hubert P., Albion, Me., and R. E. Tilton, Brockton, Mass. Steam-generator	272,798	Feb. 20	1530	431	23	723
Tilton, Leonard, Brooklyn, N. Y. Blind-stop	277,381	May 8	1073	289	23	1817
Tilton, Rufus E. (See Tilton, Hubert P. and R. E.)						
Timby, Theodore F., Brooklyn, N. Y. Steam-cooker	273,913	Mar. 13	866	235	23	990
Timby, Theodore R., Nyack, N. Y. Combined amalgamator and separator	281,651	July 17	1637	447	24	298
Time Telegraph Company. (See Bailey, Henry L., assignor.)						
Time Telegraph Company. (See Gray, Adelbert W., assignor.)						
Time Telegraph Company. (See Himmer, Vitalis, assignor.)						
Timmons, J. M., *et al.* (See Grove and Steely, assignors.)						
Timmons, T. J., *et al.* (See Grove and Steely, assignors.)						
Timms, Benjamin F. (See Timms, Harvey N., assignor.)						
Timms, Harvey N., Kent, assignor of one-half to B. F. Timms, Lena, Ill. Cultivator-shovel	275,546	Apr. 10	891	241	23	1386
Timms, James, Columbus, Ohio. Brake-shoe	275,547	Apr. 10	892	241	23	1386
Timms, James, Columbus, Ohio. Car-axle box	277,382	May 8	1074	289	23	1818
Timoney, Robert E., and C. R. Brown, Patten, Me. Dust-pan	288,280	Nov. 13	610	167	25	622
Tingle, William H., Dayton, Ohio. Flower-stand	284,090	Aug. 28	1983	552	24	881
Tingley, John, Philadelphia, Pa. Heel-trimming machine	290,817	Dec. 25	1845	511	25	1233
Tinker, Charles O., Ashtabula, Ohio. Machine for making auger-blanks	280,098	June 26	1833	516	23	2459
Tinker, Charles O., Ashtabula, Ohio. Roller-die for making auger and bit blanks	286,972	Oct. 16	1502	413	25	285
Tinker, Franklin H. (See Fuller, Claude V., assignor.)						
Tinker, Giles K. (See Gardner, Le Roy, and Tinker.)						
Tinkham, Alden R. (See Clough, Enos M., assignor.)						
Tinkham, Alden R., *et al.* (See Mitchell, James C., assignor.)						
Tinney, Cornelius. (See Haukin and Tinney.)						
Tinsley, W. W. (See Hussey, John J., assignor.)						
Tirre, William, *et al.* (See Barditzky, Hermann, assignor.)						
Tirre, William. (See Brandenburger, Tirre, and Barditzky.)						
Tirrell, Jacob P. (See Blodgett, Read, and Tirrell.)						
Tirrell, Jacob P., Somerville, assignor to W. R. Nutting, Boston, Mass. Automatic circuit-opener	283,303	Aug. 14	994	278, 279	24	695
Tisch, Charles, Jr. (See Ripczinski and Tisch.)						
Tisdale, Charles D., Boston, Mass., assignor, by mesne assignments, to American Railway Signal Company, New York, N. Y. Railway signal apparatus	273,639	Mar. 6	510	137	23	921
Tisdale, William S., New York, N. Y. Lamp, candlestick, &c	275,293	Apr. 3	523	143	23	1315
Tise, Charles H. (See Tise, Jacob C. and C. H.)						
Tise, Jacob C. and C. H., Winston, N. C. Friction-brake for pulleys, &c	273,914	Mar. 13	868	236	23	991
Tissier, Charles G. (See Tissier, Peter and C. G.)						
Tissier, Peter and C. G., Selma, Ala. Cartridge-extractor for breech-loading guns	289,787	Dec. 4	513	142	25	975
Tittle, Cyrus P., Johnstown, Pa. Rail-straightening machine	283,535	Aug. 21	1283	359	24	744
Titus, Andrew, Springfield, Mass. Mop-head	275,294	Apr. 3	524	143	23	1315
Titus, James M., assignor to G. A. Mannie & Co., Petersburg, Va. Machine for cutting box-patterns	272,354	Feb. 13	949	263, 264	23	616
Titus, John C., Marion, Ohio. Steam-boiler	273,640	Mar. 6	511	137, 138	23	921
Titus, Luther H., San Gabriel, Cal. Portable ladder for gathering fruit	289,942	Dec. 11	706	199, 200	25	1017
Titus, Odeon H., assignor of one-half to J. M. Poole Company, Wilmington, Del. Machine for reducing wheat and other grain	286,973	Oct. 16	1503	413	25	285
Titzell, William W., Allegheny, assignor to himself and A. Meyer, Bridgewater, Pa. Manufacture of nails	288,958	Nov. 20	1464	404	25	779
Tix, Ernest, Denver, Colo. Adjustable table	270,263	Jan. 9	516	151	23	111
Tobey, Henry A., Dayton, Ohio. Folding table	285,526	Sept. 25	1670	470	24	1214
Tobey, Horace P. (See Cary, James H., assignor.)						
Tobey, Horace P., Wareham, and G. B. Thayer, Boston, Mass., assignors to Golden Gate Concentrator Company, Augusta, Me. Ore separator and amalgamator	287,195	Oct. 23	1791	491, 492	25	345
Tobey, Lyman, Naples, N. Y. Wick-tube for lamp-burners	278,295	May 22	2192	603	23	2022
Tobias, Cyrus, Freeport, Ill., assignor to himself, M. Hettinger, F. Gund, C. O. Collmann, and E. Mayer. Metallic crupper-pad	273,641	Mar. 6	512	138	23	922
Tobias, Henry H., Chicago, Ill. Parcel-carrier	286,654	Oct. 16	1098	296	25	215
Tobin, Michael, Baldwinsville, N. Y. Packing tobacco in cases	290,818	Dec. 25	1847	511	25	1234
Tobin, Robert. (See Sullivan and Tobin.)						
Tobin, Thomas, Sioux Falls, Dak. Ter. Chamfering-machine	276,927	May 1	505	131	23	1713
Todd, Abraham, and L. H. McKee, Constantia, N. Y. Fire-escape	277,433	May 8	1136	306	23	1827
Todd, Alexander B., Philadelphia, Pa. Brake-shoe	283,438	Aug. 21	1177	331	24	724
Todd, George N., Little Rock, Ark. Cotton-picker	271,160	Jan. 23	1644	473	23	330
Todd, George N., Fort Smith, Ark. Cotton-harvester	275,094	Apr. 3	282	77	23	1274
Todd, George N., Fort Smith, Ark. Cotton-harvester	285,856	Oct. 2	92	27, 28	25	19
Todd, Henry B., Meriden, Conn. Cutting-nippers	285,446	Sept. 25	1578	444	24	1196
Todd, Ira G., Bridgeport, Conn. Drill-chuck	282,015	July 24	2110	578	24	385
Todd, James, Pittsburg, assignor of one-half to J. Clemens, Erie, Pa. Clothes-wringer	272,990	Feb. 27	1783	499	23	773
Todd, Marshall, Danville, Ind. Interest-calculator	271,949	Feb. 6	442	121	23	518
Todd, Samuel K., Eugene, Ind. Machine for hulling and cleaning wheat	276,200	Apr. 24	1709	472, 473	23	1543
Todd, Samuel K., Eugene, Ind. Machine for hulling and cleaning grain	290,288	Dec. 18	1137	319	25	1102
Todd, William E., Philadelphia, Pa. Follower for condenser-tubes	288,891	Nov. 20	1382	381	25	764
Toedt, Frederick W., Glenwood, Iowa. Sheet-metal punch	278,633	May 29	2633	720	23	2108

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Togus, Theodore M. (See Boynton and Togus.)						
Toffler, Anna. (See Toffler, Simon, assignor.)						
Toffler, Simon, assignor to A. Toffler, New York, N. Y. Floor-mat	276,983	May 1	584	153	23	1726
Tolbert, Martain L., Eldon, Iowa. Riding-saddle	283,043	Aug. 14	681	191	24	628
Tolbert, Martain L., Eldon, Iowa. Stock-feeder	284,091	Aug. 28	1984	553	24	881
Toledo Mower and Reaper Company. (See Davis, John S., assignor.)						
Toll, Fredrik, and W. Weber, Chicago, Ill. Shoe	281,739	July 24	1766	480	24	325
Tolman, Elijah, assignor to Reed & Barton, Taunton, Mass. Spoon and fork	285,769	Sept. 25	1979	561	24	1268
Tolman, James P., West Newton, Mass. Machine for making cordage, webbing, &c.	276,201	Apr. 24	1711	473	23	1543
Toman, Philip, Brookville, Ohio. Portable fence	274,532	Mar. 27	1684	467	23	1146
Tomkins, Cornelius T., New York, N. Y. Storage-battery	279,046	June 5	532	145	23	2214
Tomkins, Cornelius T., New York, N. Y. Storage-battery	284,342	Sept. 4	223	63	24	942
Tomlin, Albert B., Fort Collins, Colo. Twine holder and lifter	289,581	Dec. 4	265	74	25	934
Tomlinson, Benjamin W., and A. Balch, assignors to P. W. Gage, trustee, New York, N. Y. Newspaper wrapping, addressing, and sorting machine	272,355	Feb. 13	952	265, 266	23	616
Tomlinson, G. F. (See Case, Charles P., assignor.)						
Tomlinson, H. R. (See Johnson, Adelbert L., assignor.)						
Tomlinson Spring and Axle Works, R. (See Lewis, Charles, assignor.)						
Tomlinson, William. (See Curry, Joseph P., assignor.)						
Tomney, James, New York, N. Y. Electric burglar-alarm	289,470	Dec. 4	115	34	25	907
Tomney, James, New York, N. Y. Electric burglar-alarm	289,471	Dec. 4	120	34, 35	25	908
Tompkins, E. H. Cady, Glen's Falls, N. Y. Car-coupling	287,483	Oct. 30	2155	586	25	419
Tompkins, George S. (See Cram and Tompkins.)						
Tompkins, Samuel E., Newark, N. J. Harness-saddle	286,347	Oct. 9	720	193	25	141
Tondeur, Cleon, Ithaca, N. Y. Oil-burner	278,374	May 29	2390	635	23	2054
Tonks, Joseph. (See Whitmore and Tonks.)						
Toole, Richard O., Perth Amboy, N. J. Steering apparatus	282,805	Aug. 7	396	112	24	569
Toombs, James E., Tyner, Utah Ter. Windmill	273,642	Mar. 6	513	138	23	922
Toombs, William, Logan, Utah Ter. Car-replacer	287,738	Oct. 30	2504	674	25	485
Topham, Phineas, Newark, N. J. Violin-bridge	278,634	May 29	2634	720	23	2108
Topmiller, Bernard, assignor of one-half to S. Obermayer and J. Heinsheimer, Cincinnati, Ohio. Steam-boiler furnace	274,854	Mar. 27	2055	573	23	1212
Toppan, Charles, Salem, Mass., assignor of two-thirds to G. F. Senter, New York, N. Y. Paint	272,102	Feb. 13	652	.....	23	564
Toppan, James S., *et al.* (See Allen, Samuel F., assignor.)						
Toppan, James S., *et al.* (See Freeman, Thomas R., assignor.)						
Torras, Joseph, Red River Landing, La. Levee	283,684	Aug. 21	1462	411	24	778
Torrence, Joseph T., Chicago, Ill. Manufacture of steel nails	288,138	Nov. 6	426	.....	25	582
Torrence, Levi N., and R. T. Reid, Shawneetown, Mo. Saw-sharpening gage	286,348	Oct. 9	721	193	25	141
Torrey Automatic Brake Company. (See Guernsey, William B., assignor.)						
Torrey Automatic Brake Company. (See Guernsey and Turner, assignors.)						
Torrey Automatic Brake Company. (See Turner, William B., assignor.)						
Torrey, Dolphus, New York, N. Y. Locomotive and train brake	276,928	May 1	506	132	23	1713
Torrey, Dolphus, New York, N. Y. Automatic take-up for car-brakes	276,929	May 1	508	132	23	1714
Torrey, Dolphus, New York, N. Y. Automatic car-brake	276,930	May 1	509	132, 133	23	1714
Torrey, Dolphus, New York, N. Y. Car-brake	276,931	May 1	512	133, 134	23	1714
Torrey, Dolphus, New York, N. Y. Car-brake	276,932	May 1	515	134	23	1715
Torrey, Dolphus, New York, N. Y. Car-brake	276,933	May 1	519	135	23	1715
Torrey, Dolphus, New York, N. Y. Car-brake	276,934	May 1	521	135	23	1716
Torrey, Dolphus, New York, N. Y. Car-brake	276,935	May 1	522	135, 136	23	1716
Torrey, Dolphus, New York, N. Y. Car-brake	276,936	May 1	525	136	23	1716
Torrey, Dolphus, New York, N. Y. Car-brake	276,937	May 1	526	136	23	1716
Torrey, Dolphus, New York, N. Y. Car-brake	276,938	May 1	528	137	23	1717
Torrey, Dolphus, New York, N. Y. Car-brake	287,889	Nov. 6	123	36	25	529
Torrey, Ingersoll T., Beeton, Ontario, Canada. Combination-tool	285,708	Sept. 25	1885	537	24	1254
Torrey, Joseph R. (See Wilson, John A., assignor.)						
Torrey, Joseph R., Worcester, Mass. Razor-strop	272,356	Feb. 13	956	266	23	617
Torrey, Joseph R., Worcester, Mass. Razor-strop	272,357	Feb. 13	956	266	23	617
Torrey, Joseph R., Worcester, Mass. Razor-strop	279,615	June 19	1249	346	23	2350
Torrey, Joseph R., Worcester, Mass. Razor-strop	279,616	June 19	1250	347	23	2351
Torrey, Joseph R., Worcester, Mass. Razor-strop	288,380	Nov. 13	749	204	25	645
Torrey, Joseph R., Worcester, Mass. Razor-strop	288,381	Nov. 13	750	204	25	646
Torst, William, Bingham Cañon, Utah Ter. Fire-escape	283,439	Aug. 21	1177	331	24	724
Tostevin, David. (See Bryant and Tostevin.)						
Totham, James. (See Miller, Richard W., assignor.)						
Tottle, William A. (See Sheeler, William H., assignor.)						
Touchet, Louis A., Cambridge, Mass. Fare-register	278,754	June 5	98	28	23	2140
Touchet, Louis A., Cambridge, Mass. Passenger-register	286,349	Oct. 9	722	193, 194	25	141
Tougas, Louis T., Milford, Mass. Apparatus for and method of cutting elastic soles or heels	277,085	May 8	729	191	23	1757
Tousey, Donald F., assignor of one-half to J. F. Canney, Minneapolis, Minn. Gage-cock	274,994	Apr. 3	140	40	23	1250
Tousley, Edgar M., Albion, N. Y. Binding attachment for harvesters	283,935	Aug. 28	1775	501	24	846
Toussaint, Christian, New York, N. Y., assignor to M. and A. Gerstendorfer, Hoboken, N. J. Vial or bottle	274,995	Apr. 3	142	40	23	1250
Towan, James H., assignor of one-half to A. Keach, Charlestown, Mass. Gas-lighting apparatus	280,689	July 3	421	119	24	75
Tower, George B. N., New York, N. Y., assignor of one-half to E. L. Lambie, Washington, D. C. Steam-pump	270,515	Jan. 9	846	246	23	175
Tower, John J. (See Poole, Samuel, assignor.)						
Tower, John J., Brooklyn, N. Y. Lemon-squeezer	271,002	Jan. 23	1456	420	23	299
Tower, John J., Brooklyn, N. Y. Police-nippers	276,307	Apr. 24	1842	512	23	1566
Tower, John J., Brooklyn, N. Y. Pipe-wrench	290,099	June 26	1835	516	23	2459
Tower, Lewis C., and J. Lamont, Rochester, N. Y. Razor-strop	271,997	Feb. 6	508	136	23	528
Towl, Ebenezer B., Franktown, Nev. Hay rake and loader	277,174	May 8	841	222	23	1776
Towle, John J., Dixfield, Me. Fruit-drier	284,579	Sept. 4	514	143	24	990
Towne, L. W., *et al.* (See Henry, John C., assignor.)						
Towne, William J. (See Elliott and Towne.)						
Townes, Quincy A., Lynn, Mass. Machine for nailing heel-lifts	276,648	May 1	129	34	23	1649
Townsend, Beeason J. J., St. Louis, Mo. Step for street-cars	280,883	July 10	672	189	24	126
Townsend, Charles W., Charleston, S. C. Car-coupling	284,260	Sept. 4	129	36	24	936
Townsend, George T., Warren, Ohio. Undertaker's cooling-board	277,961	May 22	1763	481	23	1948

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Townsend, Henry E., Hadley, Mich. Lifting-machine	271,545	Jan. 30	2138	615	23	425
Townsend, Joseph, *et al.* (See McGregor, Rob Roy, assignor.)						
Townsend, William E., Jr., Brooklyn, N. Y. Protector attachment for electrical conductors	278,635	May 29	2635	721	23	2109
Townsend, William H., assignor of two-thirds to S. T. Machette and J. M. Meiere, Philadelphia, Pa. Soap	281,807	July 24	1859	.....	24	343
Trabue, Isaac H., Louisville, Ky. Coupling-link	270,860	Jan. 16	1270	367	23	263
Trabue, William, Louisville, Ky. Loading-gate for magazine-guns	276,308	Apr. 24	1843	513	23	1566
Tracht, John A., Galion, Ohio. Hot-bed and other frames for plants	282,242	July 31	2416	664	24	442
Tracy, Andrew, Richland, Iowa. Shuttle-carrier for sewing-machines	270,617	Jan. 16	975	282	23	207
Tracy, George S., *et al.* (See Johnson, William H., assignor.)						
Tracy, Harriet R., New York, N. Y. Fire-escape	272,103	Feb. 13	652	177	23	564
Tracy, William H. H., assignor to J. Miller, Troy, N. Y. Shirt	270,264	Jan. 9	517	152	23	111
Tracy, William P., Grand Rapids, Mich. Nut-lock	280,690	July 3	422	119	24	75
Träder, Frank L. (See Vadersen and Träder.)						
Trafton, Alfred S., Portsmouth, N. H. Fire-escape	277,175	May 8	842	222	23	1776
Train, Edgar H., Helena, Mont. Ter. Shoe-fastener	275,295	Apr. 3	525	144	23	1315
Trammer, Charles W., Great Falls, Md. Fishway	286,869	Oct. 16	1370	375	25	263
Trane, James A., La Crosse, Wis. Steam-trap	286,506	Oct. 9	906	245	25	175
Traphagan, George W., Glen's Falls, N. Y. Cap or shield for buckle-straps of carriage-tops	290,289	Dec. 18	1138	319	25	1103
Traphagan, George W., Glen's Falls, N. Y. Sheet-metal fastener	290,290	Dec. 18	1139	320	25	1103
Trapp, Edward A., New York, N. Y. Locomotive	278,470	May 29	2436	664	23	2074
Trask, James E., Salem, Mass. Building-cement	271,950	Feb. 6	443	.....	23	519
Traut, Justus A., assignor to Stanley Rule and Level Company, New Britain, Conn. Beading-tool	284,777	Sept. 11	764	213, 214	24	1040
Trautmann, John F., St. Louis, Mo. Horse-collar	277,857	May 15	1640	446	23	1922
Travers, Vincent P. (See Rood, Albert O., assignor.)						
Travis, S. Augusta. (See Burton, George D., assignor.)						
Travis, William C., Gilman, Ill., assignor of one-half to W. H. Francisco, Defiance, Ohio. Car-brake	287,395	Oct. 23	2042	555	25	389
Traxler, Lester, Butler, Ohio. Portable saw-mill	271,546	Jan. 30	2139	615	23	425
Traylor, Robert W., Richmond, Va. Journal bearing and box	286,563	Oct. 9	978	263	25	188
Trazy, Jean B., Grenoble, France. Apparatus for sulphuring plants	290,145	Dec. 11	953	269	25	1063
Trease, John W., Loudonville, Ohio. Whiffletree-iron	288,681	Nov. 20	1127	310	25	718
Treat, Charles H. (See Banghart and Treat.)						
Treat, Francis H. Joliet, Ill. Machine for making barbed fence-wire	276,505	Apr. 24	2096	582	23	1610
Treat, Francis H., Joliet, Ill. Machine for straightening railway-rails	286,655	Oct. 16	1099	296, 297	25	215
Treat, Isaac G., Reading, Pa. Ice-creeper	286,240	Oct. 9	559	153	25	113
Treat, Jairus J., Detroit, Mich. Grain-car door	280,972	July 10	766	218	24	144
Treber, John, Cynthiana, Ohio. Wine and cider press	271,161	Jan. 33	1646	473	23	331
Trees, Cyrus E., *et al.* (See Meltzer and Baker, assignors.)						
Trees, Ethan E., *et al.* (See Meltzer and Baker, assignors.)						
Trees, James W., *et al.* (See Meltzer and Baker, assignors.)						
Trefethen, Saltmarsh & Willey. (See Higley, Eben N., assignor.)						
Treftz, J. Fredrick, Chicago, Ill. Step-ladder	274,855	Mar. 27	2056	573	23	1212
Tregurtha, James, Boston, Mass. Machine for spreading surfacing material upon cloth and other flexible material	279,462	June 12	1065	295	23	2312
Tregurtha, James, Malden, assignor, by mesne assignments, to Adjustable Telephone Support Company, Boston, Mass. Telephone-switch	289,178	Nov. 27	1726	481, 482	25	833
Tregurtha, James. Malden, assignor, by mesne assignments, to Adjustable Telephone Support Company, Boston, Mass. Support for telephones	289,179	Nov. 27	1730	482	25	834
Tregurtha, James, Malden, assignor, by mesne assignments, to Adjustable Telephone Support Company, Boston, Mass. Support for telephones	289,180	Nov. 27	1734	482	25	834
Tregurtha, James, Malden, assignor, by mesne assignments, to Adjustable Telephone Support Company, Boston, Mass. Telephone-switch	289,321	Nov. 27	1900	529	25	867
Treman, Howard L., Hector, N. Y. Bolster-plate for vehicles	270,265	Jan. 9	518	152	23	111
Tremblay Zotique, Haverhill, Mass. Tool-handle	274,414	Mar. 20	1501	414	23	1108
Trench, Ira J., assignor of one-half to C. F. La Mont, New York, N. Y. Revolving advertising device	272,174	Feb. 13	730	201	23	578
Trenear, John G., Huntington, W. Va. Car-coupling	271,951	Feb. 6	444	121	23	519
Trenholm, James N. (See Langtry, Richard, assignor.)						
Trenholm, Savage D., Charleston, S. C. Car-coupling	285,181	Sept. 18	1264	355	24	1134
Trenk Heinrich, Berlin, Germany, assignor of two-thirds to J and C. Ballatschano, Bucharest, Roumania. Process of and composition for waterproofing leather, &c	274,059	Mar. 13	1040	.....	23	1090
Trenton Iron Company. (See Hewitt, William, assignor.)						
Trenton Iron Company. (See Withington, James, assignor.)						
Trerwiler, Charles, and T. Bast, Hennepin, Ill., assignors to F. P. Lawrence, Racine, Wis. Two-wheeled vehicle	276,309	Apr. 24	1844	513	23	1566
Trescot, Eliza N. (See Trescot, Stephen B., assignor.)						
Trescot, Stephen B., assignor of one-half to E. N. Trescot, Pendleton, S. C. Winter covering for door-steps	271,205	Jan. 23	1701	491	23	339
Tresselt, Oscar W., Fort Wayne, Ind. Roller grain-mill	279,673	June 19	1326	367, 368	23	2363
Trested, Richard H., Greenville, N. J. Hat or other head-covering	270,155	Jan. 2	385	112	23	78
Trested, Richard H., Greenville, N. J. Hat	280,262	June 26	2022	569	23	2492
Trested, Richard H., Greenville, N. J. Insole for boots and shoes	284,092	Aug. 28	1966	533	24	882
Trexler, James L., Mertztown, Pa. Truck for moving plows	276,375	May 29	2321	635	23	2054
Tribe, Alfred, Denbigh Road, Nottinghill, county of Middlesex, England. Secondary battery	284,343	Sept. 4	224	63	24	942
Trick, Wilkins, *et al.* (See Hutchings, Richard J., assignor.)						
Trieller, Peter J., assignor to A. Meinecke & Son, Milwaukee, Wis. Toy gun	285,368	Sept. 18	1478	416	24	1173
Trieloff, Ernst, Cassel, Prussia, Germany. Tobacco-pipe	288,382	Nov. 13	751	204	25	646
Trier, Frank, London, county of Middlesex, England, assignor to A. C. Baldwin, Boston, Mass. Lathe for dressing stone	283,685	Aug. 21	1463	412	24	778
Triggs, Frank J., assignor to G. E. Messer, Boston, Mass. Boot-blacking case	276,542	Apr. 24	2144	596	23	1617
Triggs William P., East Portland, Oreg. Harrow	286,974	Oct. 16	1504	414	25	285
Trimble, Andrew T., New Brighton, Pa., assignor to Pittsburg Hinge Company, (limited.) Link-winding machine	270,861	Jan. 16	1271	367	23	263
Trimble, John S. (See Lutz, George W., assignor.)						
Trimmer, Benjamin T., Rochester, N. Y. Machine for bolting flour and cleaning middlings	287,890	Nov. 6	125	37	25	529
Trinkaus, Philipp, West Stratford, Conn. Feeding cartridge-shell blanks	285,182	Sept. 18	1266	355	24	1135

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Trinkle, John W. (See Parsons and Trinkle.)						
Tripler, Charles E., New York, N. Y. Process of and apparatus for amalgamating ores	287,981	Nov. 6	241	68, 69	25	549
Tripp, Augustus F., Buffalo, N. Y. Cover for vessels	288,139	Nov. 6	428	120	25	582
Tripp, Benjamin H. (See Ball and Tripp.)						
Tripp, Bradford H., Gallatin, Mo. Shock-hauler	282,806	Aug. 7	396	112	24	570
Tripp, Frank, Sr., Upper Sandusky, Ohio. Wagon-tongue support	282,405	July 31	2619	719	24	478
Tripp, Henry A. and W., East Williamson, N. Y. Apple-slicer	283,686	Aug. 21	1465	412, 413	24	779
Tripp, James, New York, N. Y., assignor to C. T. and E. F. Beckwith, Oberlin, Ohio. Sewing-machine shuttle	276,731	May 1	263	67	23	1669
Tripp, James, New York, N. Y., assignor to C. T. and E. F. Beckwith, Oberlin, Ohio. Sewing-machine	282,406	July 31	2620	720	24	478
Tripp, James, New York, N. Y., assignor to C. T. and E. F. Beckwith, Oberlin, Ohio. Sewing-machine	282,407	July 31	2621	720	24	478
Tripp, James, New York, N. Y., assignor to C. T. and E. F. Beckwith, Oberlin, Ohio. Sewing-machine	282,408	July 31	2623	720	24	478
Tripp, James, New York, N. Y., assignor to C. T. and E. F. Beckwith, Oberlin, Ohio. Sewing-machine	282,409	July 31	2624	721	24	479
Tripp, James, New York, N. Y., assignor to C. T. and E. F. Beckwith, Oberlin, Ohio. Sewing-machine tension device	282,410	July 31	2626	721	24	479
Tripp, Walter. (See Tripp, Henry A. and W.)						
Trippe, Sylvanus L. (See Bliss, Abel H., assignor.)						
Trippe, Sylvanus L., assignor of one-half to A. H. Bliss, Chicago, Ill. Apparatus for amalgamating and separating gold, &c., from their ores	271,162	Jan. 23	1647	474	23	331
Trites, John S., Moncton, New Brunswick, Canada. Railway-signal	279,463	June 12	1066	295	23	2312
Trites, John S., Moncton, New Brunswick, Canada, assignor of one-half to E. G. Russell, St. Paul, Minn. Train-order signal	271,547	Jan. 30	2141	616	23	425
Tritt, Charles W., *et al.* (See Gilbert, Frank, assignor.)						
Trott, John R., and J. W. McElvain, Auburn, Ill. Automatic register	281,652	July 17	1638	447, 448	24	298
Trott, Samuel, and F. A. Hamilton, Halifax, Nova Scotia, Canada. Submarine telegraph-cable	271,548	Jan. 30	2142	616	23	426
Trotter, William, Jr., Oyster Bay, N. Y. Making luminous paper	274,415	Mar. 20	1502	.....	23	1109
Trotter, William, Jr., Oyster Bay, N. Y. Making luminous paper	277,383	May 8	1075	.....	23	1818
Trousdale, Alexander, assignor of one-half to J. Trousdale, St. Louis, Mo. Mechanical device for changing reciprocating to rotary motion	272,602	Feb. 20	1285	358	23	679
Trousdale, James. (See Trousdale, Alexander, assignor.)						
Trouvelot, George H. E., assignor to himself and E. B. Welch, Cambridge, Mass. Induction-coil	273,643	Mar. 6	514	139	23	922
Trowbridge, Alfred A., Danbury, Conn. Optometer	276,732	May 1	264	67	23	1669
Trowbridge, John H., New York, N. Y. Machine for exercising and developing the muscles of mankind	282,589	Aug. 7	139	42	24	525
Trowbridge, Martin L., Greenfield, Wis. Supplementary tire for wagon-wheels	271,998	Feb. 6	509	137	23	528
Truax, John L. (See Arnold, Oliver, assignor.)						
Truax, John L., Worcester, Mass. Machine for cutting pipe	282,473	July 31	2708	745, 746	24	492
True, David, Salisbury, Mass. Boat-knee. (Reissue)	10,270	Jan. 9	917	264	23	188
True, David, Salisbury, Mass. Socket for boat-knees. (Reissue)	10,345	June 19	1591	445	23	2410
True, David, Salisbury, Mass. Carriage-wrench	271,549	Jan. 30	2143	616	23	426
True, David, Salisbury, Mass. Boat-knee	272,603	Feb. 20	1286	358	23	679
True, David, Salisbury, Mass. Carriage-wrench	279,993	June 26	1701	477	23	2435
True, David, Salisbury, Mass. Boat-knee	280,884	July 10	673	190	24	126
True, David, Salisbury, Mass. Boat-knee	286,870	Oct. 16	1370	375	25	263
True, John A., and E. Smith, Newburyport, Mass. Car-starter	290,720	Dec. 25	1721	475	25	1212
True, Oliver J., Port Clinton, and H. H. Houghton, Elyria, Ohio. Automatic switch-stand	271,999	Feb. 6	510	137	23	528
Truesdell, Frank S. (See Hull and Truesdell.)						
Trull, Benjamin R., Hominy Creek, N. C. Mechanical power	278,376	May 29	2322	635	23	2054
Truman, R. (See Beebe, Lyman C., assignor.)						
Trumble, Walter N., Greenwood, Nebr. Windmill	276,939	May 1	532	138	23	1717
Trump, John G., Richville, Mich. Cultivator	287,196	Oct. 23	1796	492	25	345
Trump, Joseph, Huntsville, Ala. Plow	283,687	Aug. 21	1466	413	24	779
Trump, Lottie A., *et al.* (See Alexander, Samuel G., assignor.)						
Trumper, Charles. (See Hildenbrand, Klein, and Trumper.)						
Truslow, James L., Jr. (See Bruns, Friedrich A., assignor.)						
Tryner, James P., Denver, Colo. Razor-guard	290,146	Dec. 11	954	270	25	1063
Tryon, Benjamin, Coxsackie, assignor to E. H. Lacombe, New York, N. Y. Ice-plow	273,192	Feb. 27	2030	571	23	818
Tryon, E. K., Jr. (See Zimmerling, Charles, assignor.)						
Tubbs & Co., C. H., *et al.* (See Pluche, James F., assignor.)						
Tubbs, George W., Phœnix, N. Y. Stove-pipe thimble	279,205	June 12	741	203	23	2260
Tubbs, Horace M., and E. T. Swartz, assignors to C. E. Hires, Philadelphia, Pa. Machine for filling bottles	288,744	Nov 20	1209	331	25	732
Tucker, Charles, Mattapan, Mass. Covered wagon	279,047	June 5	534	145	23	2214
Tucker, Columbus B., Angerona, W. Va., and J. Tucker, Coolville, Ohio. Car-coupling	271,379	Jan. 30	1928	557	23	387
Tucker, Frederick O., Hartford, Conn. Weft stop-motion for looms	273,193	Feb. 27	2031	571, 572	23	818
Tucker, Gaylon L., assignor of two-thirds to J. Battle, Detroit, Mich. Heating feed-water	287,962	Nov. 6	244	69	25	550
Tucker, George, *et al.* (See Andrews, Oscar, assignor.)						
Tucker, Irett F., Sumner, Mich. Vehicle-spring	275,439	Apr. 10	758	202	23	1364
Tucker, John, New York, N. Y. Grease-trap for sinks	285,770	Sept. 25	1980	561	24	1268
Tucker, John, New York, N. Y. Grease-trap	286,975	Oct. 16	1505	414	25	285
Tucker, Josephus. (See Tucker, Columbus B. and J.)						
Tucker, Morris W., Sumner, Mich. Vehicle-spring	272,922	Feb. 27	1709	478	23	760
Tucker, Park B., Hamilton, Bermuda. Urethral-stricture instrument	282,590	Aug. 7	140	42	24	525
Tucker, Richard H., East Orange, N. J. Electro-magnetic regulator	272,799	Feb. 20	1531	431	23	724
Tucker, Stephen D., New York, N. Y. Piston-packing	271,003	Jan. 23	1457	420	23	299
Tucker, Stephen D., New York, N. Y. Machine for trimming stereotype-plates	271,380	Jan. 30	1929	558	23	387
Tucker, Stephen D., New York, N. Y. Printing-machine	272,604	Feb. 20	1286	358, 359	23	679
Tucker, Sylvester J., and E. F. Kelly, Richmond, Va. Percentage-calculator	280,772	July 3	543	151	24	96
Tucker, William, East Brookfield, Mass. Machine for twisting auger-bits	283,304	Aug. 14	996	279, 280	24	686
Tucker, William, assignor of one-half to J. Hobbs, East Brookfield, Mass. Apparatus for casting couplings for shafts	272,800	Feb. 20	1532	431	23	724

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Tucker, William H., Clio, Tex. Stump-puller	276,506	Apr. 24	2098	583	23	1610
Tucker, William H., Washington, D. C. Support for bill-file holders	290,497	Dec. 18	1419	392, 393	25	1152
Tucker, William H., Washington, D. C. File-box	290,498	Dec. 18	1421	393, 394	25	1152
Tucker, William W., assignor to Pratt & Whitney Company, Hartford, Conn. Knurling-tool	290,619	Dec. 18	1573	432	25	1178
Tuckett, George T., Hamilton, Ontario, Canada. Tin tobacco-caddy	272,921	Feb. 27	1706	478	23	760
Tuckfield, Charles B., Salt Lake City, Utah Ter. Candlestick	283,536	Aug. 21	1284	359	24	744
Tudor, Frederic, Boston, Mass. Steam and hot-water heating apparatus	278,636	May 29	2635	721	23	2109
Tudor, Frederic, Boston, Mass. Apparatus for heating by exhaust-steam	283,537	Aug. 21	1285	360	24	744
Tufts, James W. (See Brown, John, assignor.)						
Tufts, James W. (See Gonzales, Manuel, assignor.)						
Tufts, Nathaniel, Boston, Mass. Ship-lantern	276,733	May 1	266	67	23	1670
Tufts, Nathaniel, Boston, Mass. Lantern	277,086	May 8	730	191	23	1757
Tugwell, Rufus R., Brownsville, Tenn. Cotton-press	281,210	July 10	1081	297, 298	24	198
Tull, James, Lafayette, Ind. Folding table	287,739	Oct. 30	2504	675	25	485
Tullis, John K., Glasgow, county of Lanark, Scotland. Belting	290,147	Dec. 11	954	270	25	1063
Tully, Bernard, Washington, D. C. Swing	282,934	Aug. 7	540	152, 153	24	596
Tully, T. De Quincy, assignor to Daisy Sewing Machine Company, Cleveland, Ohio. Sewing-machine	280,773	July 3	543	151	24	96
Tumey, Charles H., assignor of one-half to Hancock & Hancock, Austin, Tex. Bell-cord coupling	270,705	Jan. 16	1093	313	23	228
Tungler, Robert, Görlitz, Prussia, Germany. Heating apparatus	283,440	Aug. 21	1178	331	24	724
Tunica, Francis, Omaha, Nebr. Girder picket fence	284,687	Sept. 11	650	183	24	1020
Tunker & Ruh. (See Von Rein, Carl, assignor.)						
Tunnicliff, John C. (See Brown and Tunnicliff.)						
Tupper, Hardy E., W., and J. A., Bury township, assignors of one-half to A. and C. W. Ross, Lingwick township, Compton county, Quebec, Canada. Evaporator	271,550	Jan. 30	2144	616	23	426
Tupper, Harvey L., Rockford, Ill. Recess-plane	272,801	Feb. 20	1534	431	23	724
Tupper, John A., Salt Lake City, Utah Ter. Electric cut-off	286,158	Oct. 2	461	125	25	86
Tupper, Joseph A. (See Tupper, Hardy E., W., and J. A.)						
Tupper, William. (See Tupper, Hardy E., W., and J. A.)						
Turbiaux, Jacques E., Paris, France. Revolver	273,644	Mar. 6	516	139	23	922
Turley, Marshall, Council Bluffs, Iowa. Horse-collar. (Reissue)	10,431	Dec. 25	2105	580	25	1276
Turley, Marshall, Council Bluffs, Iowa. Nut-lock	282,688	Aug. 7	258	74	24	544
Turley, Talton B., La Mine, Mo. Animal-trap	271,952	Feb. 6	444	122	23	519
Turman, William B., Waldron, Ark. Valve-gear for steam-engines	283,538	Aug. 21	1287	360	24	744
Turnbull, D. B. (See Bokop, Henry D., assignor.)						
Turner, Alexander, Franklin, Ind. Truck for moving harvesters	276,734	May 1	267	68	23	1670
Turner, Caleb R., *et al.* (See Evans, Thomas, assignor.)						
Turner, Caleb R., Brooklyn, N. Y. Sink-cleaner	285,771	Sept. 25	1983	561	24	1268
Turner, Charles, Lynn, assignor of three-fourths to R. S. Merrill, Boston, Mass. Welt-guide for sewing-machines	273,915	Mar. 13	869	236	23	991
Turner, Charles H., *et al.* (See Strong, Levi C., assignor.)						
Turner, Charles W., Senatobia, Miss. Cotton-cleaner	275,095	Apr. 3	284	78	23	1275
Turner, Chester B., Detroit, Mich. Cut-off valve	286,747	Oct. 16	1220	329	25	236
Turner, Doulee B., Chicago, Ill. Composition to insulate, preserve, and protect wire for electrical purposes	283,044	Aug. 14	682	.....	24	628
Turner, Edward M., Knoxville, Tenn. Fruit-drier	276,202	Apr. 24	1713	474	23	1544
Turner, Edward M., Knoxville, Tenn. Oil-can pump	283,834	Aug. 28	1652	465, 466	24	823
Turner, Edward W., *et al.* (See Alfson, Andrew, assignor.)						
Turner, Frederick W., St. Albans, England. Gas-engine	289,362	Nov. 27	1954	543	25	876
Turner, George H. (See Cornelius and Turner.)						
Turner, George H., Bristol, Conn. Trunk-fastener	284,148	Aug. 28	2062	572	24	894
Turner, George P., Meadville, Mo. Corn-planter	270,350	Jan. 9	624	184	23	131
Turner, Horace. (See Cohnen, Frank, assignor.)						
Turner, Isaac P., assignor to Earl & Wilson, Troy, N. Y. Cuff	269,973	Jan. 2	178	51, 52	23	37
Turner, Isaac P., and F. S. Searle, assignors to J. K. P. Pine, Troy, N. Y. Collar	279,994	June 26	1702	478	23	2435
Turner, James C., Sterling, Kans. Shot-holder	277,384	May 8	1075	289	23	1818
Turner, James P., Davenport township, Scott county, Iowa. Onion-cultivator	280,416	July 3	94	25	24	19
Turner, John, Grosse Isle, Mich. Railway-track layer	275,096	Apr. 3	285	78	23	1275
Turner, John, Boston, Mass. Breech-loading fire-arm	287,740	Oct. 30	2505	675	25	485
Turner, John P. (See Johnson and Turner.)						
Turner, John T., assignor to himself, J. T. and L. R. Turner, Sing Sing, N. Y. Stone-dressing machine	281,211	July 10	1082	298	24	198
Turner, Jonathan T., *et al.* (See Turner, John T., assignor.)						
Turner, Leonard R., *et al.* (See Turner, John T., assignor.)						
Turner, Luther G., New York, N. Y., assignor to Turner & Seymour Manufacturing Company, Torrington, Conn. Shade-pull	280,334	June 26	2116	593	23	2509
Turner, Orran E., and F. L. Chamberlin, Cleveland, Ohio. Automatic oil-cup	290,499	Dec. 18	1422	394	25	1153
Turner, Oscar W. (See Morey, Franklin, assignor.)						
Turner, Seth, and G. B. Durkee, assignors to Thorn Wire Hedge Company, Chicago, Ill. Machine for stringing barbs upon wires	281,653	July 17	1641	448, 449	24	299
Turner & Seymour Manufacturing Company. (See Turner, Luther G., assignor.)						
Turner, Thomas G., New York, N. Y. Switch for electric lights	275,440	Apr. 10	759	202	23	1364
Turner, Thomas M., Cincinnati, Ohio. Package-carrier	270,917	Jan. 23	1349	389	23	282
Turner Truck Company. (See Turner, William H., assignor.)						
Turner, William A., assignor to J. Davol, Providence, R. I. Atomizer	276,940	May 1	533	138	23	1717
Turner, William B. (See Guernsey and Turner.)						
Turner, William B., assignor of one-half to C. Beard, New York, N. Y. Car-brake	278,833	June 5	214	63, 64	23	2159
Turner, William B., assignor of one-half to C. Beard, New York, N. Y. Automatic car-brake	278,834	June 5	216	64	23	2160
Turner, William B., assignor of one-half to C. Beard, New York, N. Y. Automatic car-brake	278,835	June 5	219	65	23	2160
Turner, William B., New York, N. Y., assignor of one-third to Torrey Automatic Brake Company, of New York. Locomotive-brake	278,471	May 29	2437	665	23	2074
Turner, William C. (See Fisher, Asahel H., assignor.)						
Turner, William H., assignor to Hadley Manufacturing Company, Indianapolis, Ind. Cover for self-binding harvesters	270,862	Jan. 16	1973	367	23	264
Turner, William H., assignor to Turner Truck Company, Indianapolis, Ind. Attachment for harvesters	284,778	Sept. 11	765	214	24	1040
Turner, William M., Pensacola, Fla. Ratchet-drill	270,516	Jan. 9	847	247	23	175

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Turney, David B., Nebo, Ark. Broom	288,959	Nov. 20	1465	405	25	779
Turney, William S. (See Long and Turney.)						
Turpie Brothers. (See Moore, James C., assignor.)						
Turpin, Thomas B. (See George and Turpin.)						
Turver, William W., Parkdale, Ontario, Canada. Pessary	288,140	Nov. 6	428	120	25	582
Tustin, William L., San Francisco, Cal. Ore-pulverizing mill	288,745	Nov. 20	1210	331	25	732
Tuttle, Hosmer, Cedar Rapids, Iowa. Straw-band grain-binder	280,335	June 26	2117	593, 594, 595	23	2509
Tuttle, John W., Watertown, Mass. Attaching device for tags	283,169	Aug. 14	889	231	24	653
Tuttle, Richard T. (See Madson, Cornelius, assignor.)						
Tuttle, Richard T., *et al.* (See Benedict, Richard W., assignor.)						
Tuttle, Richard T., *et al.* (See Sweet, Lebbeus, assignor.)						
Tuttle, William, Dowagiac, Mich. Chill for chilling metal	272,497	Feb. 20	1153	324	23	656
Tverskoy, Nicholas N., assignor of one-half to P. P. Weimer, St. Petersburg, Russia. Rotary engine and pump	273,916	Mar. 13	870	236, 237	23	991
Tweed, Charles H., Allegheny, Pa. Fire-escape	284,688	Sept. 11	651	183	24	1020
Tweedale, Samuel, Accrington, county of Lancaster, England. Machine for spinning fibers	283,045	Aug. 14	883	191, 192	24	698
Tweeddale, William, Brooklyn, N. Y. Water-closet	279,048	June 5	535	146	23	2214
Tweedy, Edmund, Danbury, Conn. Hat-curling machine	281,321	July 17	1231	340, 341	24	230
Tweedy, Edmund, Danbury, Conn. Device for holding hat-bodies upon expansible hat-blocks	283,363	Aug. 14	1081	304	24	701
Tweedy, Edmund, Danbury, Conn. Hat-curling machine	283,726	Aug. 21	1515	427, 428	24	788
Tweedy, John, Vernon, Ind. Churn	282,935	Aug. 7	542	153	24	597
Twigge, John W. (See Porter, John H., assignor.)						
Twining, George W. (See Brastow and Twining.)						
Twombly, Frank S., Barton Landing, Vt. Carriage-driving detector	280,535	July 3	239	64	24	43
Twombley, O., *et al.* (See Huse, Warren D., assignor.)						
Tyack, Henry, Grass Valley, Cal. Baling-press	273,407	Mar. 6	217	58, 59	23	870
Tyack, Henry, Grass Valley, Cal. Wine and cider press	290,653	Dec. 18	1690	445, 446	25	1186
Tylee, Felix, Cleveland, Ohio. Heating-furnace	274,676	Mar. 27	1853	516	23	1176
Tyler, Aaron P., Chicago, Ill., assignor to J. H. Foote, New York, N. Y. Mute for wind musical instruments	285,183	Sept. 18	1967	355	24	1135
Tyler, Charles D., Jr. (See Creagan, John, assignor.)						
Tyler, Charles H., St. Louis, Mo. Covering for tables, &c	279,110	June 5	631	171	23	2230
Tyler, Charles H., St. Louis, Mo. Office-desk	287,068	Oct. 23	1633	449	25	315
Tyler, Merrill A., Rockland, Mass. Heel-trimming machine	282,591	Aug. 7	141	42	24	595
Tymeson, Eugene. (See Skinner and Tymeson.)						
Tynan, Joseph E., Paterson, N. J. Silk-throwing machine	275,548	Apr. 10	893	241, 242	23	1387
Tynan, Joseph E., Paterson, N. J. Bobbin-spindle and support therefor	279,674	June 19	1396	368	23	2363
Tyrrell, Edward, Cincinnati, Ohio. Pencil-holder	290,291	Dec. 18	1139	320	25	1103
Tyson, Bryan, Washington, D. C. Amalgamator and concentrator	270,156	Jan. 2	386	112, 113	23	78
Uchtman, George. (See Niemiller, Charles, assignor.)						
Udell, Calvin G., North Indianapolis, Ind. Show-stand	290,371	Dec. 18	1939	349	25	1192
Udell, Calvin G., North Indianapolis, Ind. Folding table	290,500	Dec. 18	1423	394	25	1153
Udell, Calvin G., North Indianapolis, Ind. Clothes-drier	290,501	Dec. 18	1425	395	25	1153
Uehling, Edward A., Sharpsville, Pa. Gas-seal for blast-furnaces	273,194	Feb. 27	2033	572	23	818
Ufer, Friedrich A., Dresden, Saxony, Germany. Folding, bath, and invalid chair	286,871	Oct. 16	1371	376	25	963
Ufford, Stephen R. S., Batavia, assignor of one-half to J. M. Innes, Aurora, Ill. Pillow-sham holder	288,515	Nov. 13	990	252	25	675
Uhler, Clarence H., Lebanon, Pa., assignor of one-half to J. C. Uhler, New York, N. Y. Blank for checks and other negotiable papers	286,159	Oct. 2	462	126	25	86
Uhler, J. Clement. (See Uhler, Clarence H., assignor.)						
Uhlig, Richard W., assignor to J. Reckendorfer, New York, N. Y. Lead or crayon holder	276,543	Apr. 24	2144	596	23	1617
Uhlinger, William P., Philadelphia, Pa. Loom-shuttle	288,602	Nov. 13	1025	281	25	695
Ujhely, Heinrich, Vienna, Austria-Hungary. Decolorizing and deodorizing heavy mineral oils	289,788	Dec. 4	515	.....	25	975
Ulrich, Frederick, Peru, Ind. Wagon-axle	278,755	June 5	99	28	23	2140
Ulrich, Justus, Pfungstadt, Germany, assignor to A. Schwarz, New York, N. Y. Continuous malt-kiln	271,551	Jan. 30	2145	617, 618	23	496
Ulrich, William, Rock Falls, Ill. Fire-escape	275,962	Apr. 17	1413	390	23	1485
Ulrich, William J., East Hartford, Conn. Vehicle-seat	279,228	June 12	835	231	23	2276
Ulrick, Charles E., and T. Williams, Philadelphia, Pa. Automatic cylinder-cock	270,266	Jan. 9	519	152	23	111
Ulrick, Tomey D. (See Snyder, Stough, and Ulrick.)						
Ulsamann, Hermann, Königschütte, Prussia, Germany, assignor to E. Cooper, New York, N. Y. Manufacture of furnace-linings	273,917	Mar. 13	873	.....	23	991
Umbdenstock, Michael, Chicago, Ill. Rack for advertising-cards	272,000	Feb. 6	511	137	23	528
Umberger, Everett W. (See Heldreth and Umberger.)						
Umpleby, William H., Trenton, N. J. Water-closet	280,417	July 3	95	25	24	19
Unangst, Christopher T., Swartswood, N. J. Portable horse-power for operating fire-engines	287,891	Nov. 6	128	37, 38	25	530
Unckrich, Ferdinand F. P., assignor to O. Jettinger, Sandusky, Ohio. Die for making hoes	278,203	May 22	2070	570	23	2002
Underground Electric Cable Company. (See McMahon, William and T. G., assignors.)						
Underhill, Franklin. (See Harrison and Underhill.)						
Underwood, Flavius J., North Springfield, Mo. Rotary colter	290,148	Dec. 11	955	270	25	1063
Underwood, Frank M. (See Ackerman, Mitchell, and Underwood.)						
Underwood, Harold G., *et al.* (See Rintelman, August, assignor.)						
Underwood, John R., and G. W. Daniels, Nash County, N. C. Pinion-lifter or apparatus for gearing and ungearing mills and other machinery	272,605	Feb. 20	1289	359	23	680
Underwood, Wells A. (See McMillan, Duncan, assignor.)						
Underwood, Wells A., *et al.* (See Simmons, Thomas A., assignor.) (Reissue.)						
Underwood, Wells A., Wooster, Ohio. Box-loop for hame-tugs	277,434	May 8	1137	306	23	1898
Unexcelled Fireworks Company. (See Ritchel, Charles F., assignor.)						
Ungemach, Theobald F., Zanesville, Ohio. Sewing-machine shuttle	271,552	Jan. 30	2148	618	23	496
Ungemach, Theobald F., and E. Oshe, Zanesville, Ohio. Attachment for faucets	274,996	Apr. 3	142	40	23	1250
Unger, Julius, Cannstadt, and S. O. Eisele, Heuchlingen, Germany; said Eisele assignor to said Unger. Galvanic battery	290,149	Dec. 11	956	271	25	1063
Unger, Julius, Cannstadt, and S. O. Eisele, Heuchlingen, Germany; said Eisele assignor to said Unger. Electric lamp	290,150	Dec. 11	958	271	25	1064

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Union Cabinet and Paper Company. (See Eaton, Benjamin F., assignor.)						
Union Carpet Lining Company. (See Farnham, Thomas H., assignor.)						
Union Fastening Company. (See Bacon, Henry S., assignor.)						
Union Fastening Company. (See Eppler, Andrew, Jr., assignor.)						
Union Hardware Company. (See Langdon, James E., assignor.)						
Union Hardware Company. (See Morris, William J., assignor.)						
Union Hardware Manufacturing Company. (See Gibbons, John, assignor.)						
Union Metallic Cartridge Company. (See Orcutt and Richards, assignors.)						
Union Mills Paper Manufacturing Company. (See Fisher and Solliday, assignors.)						
Union Paper Bag Machine Company. (See House, Henry A., assignor.)						
Union Paper Bag Machine Company. (See Stilwell, Charles B., assignor.)						
Union Paper Bag Machine Company. (See Stocking, Edgar B., assignor.)						
Union Switch and Signal Company. (See Gassett, Oscar, assignor.)						
Union Switch and Signal Company. (See Gassett and Fisher, assignors.)						
Union Switch and Signal Company. (See Guerber, Frederick S., assignor.)						
Union Switch and Signal Company. (See Hendrickson, Stephen C., assignor.)						
Union Twist Drill Company. (See Wheeler, Henry F., assignor.)						
Union Wire Mattress Company. (See Powers, David J., assignor.)						
United Gas Improvement Company. (See Hanlon, John, assignor.)						
United Gas Improvement Company. (See Hanlon and Leadley, assignors.)						
United Gas Improvement Company. (See Hanlon, Leadley, and Gibbs, assignors.)						
United Gas Improvement Company. (See Leadley and Hanlon, assignors.)						
United Gas Improvement Company of Pennsylvania. (See Gibbs and McClintock, assignors.)						
United States Chemical Company. (See Lewis, George T., assignor.)						
United States Dyeing Company. (See Vaughan, Henry W., assignor.)						
United States Electric Lighting Company. (See Maxim, Hiram S., assignor.)						
United States Electric Lighting Company. (See Olmsted, Joseph, assignor.)						
United States Electric Lighting Company. (See Weston, Edward, assignor.)						
United States Electric Lighting Company. (See Weston, Edward, assignor.) (Reissue.)						
United States Improvement Company. (See Johnston, James J., assignor.)						
United States Lock Nut Company. (See Eltonhead, William B., assignor.)						
United States Metallic Packing Company. (See Monroe, Edwin P., assignor.)						
United States Pneumatic Copying Press Company. (See Sammons, Jacob S., assignor.)						
United States Spring Car-Motor Construction Company. (See Stites, Steel, and Austin, assignors.)						
United States Standard Billiard Table Company. (See De Gaetano, Stephen, assignor.) (Reissue.)						
United States Standard Billiard Table Company. (See Wiggins, William H., assignor.)						
United States Wind Engine and Pump Company. (See Haley, George S. and C. H., assignors.)						
United States Wind Engine and Pump Company. (See Perry, Thomas O., assignor.)						
Universal Button Hole Attachment Company. (See Egge, Frederick, assignor.)						
Universal Heel Burnishing Machine Company. (See Beaudry, Zotique, assignor.)						
Unthank, Daniel, assignor to Unthank Plow Company, Indianapolis, Ind. Cultivator	278,672	May 29	2678	733 734	23	2116
Unthank Plow Company. (See Unthank, Daniel, assignor.)						
Unzicker, Herman, Chicago, Ill. Automatic friction-clutch	284,689	Sept. 11	652	184	24	1020
Unzicker, Otto, assignor to A. Shoeninger, Chicago, Ill. Canopy-standard for vehicles	270,517	Jan. 9	849	247	23	176
Upham, Andrew J. (See Ellwood and Upham.)						
Upham, Andrew J., Sycamore, Ill. Wheelbarrow	285,323	Sept. 18	1421	401	24	1164
Upham, Andrew J., Sterling, Ill., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Barbed-metal-strip fencing	280,100	June 26	1835	517	23	2459
Upham, Andrew J., Sterling, Ill., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass., and I. L. Ellwood, De Kalb, Ill. Barbed wire	286,507	Oct. 9	906	245	25	175
Upham, Andrew J., Sycamore, Ill., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass., and I. L. Ellwood, De Kalb, Ill. Barbed metal-strip fencing	272,923	Feb. 27	1710	478	23	761
Upham, Andrew J., Sycamore, assignor to H. Ellwood, De Kalb, Ill. Barbed-wire fence	284,261	Sept. 4	130	36	24	927
Upham, Artemas B., assignor of one-half to H. W. Wells, Peoria, Ill. Combined measure and scale	290,945	Dec. 25	2004	552	25	1260
Upham, Artemas B., assignor of one-half to H. W. Wells and R. A. Goldsborough, Peoria, Ill. Store-service system	284,989	Sept. 11	1014	285	24	1065
Upson Nut Company. (See Edwards, William B., assignor.)						
Upson, Norton L., *et al.* (See Stoddard, Oscar, assignor.)						
Upton, Charles H., Minneapolis, Minn. Reversing-valve for steam-engines	283,046	Aug. 14	684	192	24	629
Upton, Charles S., Spencerport, N. Y. Rope and cord fastening	277,632	May 15	1381	372	23	1874
Upton, Charles S., Spencerport, N. Y. Halter	283,539	Aug. 21	1288	360	24	744
Upton, George. (See Rathbun, Charles B., assignor.)						
Urbahn, Alwill, Paterson, N. J., assignor of one-half to A. G. Jennings, Brooklyn, N. Y. Figured fabric	289,582	Dec. 4	266	74	25	934
Urbahn, Alwill, Paterson, N. J., assignor of one-half to A. G. Jennings, Brooklyn, N. Y. Woven fabric and loom for weaving the same	289,731	Dec. 4	452	126 127	25	965
Urbahn, Alwill, assignor of one-half to J. Walder, Paterson, N. J. Loom for making French harness	289,872	Dec. 11	626	174 175	25	1003
Urban, George, Jr. (See Ortman, Barnim F., assignor.)						
Urban, Jacob, Racine, Wis. Color	277,633	May 15	1381	.....	23	1875
Uren, Edward W., *et al.* (See Binnie, Alexander, assignor.)						
Uren, John W., *et al.* (See Binnie, Alexander, assignor.)						
Uren, Andrew. (See Ivey and Uren.)						
Uren, Richard, Houghton, Mich. Rolling-mill	274,856	Mar. 27	2057	573	23	1212
Urie, Thomas, assignor of one-third to F. S. Hall, Boulder, Colo. Weather-strip	277,858	May 15	1640	447	23	1922
Urie, Thomas, assignor of one-third to F. S. Hall, Boulder, Colo. Gate	286,092	Oct. 2	383	106	25	70
Urner, Lewis H., Nevada, Mo. Harness-pad press	283,305	Aug. 14	997	280	24	686
Urquhart, Samuel G. A., San Francisco, Cal. Car-coupling	279,675	June 19	1327	368 369	23	2363
Urwick, Henry, Westwood House, St. John's Hill, Wandsworth, county of Surrey, England. Glove	276,310	Apr. 24	1844	513 514	23	1566
Usher, Arthur P. (See Faas, Gustav A., assignor.)						
Ussing, Nicholas, *et al.* (See Nicolaisen, Ebenhardt, assignor.)						
Ustick, Stephen, assignor of one-third to T. J. Bewley, Philadelphia, Pa. Inkstand	280,418	July 3	95	26	24	19
Ustick, Stephen, assignor of one-third to T. J. Bewley, Philadelphia, Pa. Pen-rack	282,936	Aug. 7	543	153	24	597
Utley, Thomas, Boston, Mass. Fittings for carrying cattle on vessels	286,976	Oct. 16	1507	414	25	286
Utter, Charles C., Saginaw, Mich. Tube-clamp for oil-wells	273,195	Feb. 27	2034	572	23	818
Utter, Morris L., Rockford, Ill. Cultivator	276,984	May 1	585	154	23	1726
Utz, Emil, Holstead, Kans. Car-starter	279,049	June 5	537	146	23	2215

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Utz, Emil, and T. Sprick, Odessa, Russia. Car-starter	272,358	Feb. 13	957	266, 267	23	617
Uyrich, Philipp, Minneapolis, Minn. Barrel-lining	290,721	Dec. 25	1722	475	25	1212
Vacheresse, Jules, East New York, N. Y. Coffee or tea pot	272,802	Feb. 20	1535	432	23	724
Vadersen, William, and F. L. Trader, Elizabeth, N. J. Hydrant	286,508	Oct. 9	907	245	25	175
Vail, Alonzo V. C. (See Sliter and Bazzett, assignors.)						
Vail, Jonathan H., assignor to Bergmann & Co., New York, N. Y. Electrical stand-lamp	286,350	Oct. 9	724	194	25	141
Vail, Joseph C., Maple's Mill, Ill. Horse-tail holder	289,873	Dec. 11	629	175	25	1003
Vail, Theodore N., Boston, Mass. Telephone-exchange signaling circuit and apparatus	274,857	Mar. 27	2058	574	23	1213
Vail, Theodore N., Boston, Mass. Automatic signaling apparatus for telephone-circuits	275,296	Apr. 3	526	144	23	1315
Vail, Theodore N., Boston, Mass. Telegraph and telephone line	279,289	June 12	835	232	23	2276
Vail, Thomas C., Topeka, Kans. Constructing picture-frames	286,872	Oct. 16	1373	376	25	263
Vaill, Edward W., Worcester, Mass. Furniture	289,583	Dec. 4	266	75	25	934
Vale, William, Birmingham, county of Warwick, England. Fountain pen-holder	290,820	Dec. 25	1848	511, 512	25	1234
Valentine, David H., Brooklyn, N. Y. Preserving and protecting piles	282,807	Aug. 7	397	112	24	570
Valentine, E. K. (See Tichenor, Anson C., assignor.)						
Valentine, George S., Brooklyn, N. Y. Process of and apparatus for preserving wood by impregnation to given heights	285,067	Sept. 18	1148	321	24	1114
Valentine, Leander, Rushford, Minn. Bag-holder	289,181	Nov. 27	1736	483	25	834
Valentine, William, Redding, Cal. Tire-upsetter	278,836	June 5	223	66	23	2161
Valentine, William M., Glen Cove, N. Y. Dust-pan	279,676	June 19	1328	369	23	2363
Valero, Jose, Havana, Cuba. Thread-cutter for sewing-machines	287,197	Oct. 23	1797	493	25	345
Vallentine, Arthur. (See Hyde and Vallentine.)						
Valley, John N. (See Cove, Joseph T. C., assignor.)						
Valley, John N., Jersey City, N. J. Step-ladder	279,893	June 19	1575	441	23	2407
Valley Machine Company. (See Russell, John W., assignor.)						
Van Aernam, Thomas, Albany, N. Y. Wear-plate for wagon-bolsters	270,918	Jan. 23	1350	389	23	283
Van Allen, Charles A., assignor to Van Allen Manufacturing Company, Chicago, Ill. Back-stop for sewing-machines	287,484	Oct. 30	2156	586	25	419
Van Allen, Charles A., assignor to Van Allen Manufacturing Company, Chicago, Ill. Spring for keeping pitmen off dead-centers	287,485	Oct. 30	2158	586	25	419
Van Allen, George W., New York, N. Y. Delivery mechanism for printing-presses	270,267	Jan. 9	520	152, 153	23	112
Van Allen, George W., assignor to M. B. Brown, New York, N. Y. Self-closing hatch-way	278,204	May 22	2071	571	23	2002
Van Allen Manufacturing Company. (See Van Allen, Charles A., assignor.)						
Van Alstyne, Lawrence, Sharon, Conn. Level	287,342	Oct. 23	1976	540	25	378
Van Altena, Henry, Milwaukee, Wis. Fishing-tackle	279,206	June 12	742	203	23	2260
Van Amringe, Benjamin F. (See Cumming and Van Amringe.)						
Van Amringe, William B., Providence, R. I. Ticket-holder	287,486	Oct. 30	2160	586	25	420
Van Anden, William, New York, N. Y. Carriage-spring	271,053	Feb. 6	445	122	23	519
Van Anden, William, New York, N. Y. Carriage-spring	290,502	Dec. 18	1425	395	25	1153
Van Auken, Miner, Utica, N. Y. Dumping-wagon	276,098	Apr. 17	1580	436	23	1513
Van Baar, Rudolph, New York, N. Y. Paper box	278,837	June 5	224	66	23	2161
Van Benschoten, Samuel, Brooklyn, N. Y., and H. H. Johnson, Hackensack, N. J. Electric annunciator and fire-alarm	282,016	July 24	2111	570	24	385
Van Benthuysen, Henry B., Phœnixville, Pa. Gas-generating furnace	280,691	July 3	423	119, 120	24	75
Van Brunt, Daniel C., Horicon, Wis. Cultivator	290,263	June 26	2028	569	23	2492
Van Brunt, Daniel C., Horicon, Wis. Cultivator-beam	284,093	Aug. 28	1980	553	24	882
Van Bunnen, Louis, Brussels, Belgium. Watchman's time-detector	290,946	Dec. 25	2005	552, 553	25	1260
Van Campen, Harry D., Belmont, N. Y. Blasting out stumps	270,351	Jan. 9	624	184	23	132
Van Campen, Harry D., Belmont, assignor to B. Alford, Olean, N. Y. Explosive compound	288,516	Nov. 13	921	.....	25	675
Van Campen, Johnson & Hance. (See Johnson, Frederick H., assignor.)						
Van Campen, Savillion, New York, N. Y. Box or package	290,819	Dec. 25	1848	511	25	1234
Van Campen, Savillion, assignor of one-half to Hastings, Todd & Schanck, New York, N. Y. Fan	279,050	June 5	538	147	23	2215
Van Choate, Silvanus F., New York, N. Y. Electric-arc lamp	274,997	Apr. 3	143	40	23	1250
Van Choate, Silvanus F., New York, N. Y. Dynamo-electric machine	286,241	Oct. 9	500	154	25	113
Van Choate, Silvanus F., New York, N. Y. Dynamo-electric machine	286,242	Oct. 9	562	154, 155, 156	25	113
Van Choate, Silvanus F., Boston, Mass. Electro-magnetic motor	286,873	Oct. 16	1374	377	25	263
Van Depoele, Charles J., Chicago, Ill. Device for controlling electrical currents	270,352	Jan. 9	625	185	23	132
Van Depoele, Charles J., Chicago, Ill. Dynamo-electric machine	275,549	Apr. 10	895	242	23	1387
Van Depoele, Charles J., Chicago, Ill. Storage or secondary battery	276,099	Apr. 17	1592	436	23	1513
Van Depoele, Charles J., Chicago, Ill. Secondary electric battery	282,414	July 31	2633	.....	24	480
Van Depoele, Charles J., Chicago, Ill. Retort for carbonizing incandescents	284,779	Sept. 11	766	214	24	1040
Van Depoele, Charles J., Chicago, Ill. Device for adjusting the brushes of dynamo-electric machines	285,527	Sept. 25	1671	471	24	1214
Van Depoele, Charles J., Chicago, Ill. Regulator for electric apparatus	285,528	Sept. 25	1673	471	24	1214
Van Depoele, Charles J., Chicago, Ill. Secondary battery	285,529	Sept. 25	1674	.....	24	1215
Van Depoele, Charles J., Chicago, Ill. Electric motor	285,857	Oct. 2	97	29	25	19
Van Depoele, Charles J., Chicago, Ill. Electric railway	285,858	Oct. 2	98	29	25	19
Van Depoele, Charles J., Chicago, Ill. Automatic electric-circuit changer	285,859	Oct. 2	100	29	25	20
Van Depoele, Charles J., Chicago, Ill. Electric lamp	286,093	Oct. 2	384	106	25	70
Van Depoele, Charles J., Chicago, Ill. Electric-arc lamp	286,094	Oct. 2	387	106, 107	25	71
Van Depoele, Charles J., Chicago, Ill. Regulator for dynamo-electric machines	287,343	Oct. 23	1977	540	25	378
Van Depoele, Charles J., Chicago, Ill. Electrode for electric-arc lamps	287,344	Oct. 23	1979	540	25	379
Van Depoele, Charles J., Chicago, Ill. Safety-switch for dynamo-electric machines	287,345	Oct. 23	1980	541	25	379
Van Depoele, Charles J., Chicago, Ill. Insulating material	287,346	Oct. 23	1982	541	25	379
Van Depoele, Charles J., Chicago, Ill. System of generating and distributing electric currents	287,347	Oct. 23	1983	541	25	379
Van Depoele, Charles J., Chicago, Ill. Safety cut-out for electric lamps	288,682	Nov. 20	1128	310	25	718
Van Deusen, C. R. (See Morand, William J., assignor.)						
Van Deusen, Cary, Hudson, N. Y. Car-coupling	278,838	June 5	225	66	23	2162
Van Deusen & Son, I. S. (See Morand, William J., assignor.)						
Van Doren, J. B., *et al.* (See Packham, Frank R., assignor.)						
Van Dorn, William T., Lincoln, Nebr. Car-coupling	271,553	Jan. 30	2148	618	23	427
Van Dusen, Charles, New Albany, Ind., assignor of one-half to William L. Breyfogle, Louisville, Ky. Automatic car-brake	284,690	Sept. 11	653	184	24	1021

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Van Dyke, John W., Brooklyn, N. Y. Steam-generator	276,735	May 1	268	68	23	1670
Van Dyke, John W., Brooklyn, N. Y. Steam-generator	289,182	Nov. 27	1737	483	25	834
Van Dyke, John W., Brooklyn, N. Y. Steam-generator	289,183	Nov. 27	1739	483, 484	25	835
Van Dyke, John W., Brooklyn, N. Y. Steam-boiler	289,322	Nov. 27	1905	529, 530	25	867
Van Dyke, John W., Brooklyn, N. Y. Steam-generator	290,503	Dec. 18	1427	395	25	1153
Van Gelder, Pieter, Sowerby Bridge, county of York, England. Grain separator and grader.	281,808	July 24	1859	508	24	343
Van Gelder, Pieter, Sowerby Bridge, county of York, England. Grain-separator	282,415	July 31	2634	722, 723	24	480
Van Gorder, George L. (See Hazen and Van Gorder.)						
Van Haagen, Claus, Collegeville, Pa. Finger-board for musical instruments	281,584	July 17	1553	425	24	284
Van Hagen, Isaac, assignor to Adams & Westlake Manufacturing Company, Chicago, Ill. Stove-board cover	271,163	Jan. 23	1649	474	23	331
Van Hagen, Isaac, assignor to Adams & Westlake Manufacturing Company, Chicago, Ill. Process of and apparatus for manufacturing stove-boards	288,892	Nov. 20	1383	382	25	764
Van Hagen, Isaac, assignor to Adams & Westlake Manufacturing Company, Chicago, Ill. Gas-stove	288,893	Nov. 20	1385	382	25	764
Van Hoevenbergh, Henry, Elizabeth, N. J. Electric lamp-lighting device	284,516	Sept. 4	438	124	24	978
Van Hoevenbergh, Henry, Elizabeth, N. J. Electric lighting	290,292	Dec. 18	1140	320	25	1103
Van Hoevenbergh, Henry, Elizabeth, N. J. Printing-telegraph	285,710	Sept. 25	1892	538	24	1255
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Printing-telegraph	274,416	Mar. 20	1503	414	23	1109
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Dynamo-telegraphy	274,417	Mar. 20	1505	414	23	1109
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to R. S. Waring, Pittsburg, Pa. Testing lead-covered cables	284,094	Aug. 28	1987	553	24	882
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Printing-telegraph	285,709	Sept. 25	1886	537, 538	24	1254
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Printing-telegraph	286,977	Oct. 16	1508	415	25	286
Van Horn, William, Piqua, Ohio. Grain-binder	273,325	Mar. 6	106	31, 32	23	852
Van Houten, Abram, deceased, E. W. Van Houten, Newark, and C. Van Houten, Belleville, N. J., administrators. Safety-pin	272,001	Feb. 6	513	137	23	529
Van Houten, Cornelius, *et al.*, administrators. (See Van Houten, Abram.)						
Van Houten, Eleanor W., *et al.*, administrators. (See Van Houten, Abram.)						
Van Hutton, William B., assignor of one-fourth to J. New, Brenham, Tex. Folding packing-case	274,418	Mar. 20	1508	415	23	1109
Van Kersen, James J., Kalamazoo, Mich. Sirup measure and funnel	272,924	Feb. 27	1710	478	23	761
Van Keuren, John A., assignor of one-half to L. N. Van Keuren, Bridgeport, Conn. Water-proof preservative blacking	272,606	Feb. 20	1290	.....	23	680
Van Keuren, Louis N. (See Van Keuren, John A., assignor.)						
Van Liew, Dennis F. (See Bugbee, Calvin S., assignor.)						
Van Liew, Dennis F., Aurora, Ill. Catch for grain-car doors	278,377	May 29	2323	635	23	2054
Van Meter, Alvin C. (See Mills, William N., assignor.)						
Van Ness, Samuel, *et al.* (See Mac Mahon, Michael, assignor.)						
Van Nostrand, George, Gloversville, N. Y. Saw-gummer	290,947	Dec. 25	2007	553	25	1260
Van Ostrand, Thomas, Kinsley, Kans. Riding-harrow	273,196	Feb. 27	2035	573	23	819
Van Patin, Emery. (See Wood, Myron G., assignor.)						
Van Patten, John, Washington, D. C. Dredging-machine	284,095	Aug. 28	1989	554, 555	24	882
Van Patten, Silas, Duanesburg, N. Y. Grappling-hook for barrels, &c	270,158	Jan. 2	390	113	23	79
Van Patten, Silas, Duanesburg, N. Y. Apparatus for loading and unloading wagons	270,159	Jan. 2	391	113	23	79
Van Pelt, Gilbert S., New York, N. Y. Coupon-shears	274,998	Apr. 3	144	41	23	1250
Van Riper, George P., Paterson, N. J. Bobbin for silk-spinning machines	278,673	May 29	2680	734	23	2117
Van Sickel, Charles G. (See Doherty and Van Sickel.)						
Van Sickle, George W., assignor to J. H. Bramhall and N. S. Hammack, Burlington, Iowa. Tongueless cultivator	271,164	Jan. 23	1649	474	23	331
Van Slyke, James M., Ottawa, Kans., assignor of two-thirds to J. E. Winn, Jackson, and C. J. Gale, Corunna, Mich. Bolting-reel	280,692	July 3	425	120	24	76
Van Stavoren, Samuel J. (See Edwards and Van Stavoren.)						
Van Tassel, George W., Girard, assignor of one-half to F. X. Lommer, Miles Grove, Pa. Strainer for eaves-spouts	289,473	Dec. 4	123	35	25	908
Van Tassel, Matthew, Brooklyn, N. Y. Brake-rod for cars	271,381	Jan. 30	1931	558	23	388
Van Trump, Daniel, Norborne, assignor to himself and S. C. Danforth, Watson, Mo. Fruit step-ladder	285,369	Sept. 18	1479	416	24	1173
Van Vechten, Orville R., Brooklyn, N. Y. Sewing-machine	272,104	Feb. 13	653	178	23	565
Van Vleck, Volkert, New York, N. Y. Dental plate	287,199	Oct. 23	1799	493	25	345
Van Vliet, Warren R., East Stroudsburg, Pa. Cover for fruit-jars	275,793	Apr. 10	1206	330	23	1440
Van Wagenen, Henry G., Monroe, Wis. Electric time-signaling device	285,088	Sept. 18	1150	321	24	1115
Van Wagoner & Williams. (See Williams, William H., assignor.)						
Van Wie, Byron, and J. Taylor, Troy, N. Y. Car-brake	289,474	Dec. 4	124	35	25	908
Van Wie, Peter G., Cleveland, Ohio. Straight-way valve	279,617	June 19	1251	347	23	2351
Van Wie, Peter G., Cleveland, Ohio. Straight-way valve	286,656	Oct. 16	1102	297	25	216
Van Winkle, Garrett, Avon, Ill., assignor to J. W. Penfield, Willoughby, Ohio. Brick and tile machine	276,544	Apr. 24	2145	597	23	1617
Van Winkle, George H., Hornellsville, N. Y. Locking-latch	276,507	Apr. 24	2098	583	23	1610
Van Winkle, Nathaniel H., New York, N. Y. Bed-lounge	272,991	Feb. 27	1784	500	23	773
Van Wormer & Co., J. (See Van Wormer, Jasper, assignor.)						
Van Wormer, Jasper, assignor to J. Van Wormer & Co., Albany, N. Y. Parlor heating-stove	274,677	Mar. 27	1854	516	23	1177
Van Wormer, Matthew, Melrose, Mass. Dumping-car	284,691	Sept. 11	655	184, 185	24	1021
Van Zandt, George, Oak Park, Ill. Hand-stamp	288,385	Nov. 13	761	205	25	647
Van Zandt, George, Ravenswood, Ill. Dating-box for self-inking hand-stamps	289,475	Dec. 4	125	36	25	909
Van Zandt, Robert S., Brooklyn, N. Y., assignor of one-half to G. Boyd, Plainfield, N. J. Ash-sifter	271,751	Feb. 6	201	56	23	475
Vance, Emily F., Gallipolis, Ohio. Folding cot	289,584	Dec. 4	267	75	25	934
Vance, James R., and S. D. Parker, Geneva, N. Y. Steam-generator	282,808	Aug. 7	398	113	24	570
Vance, John D., assignor of one-half to J. J. Le Beau, Cincinnati, Ohio. Car-coupling	279,845	June 19	1518	425	23	2397
Vance, John M., Eureka, Cal. Crank-handle for lifting-jacks	287,198	Oct. 23	1798	493	25	345
Vance, Samuel B. H., and C. H. Hinds, New York, N. Y. Combined gas and electric light fixture	290,152	Dec. 11	960	271	25	1064
Vance, William W., assignor of one-half to F. Y. Robertson, Kearney, Nebr. Device for holding dental drills on whetstones	289,472	Dec. 4	122	35	25	908

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Vandaworker, James B. (See Freeman, Thomas R., assignor.)						
Van der Linden, Dirk, Hoorn, Netherlands. Car-brake	289,943	Dec. 11	707	200	25	1018
Vander Voet, Cornelius, *et al.* (See Carr, William, assignor.)						
Vander Weyde, Peter H., assignor to C. A. Cheever, trustee, New York, N. Y. Apparatus for cooling the armatures of dynamo-electric machines	270,518	Jan. 9	849	247	23	176
Vanderbilt, Jacob E., Brooklyn, N. Y. Collar-button	271,954	Feb. 6	447	122	23	519
Vanderbilt, Jacob E., Brooklyn, N. Y. Necktie or scarf holder	287,594	Oct. 30	2311	625	25	449
Vanderburgh, John K., Marshfield, Oreg. Separating the sediments, &c., from the saccharine juice of sorghum	275,963	Apr. 17	1414	390	23	1485
Vanderhoof, Henry T., assignor, by mesne assignments, to Hamilton Lead Bath Company, New York, N. Y. Amalgamator	283,540	Aug. 21	1289	360, 361	24	745
Vandervoort, Charles F., Corpus Christi, Tex. Blind-stop	279,111	June 5	632	171	23	2230
Vandervoort, John A., Clarksville, Ohio. Washing-machine	280,973	July 10	788	218	24	145
Vandeventer & Horne. (See Vandeventer, Jacob H., assignor.)						
Vandeventer, Jacob H., Brooklyn, assignor to Vandeventer & Horne, New York, N. Y. Name-plate for marking carpets	290,151	Dec. 11	959	271	25	1064
Vanduzen, Benjamin C., Cincinnati, Ohio. Elevator-gate	288,383	Nov. 13	752	204	25	646
Vanduzen, Benjamin C., Cincinnati, Ohio. Steam-pump	288,384	Nov. 13	753	205	25	646
Vanduzen, Ezra W., Newport, Ky. Boiler-furnace	270,157	Jan. 2	389	113	23	79
Vanduzen, Ezra W., Newport, Ky. Steam-boiler furnace	278,637	May 29	2638	721	23	2109
Vanell, Frank, Vincennes, Ind. Railway-switch	279,509	June 19	1126	312	23	2321
Vankeerberghen, Victor, Brussels, Belgium. Automatic fire-extinguisher	272,803	Feb. 20	1536	432	23	725
Vanneman, William C. (See Starr and Vanneman.)						
Vanorman, Oliver, Racine, Wis. Buckboard-wagon	279,894	June 19	1576	441	23	2408
Vanorman, Oliver, assignor of one-half to Hurlbut Manufacturing Company, Racine, Wis. Double-tree	279,846	June 19	1519	425	23	2397
Vansize, William B., Brooklyn, N. Y. Fire-alarm or district telegraph	280,536	July 3	239	64, 65	24	43
Vansize, William B., Brooklyn, and C. L. Buckingham, assignors to Western Union Telegraph Company, New York, N. Y. Printing-telegraph	290,613	Dec. 18	1573	432	25	1178
Vanston, John, Durango, Colo. Sawing-machine	274,419	Mar. 20	1509	415	23	1110
Vanstone, Samuel, assignor of one-half to C. H. Sawyer, Providence, R. I. Caster	277,522	May 15	1245	334	23	1853
Varian, Edward. (See Garver and Varian.)						
Varley, Cromwell F., Bexley Heath, county of Kent, England. Electric divining-rod	277,087	May 8	731	191, 192	23	1757
Varney, Joseph M., assignor of one-third to A. W. Prather, Lineville, Iowa. Collar	277,088	May 8	732	192	23	1757
Varney, Nicholas R., Waltham, Mass. Stem-winding watch	269,974	Jan. 2	179	52	23	37
Varney, William E., Daytonville, and W. J. Hull, Wellman, Iowa. Wood-working machine	279,051	June 5	538	147, 148	23	2215
Varney, William E., Daytonville, and W. J. Hull, Wellman, Iowa. Wood-working machine	279,052	June 5	541	148	23	2215
Varns, Tobias L. (See Michener and Varns.)						
Varnum, William, Erie, Pa. Step-ladder	273,782	Mar. 13	709	191	23	964
Varwig, Henry. (See Albright, William L., assignor.)						
Vaughan, Frank, Elizabeth City, N. C. Self-bailing boat	270,519	Jan. 9	851	248	23	176
Vaughan, Frank, Elizabeth City, N. C. Life-boat	273,197	Feb. 27	2036	573	23	819
Vaughan, Frank, Elizabeth City, N. C. Fire-escape	279,053	June 5	542	149	23	2215
Vaughan, Frank, Elizabeth City, N. C. Boat hoisting, detaching, and lowering	282,937	Aug. 7	544	154	24	597
Vaughan, Henry W., assignor to J. W. Slater and H. Richmond, Providence, R. I. Applying dye-stuffs to fibrous materials	272,498	Feb. 20	1154	.....	23	657
Vaughan, Henry W., assignor to J. W. Slater and H. Richmond, Providence, R. I. Preparing dye-stuffs for application to fibrous materials	272,499	Feb. 20	1155	.....	23	657
Vaughan, Henry W., assignor to H. Richmond and J. W. Slater, Providence, R. I. Machine for applying coloring-matter to fibrous material	273,198	Feb. 27	2037	573	23	819
Vaughan, Henry W., assignor to United States Dyeing Company, Providence, R. I. Machine for applying coloring-matter to fibrous material	280,885	July 10	674	190	24	126
Vaughan, Patrick, Louisville, Ky. Beer-scale	290,153	Dec. 11	962	272	25	1065
Vaughn, Joseph W., Peabody, assignor to himself and G. L. Newcomb, Salem, Mass. Putting-out machine	274,858	Mar. 27	2063	574, 575	23	1213
Vaughn, Joseph W., Peabody, assignor to himself and G. L. Newcomb, Salem, Mass. Roller for leather-dressing	274,859	Mar. 27	2066	575	23	1214
Vaughn, Warren J., Kansas City, Mo. Windmill	278,756	June 5	100	28	23	2140
Vaughn, William H., Quincy, Ill. Fence-making machine	271,165	Jan. 23	1650	474, 475	23	331
Vavasseur, Josiah, London Ordnance Works, Bear Lane, Southwark, county of Surrey, England. Projectile for ordnance	271,382	Jan. 30	1932	559	23	388
Vavasseur, Josiah, Bear Lane, Southwark, county of Surrey, England. Gun-carriage	273,199	Feb. 27	2039	573, 574	23	819
Vavasseur, Josiah, Bear Lane, Southwark, county of Surrey, England. Breech-loading ordnance	275,550	Apr. 10	896	242, 243	23	1387
Vavasseur, Josiah, Bear Lane, Southwark, county of Surrey, England. Ordnance	277,634	May 15	1382	373	23	1875
Vavasseur, Josiah, Bear Lane, Southwark, county of Surrey, England. Apparatus for controlling the recoil of ordnance	283,688	Aug. 21	1466	413	24	779
Veber, William F., assignor to C. D. Yonker, Bowling Green, Ohio. Lamp-filling can	289,585	Dec. 4	268	75	25	934
Vedder, Elihu, New York, N. Y. Decorative structure	276,100	Apr. 17	1583	437	23	1513
Vedder Pattern Works, Bascom, Galbraith & Co., N. S. (See Bascom, H. Clay, assignor.)						
Veerkamp, Florence L., C. F. Leopold, and W. Darker, Philadelphia, Pa. Braiding-machine	277,523	May 15	1246	335	23	1853
Vehring, Charles, assignor to M. Rubens, New York, N. Y. Bag or satchel	277,812	May 15	1584	433	23	1912
Velguth, Adolph, Milwaukee, Wis. Oil-stove	278,063	May 22	1887	517	23	1970
Veline, Nels A., Villisca, Iowa. Mechanical movement	290,372	Dec. 18	1240	349	25	1122
Vellacott, James R., assignor of one-half to G. Lendrum, Des Moines, Iowa. Valve and valve-gear for steam-pumps	273,645	Mar. 6	519	139	23	923
Velloni, Georges G. L., Paris, France. Electric battery	290,654	Dec. 18	1622	446	25	1187
Venator, Robert, and J. Weller, Buffalo, N. Y. Steam-generator	282,243	July 31	2418	665	24	442
Venn, Frank, Malden, Mass. Device for marking boots, shoes, and other articles	284,149	Aug. 28	2063	572	24	894
Venner, George W., *et al.* (See Venner, Orange H., assignor.)						
Venner, Orange H., Malden, assignor of one-half to G. W. Venner, Boston, and A. M. Wood, Somerville, Mass. Oscillating piston-engine	280,974	July 10	789	219	24	145
Verbeck, William, San Francisco, Cal. Combined cane and fan	285,530	Sept. 25	1676	471	24	1215
Verdin, Alois N. (See Hey and Verdin.)						
Vergason, Hiram K. (See Fisk and Vergason.)						
Vermilya, R. Dwight. (See De Tray and Vermilya.)						
Vermont Farm Machine Company. (See Butler, Francis G., assignor.) (Reissue.)						
Vernay, Claude. (See Thimonnier and Vernay.)						
Vernay, Claude, and F. Roux, Lyons, France. Sewing-machine	279,464	June 12	1067	295, 296	23	2313

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Vernon, Charles D., Sellapolis, Iowa. Scale and indicator	284,692	Sept. 11	658	185	24	1021
Vernon, James, Newton-Stewart, Scotland. Drinking-vessel	282,244	July 31	2418	665	24	442
Vernon, William G., assignor to Goodell & Waters, Philadelphia, Pa. Band saw machine	284,580	Sept. 4	515	144	24	991
Vero, Charles, and J. Everitt, Atherstone, county of Warwick, England. Manufacture of felt hats	284,924	Sept. 11	935	.....	24	1071
Verrill, Edgar F., *et al.* (See Cummings, Charles, assignor.)						
Verrill, George W., Portland, Me. Adjustable grate for ovens	274,533	Mar. 27	1684	468	23	1146
Very, Theodore S. (See Evans, Charles A., assignor.)						
Very, Theodore S., Boston, Mass. Cooling and distributing compressed air for refrigerating and ventilating purposes	275,964	Apr. 17	1415	390	23	1485
Vest, Eugene W., assignor of one-half to E. W. Stevens, Sedalia, Mo. Seed-planter	285,184	Sept. 18	1267	356	24	1135
Vetter, Charle W., Ukiah, Cal. Fruit-drier	286,509	Oct. 9	908	245	25	175
Vetter, John C., New Haven, Conn. Blow-pedal for organs	277,435	May 8	1137	306	23	1828
Vetter, John C., Indianapolis, Ind. Table-hinge	281,322	July 17	1232	341	24	230
Vibbard, William H., Kalamazoo, Mich. Sewer-flushing apparatus	272,992	Feb. 27	1785	500	23	773
Vick, Alfred, Mount Carmel, Conn., assignor of one-half to T. J. Harbach, Philadelphia, Pa. Toy	281,948	July 24	2031	555	24	373
Vicken, George P., assignor to Homan & Co., Cincinnati, Ohio. Candle-mold gage	282,133	July 31	2284	627	24	419
Vickers, George R., Jr., Baltimore, Md. Stock for fire-arms	277,741	Oct. 30	2506	675	25	486
Vickroy, James M. (See Strong, Sutton, assignor.)						
Vidal, Victor, Jr., Pignans, France. Fishing-float and manufacturing the same	290,154	Dec. 11	963	272	25	1065
Vielhaber, Walther, Altoona, Pa. Shaft-coupling	288,746	Nov. 20	1213	332	25	733
Vieman, Christian, assignor of one-half to Ford, Johnson & Co., Michigan City, Ind. Crossing-needle for weaving cane	272,993	Feb. 27	1786	500	23	774
Vienot, Jules P., assignor to R. Hoe & Co., New York, N. Y. Web-printing machine	274,534	Mar. 27	1686	468	23	1146
Vieta, Samuel W., Oscoda, Mich. Attachment to edgers	289,184	Nov. 27	1745	485	25	836
Vigreux, Charles. (See Claudon and Vigreux.)						
Vigreux, Emile, Bois Guillaume, France. Apparatus for producing currents of pure or carbureted air	272,002	Feb. 6	513	138	23	529
Villa, Henrique. (See Villa, José M. and H.)						
Villa, José M. and H., Medellin, United States of Colombia. Needle-gun	277,385	May 8	1076	290	23	1818
Villebonnet, Lucien B., Nancy, France. Rotary pump and ventilator	281,165	July 10	1016	284	24	186
Vincent, Charles W. (See Elphinstone and Vincent.)						
Vincent, Herbert M. (See Smith and Vincent.)						
Vincent, Herbert M., and W. N. Smith, assignors to themselves, J. H. and P. H. Coffin, New Bedford, Mass. Combined die-plate and tap-wrench	274,420	Mar. 20	1511	415	23	1110
Vincent, John, Jr., assignor of one-half to M. F. O'Donnell, M. Fitzsimmons, A. Roddy, G. Miller, A. and S. Campbell, J. O'Brien, and W. Gibson, St. James, Mich. Stove and other sheet-metal pipes	274,421	Mar. 20	1513	416	23	1110
Vincent, Nathan H. (See Smith, David L., assignor.)						
Vincent, William E., assignor to Reynolds Brothers, Port Deposit, Md. Can-heading machine	274,863	Mar. 27	2075	577	23	1214
Vine, James S., *et al.* (See Chambers, Josephus C., assignor.)						
Vinet, Avila S., *et al.* (See Lord, Peter, assignor.)						
Vinet, Jean B., *et al.* (See Lord, Peter, assignor.)						
Vinson, John, Knoxville, Tenn. Coal-chute	270,919	Jan. 23	1352	300	23	983
Visscher, Frederick, Mount Sterling, Ky. Transplanting-instrument	289,185	Nov. 27	1745	485	25	836
Visscher, Frederick, Mount Sterling, Ky. Transplanting-instrument	289,186	Nov. 27	1746	485	25	836
Vivarttas, Aloha, West Hoboken, N. J. Tool for cutting the teeth of metal gear-wheels	274,860	Mar. 27	2067	575	23	1214
Vivarttas, Aloha, West Hoboken, N. J. Tooth for gearing	274,861	Mar. 27	2069	576	23	1214
Vivarttas, Aloha, West Hoboken, N. J. Bevel-gear	274,862	Mar. 27	2073	577	23	1214
Vivarttas, Aloha, West Hoboken, N. J. Tooth for gearing. (Reissue)	10,381	Sept. 11	1024	287 288	24	1087
Viselich, Nicolas, Stockton, Cal. Combined portable tank and pump	274,060	Mar. 13	1042	286 287	23	1020
Voegtle, Jacob, Indianapolis, Ind. School-house heater	270,706	Jan. 16	1093	313	23	929
Voegtlin, Emile J., Telford, Pa. Screw-cutting die	270,618	Jan. 16	976	282	23	907
Voelckel, Frederick. (See Wiswall, Alvah, assignor.)						
Voerde, Frederick W., Chicago, Ill. Safety attachment for elevators	280,419	July 3	96	26	24	20
Voeth, Robert. (See Weiss, John C., assignor.)						
Vogel, Bernhard, Baltimore, Md. Sash-cord fastener	289,732	Dec. 4	454	127	25	966
Vogel, Ernst W., Milwaukee, Wis. Universal joint	277,176	May 8	843	223	23	1776
Vogeler, Jerome I. (See Thomas, George W., assignor.)						
Vogeler, Jerome I. (See Whittle, John T., assignor.)						
Vogeley, Samuel G., Pittsburg, Pa. Manufacture of glass stands and pedestals	274,233	Mar. 20	1272	351	23	1069
Voglesong, John W., Minerva, Ohio. Rubber bucket for pumps	274,061	Mar. 13	1042	287	23	1020
Vogt, Albrecht, Rochester, N. Y. Fire-escape	277,396	May 8	1080	290	23	1818
Vogt, Albrecht, Rochester, N. Y. Molding	291,008	Dec. 25	2095	577	25	1274
Vogt, Julius F. and W. C., St. Louis, Mo. Stave-jointer	288,517	Nov. 13	922	252	25	676
Vogt, Louis. (See Buchbinder and Vogt.)						
Vogt, William C. (See Vogt, Julius F. and W. C.)						
Voigt, Ferdinand F., Walla Walla, Wash. Ter. Track-laying machine	286,564	Oct. 9	979	263	25	188
Voigt, Ward & Co. (See Brunt, William H., assignor.)						
Voigt, Ward & Co. (See Stewartson, William B., assignor.)						
Voigt, Ward & Co. (See Ward and Brunt, assignors.)						
Voigtman, Max W. (See Smith and Voigtman.)						
Voith, Friedrich, Heidenheim, Würtemberg, Germany. Machine for assorting wood-pulp	289,187	Nov. 27	1747	485	25	836
Vojácek, Ladislav, Sinichov-Prague, Bohemia, Austria-Hungary. Apparatus for bending rails and bars	274,678	Mar. 27	1855	517	23	1177
Volker, Daniel L. (See Felthousen and Volker.)						
Volkersen, Frederik D. (See Leerbech and Volkersen.)						
Volkmann, Conrad D., assignor of one-half to W. F. Peddycord, Nappanee, Ind. Pipe-wrench	289,188	Nov. 27	1747	486	25	836
Vollert, William P., *et al.* (See Dumke, Frank F., assignor.)						
Vollmer, John G., Austin, Tex. Dry ore-concentrator	287,396	Oct. 23	2043	556	25	389
Vollschwitz, Rudolph, Jersey City, N. J. Rasp	285,185	Sept. 18	1270	356	24	1135
Volpp, Schwarz & Co. (See Gauchot, Paul E., assignor.)						
Voltz, Anthony W., Buffalo, N. Y. Document and file case	273,408	Mar. 6	220	59	23	871
Voltz, Anthony W., Buffalo, N. Y. File-case	289,042	Nov. 27	1572	434	25	805
Vom Hofe, Edward C., Brooklyn, N. Y. Fishing-reel	271,166	Jan. 23	1653	475	23	332
Von Bechtolsheim, Clemens, Munich, Germany. Centrifugal machine	276,985	May 1	586	154	23	1726
Von Buchwald, William C. (See Cannon and Von Buchwald.)						
Von Cort, Charlotte A., New York, N. Y. Apparatus for cooling and ventilating buildings	282,474	July 31	2710	746	24	492

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Von Der Wulbeke, Anthony, New York, N. Y. Table	279,290	June 12	836	232	23	2276
Von Krause, Arthur, West New Brighton, N. Y. Portable ice-freezing house	276,508	Apr. 24	2101	584	23	1610
Von Lillienschiold, Hans G. (See Steineke, Charley, assignor.)						
Von Loehr, August, Vienna, Austria-Hungary. Watch-case	283,170	Aug. 14	829	232	24	654
Von Rein, Carl, Rudolstadt, assignor to Tunker & Ruh, Carlsruhe, Germany. Sewing-machine	274,381	Mar. 20	1460	400	23	1101
Von Reitzner, Viktor, Vienna, Austria-Hungary. Lineameter	275,734	Apr. 10	1124	308	23	1426
Von Schlieffen, Wilhelm, Schlieffenberg, Germany. Pneumatic stopper for bottles	288,603	Nov. 13	1025	{281 / 282}	25	695
Von Schmidt, Allexey W., San Francisco, Cal. Curved rotating plow for submarine work	277,177	May 8	843	223	23	1776
Von Schwarz, Carl E., Vienna, Austria-Hungary. Device for stopping horses	273,616	Mar. 6	481	129	23	916
Voorhees, John K., Pella, Iowa. Check-row corn-planter	271,167	Jan. 23	1654	475	23	332
Voorhis, Winfield S., and G. H. Houser, Chicago, Ill. Grain-car door	275,735	Apr. 10	1125	308	23	1426
Voos, Franz, Solingen, Prussia, Germany. Drilling-machine	273,409	Mar. 6	221	59	23	871
Vorck, August. (See Wellmann, Fredrick, assignor.)						
Vordermark, Henry R., Indianapolis, Ind. Track-gate for railways	270,707	Jan. 16	1095	313	23	229
Vorhes, Josiah H., Fandon, Ill. Road-scraper	283,835	Aug. 28	1653	466	24	823
Voris, Franklin D. (See Moran, John J., assignor.)						
Vorpahl, Leonhard, and H. Pohl, Berlin, Germany. Album-clasp	289,363	Nov. 27	1956	544	25	877
Vosburgh, Reuben, Oregon, Ill. Sash-weight	276,509	Apr. 24	2103	584	23	1611
Vose, George L. (See Southwick, Andrew S., assignor.)						
Vose, Richard. (See Clark, Dallas P., assignor.)						
Vose, Richard, New York, N. Y. Shaped bar for springs	285,324	Sept. 18	1422	402	24	1164
Votti, Carl, Philadelphia, Pa. Signal device for clock-winding	289,789	Dec. 4	515	142	25	976
Vought, Thomas L., Madelia, Minn. Hay-rack	280,693	July 3	426	121	24	76
Vought, Thomas L., Madelia, Minn. Press for cornstalks, &c	281,417	July 17	1347	372	24	250
Vreeland, Aaron, Cedar Grove, N. J. Vehicle-wheel	284,990	Sept. 11	1017	286	24	1086
Vreeland, Jacob C. (See Tidd, Milton, assignor.)						
Vreeland, Sara L., Hackensack, N. J. Tray	276,510	Apr. 24	2104	584	23	1611
Vunk, George W., assignor of one-half to B. E. Huntley, Brockport, N. Y. Car-coupling	274,422	Mar. 20	1514	416	23	1110
Wachs, Alfred, Leipsic, Germany. Planometer or measuring parallel ruler	287,200	Oct. 23	1800	{493 / 494}	25	345
Waddell, James O., Elizabeth, N. J. Faucet	270,353	Jan. 9	627	185	23	132
Waddell, James O., Elizabeth, N. J. Sand-band	274,535	Mar. 27	1688	468	23	1146
Waddell, James O., Elizabeth, assignor to Waddell Manufacturing Company, Newark, N. J. Cock and casing	270,520	Jan. 9	852	248	23	176
Waddell, Lyttelton and W. H., Charlottsville, Va. Portable and adjustable head-rest for car or other seats	284,925	Sept. 11	937	263	24	1071
Waddell Manufacturing Company. (See Waddell, James O., assignor.)						
Waddell, William H. (See Waddell, Lyttelton and W. H.)						
Waddell, William H., Charlottesville, Va. Station-indicator	288,518	Nov. 13	923	252	25	676
Waddell, William H., Charlottesville, Va. Railway time-signal	288,519	Nov. 13	924	252	25	676
Waddill, John J. (See Irvine and Waddill.)						
Waddill, John J., Montgomery, Ala. Nut-lock	271,955	Feb. 6	447	122	23	519
Waddington, A. B., *et al.* (See Gibson, James E., assignor.)						
Wade, Ephraim H., San José, Cal. Whiffletree	283,541	Aug. 21	1291	361	24	745
Wade, George W., and J. M. Wardell, Cadillac, Mich. Rotary steam-engine	270,160	Jan. 2	393	114	23	80
Wade, Horace S., *et al.* (See Bennette, Jacob B., assignor.)						
Wade, John, Oregon, Ill. Barrel-head holder	273,646	Mar. 6	521	140	23	923
Wade, Josiah, Halifax, county of York, England. Boring-tool	280,420	July 3	99	26	24	20
Wadhams, Orlo E., Goshen, Conn. Chain-pump bucket	287,348	Oct. 23	1985	541	25	379
Wadleigh, John C., Chicago, Ill. Gelatine eye-disk	273,410	Mar. 6	221	60	23	871
Wadleigh, Joseph, Milks Grove, Ill. Hay-press	276,649	May 1	130	34	23	1649
Wadleigh, Theodore, Milks Grove, Ill. Trace-buckle	284,262	Sept. 4	131	36	24	927
Wadlington, John M., Marshall, Mo. Tree-protector	285,186	Sept. 18	1270	357	24	1136
Wadlow, Richard H., Atlanta, Ga. Shoe	281,166	July 10	1017	285	24	186
Wadsworth, Daniel. (See Phelps, George N., assignor.)						
Wadsworth, Grant M., Sugar Grove, Pa. Fence	289,189	Nov. 27	1748	486	25	837
Waefelaer, Louis, Hoboken, N. J. Water-closet	286,874	Oct. 16	1378	378	25	264
Waggoner, Albert, Columbus, Ohio. Hame	282,245	July 31	2420	665	24	442
Wagner, Daniel W., *et al.* (See Greene, Jonathan H., assignor.)						
Wagner, George F., Omaha, Nebr. Fire-extinguisher	279,054	June 5	544	{149 / 150}	23	2216
Wagner, George J. (See Switter, Joseph, assignor.)						
Wagner, Gustavus G., assignor of one-tenth to F. L. Crawford, New York, N. Y. Pneumatic clock-regulator	269,900	Jan. 2	93	28	23	20
Wagner, Gustavus G., Mount Vernon, N. Y. Synchronizing clocks	281,585	July 17	1553	425	24	284
Wagner, Jacob, Pickering, Mo. Steam-pump regulator	287,069	Oct. 23	1634	449	25	315
Wagner, John H., assignor to Smith Consolidation Company, Chicago, Ill. Machine for consolidating loose materials into solid blocks	290,293	Dec. 18	1143	{320 / 331}	25	1104
Wagner, John L., and J. Seath, Terre Haute, assignors to themselves, T. A. Lewes, Indianapolis, R. S. Cox, Terre Haute, Ind., and H. R. Duvall, New York, N. Y. Car-door	288,190	Nov. 6	488	136	25	592
Wagner, John L., and J. Seath, Terre Haute, assignors to themselves, T. A. Lewis, Indianapolis, Ind., H. R. Duvall, New York, N. Y., and R. S. Cox, Terre Haute, Ind. Car-door	280,537	July 3	242	65	24	43
Wagner, Julius, Reading, Pa. Shaft-loop	270,161	Jan. 2	395	114	23	80
Wagner, Louis. (See Johnson and Wagner.)						
Wagner, Louis. (See Patzem and Wagner.)						
Wagner, Michael, assignor of one-half to H. Schanuel, Belleville, Ill. Thill-coupling	281,323	July 17	1233	341	24	231
Wagstaff, John H., St. John, New Brunswick, Canada. Index	285,531	Sept. 25	1676	471	24	1215
Wahl, Joseph, Chicago, Ill. Overalls	275,441	Apr. 10	761	203	23	1364
Waide, Robert, Indianapolis, Ind. Ventilator	279,291	June 12	837	232	23	2276
Wailey, Charles W., assignor of one-half to C. W. Foushee, Lexington, Ky. Weighing-scale	281,586	July 17	1555	425	24	284
Wainwright, Charles B., Philadelphia, Pa. Medicated artificial nest-egg	275,297	Apr. 3	530	144	23	1316
Wainwright, Clement R., *et al.* (See Harned, Frank P., assignor.)						
Wainwright, Israel R., *et al.* (See Harned, Frank P., assignor.)						
Wainwright, Jacob T., Philadelphia, Pa. Generating motor-vapor for engines	274,423	Mar. 20	1515	416	23	1111
Wainwright, Joseph G., *et al.* (See Nugent, Richard C., assignor.)						
Wainwright, Joseph R., *et al.* (See Harned, Frank P., assignor.)						
Wainwright, William. (See Ludwig and Wainwright.)						
Wais, Christian, assignor one-half to W. J. Rothweiler, Newport, Ky. Sheet-metal-shearing machine	271,956	Feb. 6	448	123	23	519
Wait, Oscar E., Providence, R. I. Caster for roller-skates and furniture	281,324	July 17	1234	341	24	231
Wait, Oscar E., Providence, R. I. Preparing rawhide for shaping	284,780	Sept. 11	767	214	24	1040

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Waite, Aldis L., *et al.* (See McAllister, Guy W., assignor.)						
Waite, Charles N., Medford, Mass., assignor to Avery Lactate Company, Portsmouth, N. H. Mordant	290,294	Dec. 18	1144	.....	25	1104
Waite, Enoch, Franklin, Mass. Felt boot or shoe	279,055	June 5	546	150	23	2216
Waite, Enoch, Franklin, Mass. Felt boot	285,089	Sept. 18	1152	321	24	1115
Waite, Franklin H., Mankato, Minn. Match-safe	289,190	Nov. 27	1749	486	25	837
Waite, Henry E. (See Bartlett and Waite.)						
Waite, Henry E., New York, N. Y. Receiver for telephones	286,875	Oct. 16	1380	378	25	264
Waite, Henry E., New York, N. Y. Telephone-receiver	286,876	Oct. 16	1380	379	25	264
Waite, Henry E., assignor to Molecular Telephone Company, New York, N. Y. Telephone-receiver	287,742	Oct. 30	2507	675	25	486
Waite, Henry E., and S. H. Bartlett, assignors to Molecular Telephone Company, New York, N. Y. Telephone-receiver	287,743	Oct. 30	2507	676	25	486
Waite, Milo K. (See Armstrong and Waite.)						
Wakefield, Calvin P., Cressey, Cal. Trace-book	272,175	Feb. 13	731	202	23	578
Wakefield, Hezekiah B., Winfield, Kans. Stock-trough	290,948	Dec. 25	2007	553	25	1260
Wakefield, Nathan S., assignor of one-half to Q. Barber, Camden, N. Y. Machine for cutting pegs from boots or shoes	281,587	July 17	1555	426	24	285
Wakeman, Abram, Jr., New York, N. Y. Spike	276,511	Apr. 24	2104	585	22	1611
Walbridge, Dwight F., Buffalo, N. Y. Slate-wiper	270,708	Jan. 16	1096	314	23	229
Walbridge, Henry B., Brooklyn, N. Y. Fire-escape	276,736	May 1	270	68	23	1670
Walcott, Jabez E., assignor to F. I. Marcy, Providence, R. I. Feed device for jewelers' presses	273,918	Mar. 13	875	237	23	991
Walcott, Jabez E., assignor to F. I. Marcy, Providence, R. I. Machine for making the loops of chain-swivels	273,919	Mar. 13	876	237, 238	23	992
Walcott, William S., New York Mills, N. Y. Warping-machine	287,201	Oct. 23	1801	494	25	346
Walden, William J., Kingsland, county of Middlesex, England. Fastening for gaiters, gloves, &c	272,359	Feb. 13	958	267	23	618
Walder, Jacob. (See Urbahn, Alwill, assignor.)						
Waldherr, Apollo, Union Hill, N. J. Scarf and collar fastener	273,200	Feb. 27	2041	574	23	819
Waldman & Daniels. (See Waldman, Simon L., assignor.)						
Waldman, Simon L., assignor to Waldman & Daniels, Boston, Mass. Leggin	276,737	May 1	271	68	23	1671
Waldo, Charles F., New York, N. Y. Velocipede	284,781	Sept. 11	769	215, 216	24	1040
Waldo, George H., Detroit, Mich. Grading-machine	278,296	May 22	2193	603, 604	23	2022
Waldorp, Jan H. M., Nymwegen, Holland. Apparatus for recording speed of trains on railway-bridges	279,292	June 12	838	232, 233	23	2277
Waldran, John D., Memphis, Tenn. Valve-grinder	286,095	Oct. 2	391	107	25	72
Waldron, Charles F., Boston, Mass. Carriage-lamp	280,101	June 26	1836	517	23	2459
Wales, George A. (See Mullins, Timothy, assignor.)						
Wales Manufacturing Company. (See Beadle, George, assignor.)						
Wales, Sigourney, Cambridge, Mass., assignor to W. C. Howard, New York County, N. Y. Tool-handle	281,418	July 17	1348	372	24	250
Wales, Sigourney, Cambridge, Mass., assignor to W. C. Howard, New York County, N. Y. Razor-strop	281,419	July 17	1349	372	24	250
Wales, Sigourney, Cambridge, Mass., assignor to W. C. Howard, New York, N. Y. Garment-supporter clasp	287,349	Oct. 23	1986	542	25	380
Wales, Sigourney, Cambridge, Mass., assignor to W. C. Howard, New York, N. Y. Pencil-clasp	289,476	Dec. 4	126	36	25	909
Wales, William A., assignor to Auburndale Watch Company, Boston, Mass. Game-counter	276,101	Apr. 17	1584	437	23	1514
Walke, Henry A., Hamilton, Ohio. Fountain-pen	274,679	Mar. 27	1857	517	23	1177
Walker, Aaron, Kokomo, Ind. Fire-escape	284,517	Sept. 4	439	124	24	979
Walker, Addison W., assignor to Lovell Manufacturing Company, (limited,) Erie, Pa. Animal-trap	283,171	Aug. 14	830	232	24	654
Walker, Albert A., and T. J. Backus, Dayton, Ohio. Water-motor	272,105	Feb. 13	655	178	23	565
Walker, Albert W., Clemonsville, N. C. Fruit-drier	281,167	July 10	1019	285	24	187
Walker, Albert W., Clemonsville, N. C. Tobacco-drier	281,168	July 10	1019	285	24	187
Walker, Charles C., Lilleshall, county of Salop, and W. T. Walker, Highgate, county of Middlesex, England. Apparatus for the purification of coal-gas	272,804	Feb. 20	1537	432	23	725
Walker & Co., William H. (See Walker, William H., assignor.)						
Walker, Edward F., Providence, R. I. Car-coupling	287,070	Oct. 23	1635	449	25	316
Walker, Edwin R. (See Walker, John S., T. A., and E. R.)						
Walker, Frank, Tombstone, Ariz. Ter. Piston water-meter	272,607	Feb. 20	1291	359, 360	23	680
Walker, Fred. B., and J. Lander, Galveston, Tex. Railway steam car-brake	278,297	May 22	2205	605	23	2025
Walker, George, Newark, N. J. Rosette for bridles	279,677	June 19	1329	369	23	2364
Walker, George P., *et al.* (See Coram, John C., assignor.)						
Walker, George P., Lowell, Mass. Parcel-carrier and track	278,298	May 22	2206	605	23	2025
Walker, George P., assignor of one-half to A. T. Atherton, Lowell, Mass. Track for cash and parcel carriers	282,416	July 31	2637	723, 724	24	481
Walker, George P., assignor of one-half to A. T. Atherton, Lowell, Mass. Track for cash and parcel carriers	282,417	July 31	2639	724	24	481
Walker, George P., assignor of one-half to A. T. Atherton, Lowell, Mass. Track for cash and parcel carriers	282,418	July 31	2641	724, 725	24	481
Walker, George P., assignor of one-half to A. T. Atherton, Lowell, Mass. Track for cash and parcel carriers	282,419	July 31	2643	725	24	482
Walker, George P., assignor of one-half to A. T. Atherton, Lowell, Mass. Cash-carrier	282,420	July 31	2644	725	24	482
Walker, George P., assignor of one-half to A. T. Atherton, Lowell, Mass. Cash-carrier	282,421	July 31	2645	725	24	482
Walker, George W., Malden, Mass. Grate-bar. (Reissue)	10,296	Mar. 13	1093	301	23	1029
Walker, George W., Malden, Mass. Stove	274,062	Mar. 13	1043	287	23	1020
Walker, George W., Malden, Mass. Stove	275,442	Apr. 10	762	203	23	1364
Walker, Henry, Birmingham, county of Warwick, England. Breech-loading fire-arm	284,518	Sept. 4	440	125	24	979
Walker, Henry W., San Francisco, Cal. Cupel-mold	284,693	Sept. 11	660	185	24	1029
Walker, Hiram C., and W. Bacon, Silver Cliff, Colo. Gold-separator	288,520	Nov. 13	925	253	25	676
Walker, James, Jr., Chelsea, Mass. Lubricator	289,477	Dec. 4	127	36	25	909
Walker, James, Wyoming, assignor of one-half to R. C. Maxwell, Cincinnati, Ohio. Car-ventilator	274,063	Mar. 13	1044	288	23	1021
Walker, James T., Troy, N. Y. Fruit and vegetable cutter	273,201	Feb. 27	2043	575	23	820
Walker, James T., Baltimore, Md. Thread holder	275,736	Apr. 10	1126	308	23	1427
Walker, James T., Baltimore, Md. Thread-holder	283,689	Aug. 21	1468	414	24	779
Walker, James T., Baltimore, Md. Carriage-top standard	283,690	Aug. 21	1468	414	24	779
Walker, James T., Baltimore, Md. Bottle-stopper fastener	287,350	Oct. 23	1987	542	25	380
Walker, James T., Baltimore, Md. Bottle-stopper	288,521	Nov. 13	926	253	25	676

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Walker, James T., Baltimore, Md. Wad-retainer for cartridges	289,191	Nov. 27	1749	486	25	837
Walker, John, Indianapolis, Ind. Molding-machine	287,983	Nov. 6	245	69, 70, 71, 72	25	550
Walker, John, Cleveland, Ohio. Pulley-wheel	288,386	Nov. 13	762	205	25	647
Walker, John, Cleveland, Ohio. Pulley or wheel	288,522	Nov. 13	927	253	25	677
Walker, John L., Braidwood, Ill. Wind-engine	273,920	Mar. 13	877	238	23	992
Walker, John R., Richland, Mo. Boot-jack	275,551	Apr. 10	897	243	23	1387
Walker, John S., T. A., and E. R., Wigan, county of Lancaster, England. Air-valve	289,192	Nov. 27	1750	487	25	837
Walker, Joseph, Belleville, Kans. Weather-strip	274,536	Mar. 27	1689	469	23	1147
Walker, Joseph H. (See Powers and Walker.)						
Walker, Joseph H., assignor of one-half to W. H. Powers, Grand Rapids, Mich. Burial-casket	276,312	Apr. 24	1848	515	23	1566
Walker, Lambert R. (See Bassemir and Walker.)						
Walker, Lewis W., Minneapolis, Minn. Coffee-pot	277,813	May 15	1584	433	23	1912
Walker, Lyman J., *et al.* (See Lattimer, Francis, assignor.)						
Walker, Marion H., Whitehall, Ill. Stock-car	288,683	Nov. 20	1129	311	25	718
Walker, Martin W., Sing Sing, N. Y. Oil-stove	288,523	Nov. 13	927	253	25	677
Walker, Miciah, Port Huron, Mich. Flexible pipe-joint	275,098	Apr. 3	288	79	23	1276
Walker, Oakley S., Carthage, N. Y. Ratchet-drill	282,809	Aug. 7	399	113	24	570
Walker, Richard H., Wilkes-Barré, assignor of one-half to M. H. Stevens, Pittston, Pa. Sole and upper protector for boots and shoes	280,264	June 26	2024	569	23	2493
Walker, Robert J., Girard, Ill. Grain-door	271,957	Feb. 6	450	123	23	520
Walker, Robert O. and S., Chicago, Ill. Seal-lock	283,836	Aug. 28	1654	466	24	823
Walker, Samuel, Birmingham, county of Warwick, England. Making circular disks for tubes	283,727	Aug. 21	1517	.....	24	788
Walker, Sophronie. (See Walker, Robert O. and S.)						
Walker, Stephen T., *et al.* (See Kelley, John, assignor.)						
Walker, Thomas, Philadelphia, Pa. Amalgamator	279,995	June 26	1703	478	23	2436
Walker, Thomas, and J. F. Carter, Philadelphia, Pa., assignors to said Walker. Ore-roasting furnace	280,102	June 26	1837	517, 518	23	2460
Walker, Thomas A. (See Walker, John S., T. A., and E. R.)						
Walker, Thomas G., Morristown, N. J. Manufacture of glycerine	283,936	Aug. 28	1776	502	24	846
Walker, Thomas G., Morristown, N. J. Offal-drier	285,187	Sept. 18	1271	357	24	1136
Walker, Thomas H., Kansas City, Mo. Self-closing faucet	275,099	Apr. 3	289	79	23	1276
Walker, William, Jr. (See Fair, George W., assignor.)						
Walker, William H., assignor to W. H. Walker & Co., Rochester, N. Y. Photographic camera	276,311	Apr. 24	1845	514	23	1566
Walker, William T. (See Walker, Charles C. and W. T.)						
Walkley, Samuel T. (See Johnson and Walkley.)						
Walkup, Liberty, Rockford, Ill. Paint-distributer	285,325	Sept. 18	1423	402	24	1164
Wall, Edward B. (See Ely, Cloud, and Wall.)						
Wall, Frank J., Lawrence, Mass. Electric bell-pull	282,246	July 31	2421	666	24	443
Wallace, Albert E., Hartford, Conn., and J. H. Griffin, Brockton; said Wallace assignor to said Griffin; said Griffin assignor of one-half to C. Curtis, Boston, Mass. Trimming attachment for sewing-machines	272,805	Feb. 20	1539	433	23	725
Wallace, Albert E., Hartford, Conn., assignor to Pope Manufacturing Company, Boston, Mass. Axle-bearing for vehicles	280,421	July 3	100	27	24	20
Wallace, Albert E., assignor to Pope Manufacturing Company, Hartford, Conn. Tricycle	284,782	Sept. 11	776	216, 217	24	1041
Wallace, Ebenezer G., *et al.* (See Hall, Dyer P., assignor.)						
Wallace, Ebenezer G., *et al.* (See Scruton, Stephen B., assignor.)						
Wallace, Edwin, *et al.* (See Hall, Dyer P., assignor.)						
Wallace, Edwin, *et al.* (See Scruton, Stephen B., assignor.)						
Wallace, Henry R., Chicago, Ill. Neck-yoke	279,847	June 19	1520	425	23	2397
Wallace, George M., Yuba City, Cal. Dump-wagon	283,937	Aug. 28	1777	502	24	846
Wallace, John T., Neoga, Ill. Guard for plants and trees	283,837	Aug. 28	1655	467	24	824
Wallace, Nesbit W., 3 Harley Place, Clifton, county of Gloucester, England. Entrenching implement	285,188	Sept. 18	1272	357	24	1136
Wallace, Robert, Wallingford, Conn. Match-box	274,864	Mar. 27	2077	577	23	1215
Wallace, S. H. (See Strowger, William D., assignor.)						
Wallace, Samuel J., Keokuk, Iowa. Electric generator	274,865	Mar. 27	2077	578	23	1215
Wallace, Samuel J., Keokuk, Iowa. Car-axle lubricator	280,265	June 26	2025	570	23	2493
Wallace & Sons. (See Bray, Morris P., assignor.)						
Wallace, Thomas, *et al.* (See Wallace, William, assignor.)						
Wallace, William, New York, N. Y. Dumping-wagon	273,202	Feb. 27	2044	575	23	820
Wallace, William, Oakland, Cal. Dress-maker's rule	284,783	Sept. 11	779	217	24	1041
Wallace, William, Ansonia, Conn. Manufacturing articles by electro-deposition of metals upon forms	290,949	Dec. 25	2008	553	25	1261
Wallace, William, Ansonia, Conn., assignor of two-thirds to A. K. Eaton, Brooklyn, N. Y., and T. Wallace, Ansonia, Conn. Making electrodes for secondary batteries	278,638	May 29	2639	721	23	2109
Wallace, William B., Belleville, Ill. Steam-brake for locomotives	278,209	May 22	2206	606	23	2025
Wallace, William M., Bridgeport, Ohio. Manufacture of glassware	275,298	Apr. 3	530	145	23	1316
Wallace, William M., Bridgeport, Ohio. Manufacturing glass articles	278,472	May 29	2438	665	23	2075
Wallace, William M., Bridgeport, Ohio. Glass-press	281,740	July 24	1767	480, 481	24	325
Wallace, William M., assignor to C. M. Rhodes, Bridgeport, Ohio. Mold for forming glass screw-caps	270,162	Jan. 2	395	114	23	80
Wallace, William R., assignor of two-thirds to T. L. Rivers, Mount Vernon, Ill. Car-coupling	277,635	May 15	1382	373	23	1875
Wallace, William W., Frankfort, Ind. Brick and tile machine	288,894	Nov. 20	1386	382	25	765
Wallace, William W., Frankfort, Ind. Clay-crusher	288,895	Nov. 20	1387	382	25	765
Wallach, Solomon, New York, N. Y. Shirt	277,524	May 15	1249	336	23	1853
Wallensak, John F., Chicago, Ill. Set-screw	278,759	June 5	103	29	23	2141
Waller, Harry T. W., New York, N. Y. Game apparatus	289,043	Nov. 27	1573	434	25	805
Walliker, Arnold. (See Fuson, William T., assignor.)						
Wallis, Arthur H., Basingstoke, county of Hants, England. Pitch-chain. (Reissue)	10,413	Nov. 27	1873	548	25	879
Wallmer, Johannes, Middlebury, Ind. Horse-collar pad	288,141	Nov. 6	429	121	25	583
Walmsley, Joseph. (See Hall and Walmsley.)						
Walrath, Jesse, Racine, Wis. Saw-mill	278,064	May 22	1888	517	23	1971
Walrath, Jesse, Racine, Wis. Steam-engine	281,809	July 24	1862	509	24	343
Walrath, Jesse, Racine, Wis. Portable steam-engine	284,344	Sept. 4	226	64	24	942
Walsh, Francis A., Chicago, Ill. Seaming-machine	271,668	Feb. 6	98	27	23	457

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Walsh, Francis A., Chicago, Ill. Double-seaming sheet-metal cans	272,500	Feb. 20	1156	324	23	657
Walsh, Francis A., Chicago, Ill. Sheet-metal can	273,783	Mar. 13	710	191	23	964
Walsh, Francis A., Chicago, Ill. Seaming-machine	277,962	May 22	1764	481 482	23	1948
Walsh, John B., Providence, R. I. School-slate	277,387	May 8	1061	290	23	1819
Walsh, John E., New York, N. Y. Grain-elevator	284,263	Sept. 4	132	37	24	927
Walsh, Peter H., New York, N. Y. Truck	280,975	July 10	790	219	24	145
Walsh, Ralph, *et al.* (See Crowley, David, assignor.)						
Walsh, Richard, Detroit, Mich. Water-closet	283,172	Aug. 14	831	232	24	654
Walsh, Robert F., Brooklyn, N. Y. Slate-frame	270,163	Jan. 2	397	114	23	81
Walter, Charles, *et al.* (See Smith, Abraham B., assignor.)						
Walter, Gustave, Sandwich, Ill. Cart-spring	270,164	Jan. 2	397	115	23	81
Walter, John, Nashville, Tenn. Pipe-coupling	284,096	Aug. 28	1991	555	24	883
Walter, John, Nashville, Tenn. Car-roof	286,877	Oct. 16	1381	379	25	264
Walter, John F., Jr., Brooklyn, N. Y. Drying and seasoning lumber	287,351	Oct. 23	1988	.....	25	380
Walter, John T., Easton, Pa. Middlings-purifier	290,504	Dec. 18	1429	396	25	1154
Walter, Peter, Jr. (See Stitt, Lowbridge, and Rosenkrans, assignors.)						
Walterhouse, John J., Vincennes, Ind. Centrifugal reel	274,234	Mar. 20	1273	352	23	1069
Walters, Almern B., Philadelphia, Pa. Lock for sliding doors	276,941	May 1	535	138	23	1717
Walters, Andrew J. (See Walters, John W., assignor.)						
Walters, Charles F., Richmond, Ind., assignor to Richmond City Mill Works, of Indiana. Flour-packer	279,678	June 19	1330	370	23	2364
Walters, John W., assignor of one-half to A. J. Walters, Jonesville, Mich. Fence-post	286,978	Oct. 16	1512	415	25	286
Walters, Joseph, Washington, assignor of one-half to J. Billings, Daviess County, Ind. Bed-spring	271,554	Jan. 30	2149	619	23	427
Walthour, John F., San Francisco, Cal. Device for unshipping masts	282,592	Aug. 7	144	43	24	526
Walton, Augustus. (See Rasner and Walton.)						
Walton, Augustus, San Francisco, Cal. Pulley	282,422	July 31	2646	726	24	482
Walton, Augustus, San Francisco, Cal. Car-axle	287,202	Oct. 23	1803	494	25	346
Walton, Benjamin, Fairbury, Ill. Stock-barn	288,896	Nov. 20	1388	383	25	765
Walton, Elias H., Cincinnati, Ohio. Sliding door or shutter	290,373	Dec. 18	1241	350	25	1122
Walton, George B., *et al.*, trustees. (See Cocheu, Noah L., assignor.)						
Walton, Henry, Philadelphia, Pa. Bottle-case	275,552	Apr. 10	898	243	23	1387
Walton, Isaac, *et al.* (See Odell, Levi J., assignor.)						
Walton, Joseph J. (See Drake, Mahlon S., assignor.)						
Walton, Joseph J. (See Hunt, George P., assignor.)						
Walton, Thomas, assignor to himself and A. W. Paull, Wheeling, W. Va. Manufacture of covered glassware	286,096	Oct. 2	392	107 108	25	72
Walton, Wesley, *et al.* (See Odell, Levi J., assignor.)						
Walworth, Caleb C., Boston, Mass. Automatic fire-extinguisher	271,669	Feb. 6	100	27	23	457
Walworth, Caleb C., Boston, Mass. Pipe-cutter	279,207	June 12	742	204	23	2260
Walworth, Caleb C., Boston, Mass. Fire-extinguisher	281,169	July 10	1020	285	24	187
Walworth, Caleb C., Boston, and O. B. Hall, Malden, Mass. Automatic fire-extinguisher	287,071	Oct. 23	1636	450	25	316
Wanamaker, John. (See Thompson, Charles S., assignor.)						
Wands, John C., St. Louis, Mo. Rotary engine	271,555	Jan. 30	2150	619	23	427
Wands, John C., St. Louis, Mo. Freight-car roofing	280,976	July 10	791	220	24	145
Wanee, Silvanus. (See Weller, Wanee, and Roesch.)						
Wangeman, Rudolph, San Francisco, Cal. Screw-clamp for stools	274,680	Mar. 27	1858	517	23	1177
Wannamaker Alfred, West Salem, assignor to A. Hullinger, Oberlin, Ohio. Flax-thrasher	274,866	Mar. 27	2081	578	23	1215
Wannamaker, John M., Trenton, Mo. Thill-coupling	279,996	June 26	1707	478	23	2436
Wanner, Albert, Hoboken, N. J. Perfumery-stand	289,586	Dec. 4	268	75	25	935
Wanner, Michael, St. Louis, Mo. Centrifugal machine	274,064	Mar. 13	1045	288	23	1021
Warburton, William H., *et al.* (See Crawford, John, assignor.)						
Ward, Alexander F., Detroit, Mich. Feed-water heater	279,648	June 19	1521	425	23	2397
Ward, Alexander F., Detroit, Mich. Cut-off-valve gear	280,103	June 26	1840	518	23	2460
Ward, Anthony, assignor to A. G. Jennings, Brooklyn, N. Y. Knitting-machine	280,886	July 10	676	190 191	24	126
Ward, Charles, *et al.* (See Rayner, Thomas S., assignor.)						
Ward, Charles E., New York, N. Y. Neckscarf	288,387	Nov. 13	763	206	25	647
Ward & Curley. (See McHugh, Timothy, assignor.)						
Ward, Cyrus T., *et al.* (See Rayner, Thomas S., assignor.)						
Ward, Eugene, Newark, N. J. Bridle	289,193	Nov. 27	1752	487	25	837
Ward, Eugene, assignor to Butler & Ward, Newark, N. J. Sewing-machine attachment for channeling leather	275,794	Apr. 10	1206	330	23	1440
Ward, Frank F., and F. Lindsey; said Ward assignor to B. A. Nevins, Otsego, Mich. Egg-crate	282,810	Aug. 7	400	113	24	570
Ward, George B., New York, N. Y. Treadle attachment for sewing and other machinery	270,863	Jan. 16	1273	367	23	264
Ward, George C., Gerard, Kans. Cotton-seed planter	273,647	Mar. 6	522	140	23	923
Ward, George M. (See Serrell and Ward.)						
Ward, George W. (See Ward, Thomas B., W., and G. W.)						
Ward, Hezekiah C. (See Hedrick, Mason, assignor.)						
Ward, James M. (See Cannon and Ward.)						
Ward, Joel T., Piedmont, W. Va. Saddler's sewing-horse	284,097	Aug. 28	1992	555	24	883
Ward, John A., Sharpsville, Pa. Clothes-drier	283,728	Aug. 21	1518	428	24	789
Ward, John H., assignor of one-half to J. H. McDermott, Lowell, Mass. Car-coupling	273,326	Mar. 6	112	32	23	853
Ward, John S., Eureka, Ill. Corn-planter	274,065	Mar. 13	1046	288 289	23	1021
Ward, Michael, and W. H. Brunt, assignors to Voigt, Ward & Co., Pittsburg, Pa. Apparatus used in etching glassware	270,165	Jan. 2	398	115	23	81
Ward, Milton C., Farmington, N. C. Lifting-tongs	282,134	July 31	2285	627	24	420
Ward, Morris E., *et al.* (See Jackson, Andrew, assignor.)						
Ward, Robert, South Orange, N. J. Knit fabric	283,047	Aug. 14	685	192	24	629
Ward, Stephen S., Greenfield, Mass. Carving-fork guard	279,056	June 5	546	150	23	2216
Ward, Thomas B., W., and G. W., Soldier's Grove, Wis. Harrow	274,066	Mar. 13	1048	289	23	1021
Ward, Thomas H., Tipton, county of Stafford, England. Machinery or apparatus for ascertaining and indicating weight	270,864	Jan. 16	1274	368 369	23	264
Ward, Thomas H., Tipton, county of Stafford, England. Game apparatus	287,352	Oct. 23	1989	542	25	380
Ward, William. (See Ward, Thomas B., W., and G. W.)						
Ward, William, Cleveland, Ohio. Glass roof	279,465	June 12	1069	296	23	2313
Ward, William S., Leadville, Colo. Ore-concentrator	276,738	May 1	272	69	23	1671
Wardell, Joshua M. (See Wade and Wardell.)						
Wardell, Philip, Toronto, Ontario, Canada. Pad to protect the corners of slate-frames	285,326	Sept. 18	1425	402	24	1165

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Wardin, Robert B., and J. C. Moore, Philadelphia, Pa.; said Wardin assignor to said Moore. Water-cooler stand	288,960	Nov. 20	1465	405	25	780
Wardman, William, assignor of one-half to G. A. Shoemaker, Bristol, Pa. Wool-combing machine	276,313	Apr. 24	1849	515	23	1567
Wardwell, Edward H., New York, N. Y. Manufacture of ammoniacal salts	273,411	Mar. 6	292	60	23	871
Wardwell, Simon W., Jr., Woonsocket, R. I. Wax-thread sewing-machine	270,710	Jan. 16	1097	314	23	229
Wardwell, Simon W., Jr., Woonsocket, R. I., assignor to Hautin Sewing Machine Company, New York, N. Y. Stripping device for wax-thread sewing-machines	270,709	Jan. 16	1097	314	23	229
Ware, Charles F., Camden, N. J. Suspensory bandage	286,657	Oct. 16	1103	297	25	216
Ware, Charles L., assignor to himself, J. H. Russell, and R. T. Oney, Huntington, W. Va. Automatic numbering-machine	276,986	May 1	588	154	23	1727
Ware, Charles V. (See Chinnock and Stephens, assignors.)						
Ware, Charles V. (See Stephens, John G., assignor.)						
Ware, Charles W. (See Frentress, Henry N., assignor.)						
Ware, Cleveland H., Wrentham, assignor to Lincoln, Bacon & Co., Plainville, Mass. Ornamental chain	283,542	Aug. 21	1291	361	24	745
Ware, Cleveland H., Wrentham, assignor to Lincoln, Bacon & Co., Plainville, Mass. Ornamental chain	289,874	Dec. 11	630	175	25	1003
Ware, Edmund R., Worcester, Mass. Journal-bearing	287,203	Oct. 23	1804	495	25	346
Ware, Edmund R., Worcester, Mass. Grinding and polishing machine	287,744	Oct. 30	2508	676	25	496
Ware, Edmund R., Worcester, Mass. Grinding and polishing machine	289,323	Nov. 27	1907	530	25	868
Ware, James, Union Hill, N. J. Making button-holes	278,473	May 29	2439	665	23	2075
Ware, James E., New York, N. Y. Fire-proof ceiling	277,814	May 15	1585	433	23	1912
Ware, John P., Mount Vernon, Mo. End-gate for wagons	290,374	Dec. 18	1944	350	25	1122
Ware, Maroni. (See Alters, Joseph K., assignor.)						
Ware, William F. (See Bruen, John T., assignor.)						
Warfield, Oliver D., Chicopee Falls, Mass. Calipers	288,961	Nov. 20	1466	405	25	780
Warfield, Solomon D., Baltimore, Md. Machine for cutting green corn from the cob	281,588	July 17	1556	426, 427	24	285
Waring, Arthur B., Boston, Mass., assignor to J. T. Waring, New York, N. Y. Felting-machine	288,747	Nov. 20	1214	332	25	733
Waring, George E., Jr., Newport, R. I., assignor to Drainage Construction Company, Boston, Mass. Wash-stand	277,963	May 22	1769	482	23	1949
Waring, George E., Jr., Newport, R. I., assignor to Drainage Construction Company, Boston, Mass. Sewering and draining towns	278,839	June 5	226	66, 67	23	2162
Waring, George H., assignor to himself and C. Miller, Indiantown, New Brunswick, Canada. Spike-machine	272,994	Feb. 27	1787	501	23	774
Waring, John B., assignor to American Diamond Rock Boring Company, New York, N. Y. Power rock-drill	271,168	Jan. 23	1655	476	23	332
Waring, John T. (See Waring, Arthur B., assignor.)						
Waring, John T., New York, N. Y. Method of and apparatus for making hat-bodies and other fabrics of carded fibers and disintegrated fibers	277,636	May 15	1383	373	23	1875
Waring, John T., New York, N. Y. Apparatus for manufacturing napped or filled yarns or threads	279,997	June 26	1707	479	23	2436
Waring, Richard S. (See Van Hoevenbergh, Henry, assignor.)						
Waring, Richard S., Pittsburg, Pa. Insulating compound for electric wires. (Reissue)	10,351	July 3	553	.....	24	97
Waring, Richard S., Pittsburg, Pa. Insulating material and preparation of the same	284,098	Aug. 28	1992	.....	24	883
Waring, Richard S., Pittsburg, Pa. Electric cable	290,375	Dec. 18	1245	350	25	1123
Waring, Richard S., Pittsburg, Pa., and J. B. Hyde, New York, N. Y.; said Hyde assignor to said Waring. Process of and apparatus for insulating wires for electric uses. (Reissue)	10,349	July 3	550	153	24	97
Waring, Richard S., Pittsburg, Pa., and J. B. Hyde, New York, N. Y.; said Hyde assignor to said Waring. Insulating material for electrical uses. (Reissue)	10,350	July 3	552	.....	24	97
Waring, Richard S., assignor to Standard Cable Company, Pittsburg, Pa. Joint-connection in lead-covered electric cables	284,099	Aug. 28	1994	555	24	883
Waring, Richard S., assignor to Standard Cable Company, Pittsburg, Pa. Truck for paying off electric cable	284,100	Aug. 28	1996	556	24	883
Warmoth, Madison M., Brandenburg, Ky. Cultivator	290,376	Dec. 18	1247	350	25	1123
Warne, Elijah, Easton, Pa. Illuminating apparatus	288,281	Nov. 13	610	167	25	622
Warne, Elijah, Easton, Pa. Method of and apparatus for reducing and disintegrating ores	289,587	Dec. 4	269	76	25	935
Warne, Mary A., St. Louis, Mo. Scissors-holder	287,745	Oct. 30	2511	676	25	487
Warner, Adalbert J. (See Warner, Joseph, assignor.)						
Warner, Albion and C. A., New York, N. Y. Interconvertible bedstead and table	277,637	May 15	1386	374	23	1676
Warner, Alfred D. (See Krebs, H. Johannes, assignor.)						
Warner Brothers. (See Tallman, John C., assignor.)						
Warner, Charles A. (See Warner, Albion and C. A.)						
Warner, Charles H., Boston, Mass. Velocipede	282,938	Aug. 7	544	154, 155	24	597
Warner, Charles H., assignor of one-half to Pope Manufacturing Company, Boston, Mass. Velocipede	283,306	Aug. 14	998	280	24	686
Warner, Edward B., San Francisco, Cal. Necktie-holder	280,694	July 3	427	121	24	76
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Telephone and signal circuit	284,102	Aug. 28	1998	556	24	884
Warner, Harry T., Chicago, Ill. Spring-roller for curtain-fixtures	290,821	Dec. 25	1850	512	25	1234
Warner, Ira D., Bridgeport, Conn. Ironing apparatus	279,293	June 12	841	233	23	2277
Warner, James C., assignor to Western Electric Company, Chicago, Ill. Spring-jack plug	273,648	Mar. 6	523	140	23	923
Warner, James C., assignor to Western Electric Company, Chicago, Ill. Spring-jack switch for telephone-exchanges	281,741	July 24	1769	481	24	326
Warner, Jasper P., Dowagiac, Mich. Swivel-coupling	276,903	Apr. 24	1715	474	23	1544
Warner, Joseph, Hartford, Conn., assignor of one-half to A. J. Warner, Chicago, Ill. Key-hole guard	275,553	Apr. 10	899	244	23	1388
Warner, Leman A., Freeport, Ill. Cushion-spring for chair backs, seats, &c	279,998	June 26	1709	479	23	2437
Warner, Lucien C. (See Pretty, William, Jr., assignor.)						
Warnholtz, Johannes. (See Schütt and Warnholtz.)						
Warnick, Charles P., assignor of one-half to C. Jahnke, Chicago, Ill. Car-starter	278,378	May 29	2324	636	23	2054
Warren, Alonzo, Boston, Mass. Sewing-machine trimmer	278,300	May 22	2208	606	23	2026
Warren, Andrew. (See Crecelius, Louis J., assignor.)						
Warren, Andrew. (See Terry, Ira C., assignor.)						
Warren, Andrew, St. Louis, Mo. Seal-lock	272,360	Feb. 13	959	267	23	618
Warren, Andrew, St. Louis, Mo. Seal-lock	284,519	Sept. 4	441	125	24	979
Warren, Charles F., *et al.* (See Hanson, Freeman, assignor.)						
Warren, Daniel D. (See Paige, William H., assignor.)						
Warren, Edmond A., assignor to himself and T. J. Moore, Brooklyn, N. Y. Lathe-stand	270,166	Jan. 2	399	115	23	81

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Warren, Edward K., Three Oaks, Mich., assignor of one-half to G. R. Holden, Michigan City, Ind. Whip	286,748	Oct. 16	1220	329	25	236
Warren, Edward K., Three Oaks, Mich., assignor of one-half to G. R. Holden, Michigan City, Ind. Corset-stiffener	286,749	Oct. 16	1221	330	25	236
Warren, George H. (See Wiswell, George T., assignor.)						
Warren, George H., Shelburne Falls, Mass. Carving-fork guard	279,294	June 12	842	233	23	2277
Warren, George H., Shelburne Falls, Mass. Fork-guard	286,658	Oct. 16	1104	297	25	216
Warren, George L., *et al.* (See Hanson, Freeman, assignor.)						
Warren, Henry J., West Bridgewater, assignor to F. Bryant, Cambridge, Mass. Electric gas-lighting burner	272,004	Feb. 6	515	138	23	529
Warren, Henry J., and H. F. Packard, Brockton, assignors to H. F. Chase, Boston, Mass. Apparatus for lighting gas by electricity	284,784	Sept. 11	779	217	24	1041
Warren, Jabez T., Le Roy, assignor to M. Nevinger, Attica, and M. Selden, administratrix of R. Selden, deceased, Stafford, N. Y. Potato-digging machine	282,135	July 31	2286	627	24	420
Warren, James G., Providence, R. I. Hand corn-sheller	280,887	July 10	679	191	24	127
Warren, John, Boston, assignor to himself, D. A. White, and C. F. Casey, trustees, Newton, Mass. Boot-treeing machine	289,044	Nov. 27	1575	434, 435	25	805
Warren, John H., Burlington Junction, Mo. Check-row dropper	290,950	Dec. 25	2009	554	25	1961
Warren, Marshall A., Boston, Mass. Adjustable clothes-drier frame	286,878	Oct. 16	1382	379	25	965
Warren, Murray H. (See Clark, Rollin C., assignor.)						
Warren, William, Warren, R. I. Stair-pad	281,325	July 17	1235	342	24	231
Warrington, Jesse. (See Marmon and Warrington.)						
Warrington, Jesse, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Roller-mill	277,525	May 15	1249	336, 337	23	1853
Wartenberg, Louis, Anaheim, Cal. Adjustable coupling for harness	278,474	May 29	2440	666	23	2075
Warwick, Thomas, Aston, near Birmingham, county of Warwick, England. Vehicle-wheel	289,733	Dec. 4	455	127, 128	25	966
Wash, Benjamin S., St. Louis, Mo. Fire-grate	277,526	May 15	1254	337	23	1854
Washburn, Albert L., Hartford, assignor of one-half to N. S. Perkins, New London, Conn. Thread-doubling machine	271,383	Jan. 30	1933	559	23	388
Washburn, Albert L., Meriden, assignor of one-half to N. S. Perkins, New London, Conn. Thread-doubling machine. (Reissue)	10,364	Aug. 7	556	157	24	600
Washburn, George W., West New Brighton, N. Y. Ear-jewel fastening	285,532	Sept. 25	1677	472	24	1215
Washburn, George W., West New Brighton, N. Y. Safety-catch for pins	288,897	Nov. 20	1388	383	25	765
Washburn & Moen Manufacturing Company. (See Boughton, George A., assignor.)						
Washburn & Moen Manufacturing Company. (See Brinkerhoff, Jacob and W. M., assignors.)						
Washburn & Moen Manufacturing Company. (See Childs, J. Wallace, assignor.)						
Washburn & Moen Manufacturing Company *et al.* (See Gunderson, Albert, assignor.)						
Washburn & Moen Manufacturing Company. (See Judson, Lyman P., assignor.) (Reissue.)						
Washburn & Moen Manufacturing Company *et al.* (See Kittleson, Ole O., assignor.)						
Washburn & Moen Manufacturing Company. (See Lenox, Edwin S., assignor.)						
Washburn & Moen Manufacturing Company *et al.* (See Upham, Andrew J., assignor.)						
Washburn & Moen Manufacturing Company. (See Watson, Edwin J., assignor.)						
Washburn & Moen Manufacturing Company *et al.* (See Root, William A., assignor.)						
Washburn & Moen Manufacturing Company *et al.* (See Stevens, Sidney M., assignor.)						
Washburn & Moen Manufacturing Company *et al.* (See Wells, David G., assignor.)						
Washburn, Morgan S., Billings, N. Y. Fire-escape	280,538	July 3	943	65	24	44
Washburn, Nathan, Allston, Mass. Car-wheel	279,466	June 12	1070	296	23	2313
Washington, George L., Matanzas, Cuba, assignor of one-half to J. D. Wolf, Philadelphia, Pa. Fiber for cordage, textile fabrics, &c	272,361	Feb. 13	960	.....	23	618
Washington, Wade, Huntington, W. Va. Corn-husking machine	283,173	Aug. 14	832	232, 233	24	654
Wass, Dyson D., assignor to himself, J. C. Henderson, S. Stuart, and T. Motley, New York, N. Y. Apparatus for removing impurities from feed-water	272,806	Feb. 20	1541	433	23	726
Wassell, Edwin D., Pittsburg, Pa. Metallurgic furnace	285,860	Oct. 2	101	29, 30	25	20
Wasson, Jesse, and R. T. Hitt, La Porte City, Iowa. Machine for working butter	286,879	Oct. 16	1383	379	25	265
Wassung, William, Springfield, Mass. Miter-box	286,097	Oct. 2	393	108	25	72
Waterbury Buckle Company. (See Buchanan, John, assignor.)						
Waterbury Clock Company. (See Lewis, Charles S., assignor.)						
Waterbury Horse Nail Company. (See Croft, Edward, assignor.)						
Waterhouse, Addison G., New York, N. Y. Electric-induction machine	271,169	Jan. 23	1657	476, 477	23	332
Waterhouse, Addison G., New York, N. Y. Mechanical movement	277,964	May 22	1770	482, 483	23	1949
Waterhouse, Al. (See Waterhouse, Mark A., assignor.)						
Waterhouse, Frank G., Sacramento, Cal. Electric-arc lamp	274,999	Apr. 3	145	41	23	1251
Waterhouse, Mark A., Chicago, Ill., assignor to A. Waterhouse, Durham, Me. Combined bustle and corset	290,505	Dec. 18	1435	397	25	1154
Waterhouse, Samuel, Boston, Mass. Steam-generator	288,524	Nov. 13	928	254	25	677
Waterhouse, Samuel S., Pleasantville, N. J., assignor to H. A. Willes, Philadelphia, Pa. Sash-holder	273,327	Mar. 6	113	32	23	853
Waterman, Anthony and F. L., Boston, Mass. Spark-arrester	274,967	Mar. 27	2092	578	23	1915
Waterman, Frederick L. (See Waterman, Anthony and F. L.)						
Waterman, Julius, New York, N. Y. Corset	290,829	Dec. 25	1852	512	25	1234
Waterman, Noble J., Detroit, Mich. Hand-truck	282,136	July 31	2287	628	24	420
Waterman, Stukely E., and F. H. Kelley, Pawtucket, R. I. Surface-gage	273,784	Mar. 13	711	192	23	964
Waterous, John, Brooklyn, N. Y. Composition of matter to be used for sealing fruit-cans, &c	288,525	Nov. 13	932	.....	25	677
Waterous, John, Brooklyn, N. Y. Sealing fruit and other cans	288,526	Nov. 13	932	254	25	677
Waters, Charles H., Groton, assignor to Clinton Wire Cloth Company, Clinton, Mass. Metallic lathing	273,412	Mar. 6	923	60	23	872
Waters, Edward P., Roseville, Ill. Hame-tug	278,475	May 29	2441	666	23	2075
Waters, Frank M., Springfield, Ohio. Mechanical movement	271,556	Jan. 30	2151	619	23	427
Waters, Horace H., Chicago, Ill. Wire-cloth-sample card	272,005	Feb. 6	516	138	23	529
Waters, James, Minneapolis, Minn. Pumping-engine	279,679	June 19	1330	370	23	2364
Waters, Robert H., Malden, Mass., assignor to Post Refrigerator Car Company, Portland, Me. Refrigerating structure	275,000	Apr. 3	147	41	23	1251
Waters, Robert H., Malden, Mass., assignor to Post Refrigerator Car Company, Portland, Me. Shelf for refrigerator-cars	278,757	June 5	102	29	23	2141
Waters, William C., San Francisco, Cal. Brake for winding or hoisting engines	281,810	July 24	1863	509	24	343
Waters, William H., Muskegon, Mich. Railway-frog	270,521	Jan. 9	853	248	23	177
Waters, William T., Atlanta, Ga. Railway-train telegraph	271,958	Feb. 6	451	123	23	520

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Waterson, Henry G., Kansas City, Mo. Holder for electrotype or stereotype plates	272,807	Feb. 20	1542	433	23	726
Watkins Automatic Signal Telegraph Company. (See Bulen, George F., assignor.)						
Watkins Automatic Signal Telegraph Company. (See Reeve, Thomas, assignor.)						
Watkins, Benjamin F., Johnstown, Pa. Making molds for steel castings	281,212	July 10	1083	.....	24	198
Watkins, George, Detroit, Mich. Device for adjusting roses to doors	280,539	July 3	245	65	24	44
Watkins, John N. (See Canaday, Winfield S., assignor.)						
Watkins, Luther M., assignor to Hagerstown Steam Engine and Machine Company, Hagerstown, Md. Fertilizer attachment for grain-drills	285,711	Sept. 25	1896	538, 539	24	1255
Watkins, Samuel H., Linn Flat, Tex. Motor	287,893	Nov. 6	130	38	25	530
Watkins, Thomas, Johnstown, Pa. Device for filling pipe-joints	274,868	Mar. 27	2083	578	23	1215
Watkins, Thomas, Portsmouth, N. H. Barrel-tap	290,722	Dec. 25	1723	475	25	1212
Watkinson, George, New Haven, Conn. Pants-protector	281,213	July 10	1084	298	24	198
Watkinson, George, New Haven, Conn. Tap-sole for rubber boots and shoes	282,423	July 31	2647	726	24	482
Watrous, James A., assignor of one-half to A. Backus, Green Spring, Ohio. Hot-air flue for heating stoves and furnaces	288,142	Nov. 6	430	121	25	583
Watrous, Thomas A., Wellsborough, Pa. Hand-truck	272,106	Feb. 13	656	178	23	565
Watson, Amasa B., *et al.* (See Gates, George W., assignor.)						
Watson, Charles S., Philadelphia, Pa. Envelope-moistener	282,247	July 31	2422	666	24	443
Watson, Edwin J., and C. S. Hall, Worcester, Mass. Manufacturing wire	279,295	June 12	843	.....	23	2277
Watson, Edwin J., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Machine for making pump-chains	280,422	July 3	101	27, 28	24	20
Watson, Edwin J., C. S. Hall, and P. Bauer, Worcester, Mass.; said Bauer assignor to said Watson and Hall. Coating for wire preparatory to drawing	284,345	Sept. 4	227	.....	24	943
Watson, Elijah S., Water Valley, Miss. Car for elevated railways	288,193	Nov. 6	493	137	25	593
Watson, Elijah S., Water Valley, Miss. Elevated railway	288,194	Nov. 6	494	137, 138	25	593
Watson, George A. (See Ellsworth, John J., assignor.)						
Watson, George E., Bannack City, Mont. Ter. Sleigh	282,811	Aug. 7	401	113	24	571
Watson, James, Jr. (See Crosby, George S., assignor.)						
Watson, James, Jr. (See Steele, Elbridge J., assignor.)						
Watson, James. (See Threlfall, Thomas, assignor.)						
Watson, James, London, England. Baling-press	283,838	Aug. 28	1655	467	24	824
Watson, James, Marinette, Wis. Window-screen	288,282	Nov. 13	611	168	25	622
Watson, James, Marinette, Wis. Automatic leak-valve for pumps	288,283	Nov. 13	612	168	25	623
Watson, John, assignor to himself and J. C. Conway, Buffalo, N. Y. Bit-brace	288,748	Nov. 20	1215	332	25	733
Watson, Lewis. (See Ressegieu, James, assignor.)						
Watson, Montgomery H., Dayton, Ohio. Envelope	276,314	Apr. 24	1850	515	23	1567
Watson, Nathan K., Wrightsville, Ga. Drag-saw	275,443	Apr. 10	763	203	23	1364
Watson & Newell. (See Costello, John, assignor.)						
Watson, Robert E., *et al.* (See Bushfield, Samuel B., assignor.)						
Watson, Robert S., Bay City, Mich. Knob attachment	276,942	May 1	536	138	23	1717
Watson, Sam, *et al.* (See Minot, Hiram P., assignor.)						
Watson, Thomas, Paisley, assignor to J. & P. Coats, Ferguslie Works, Paisley, county of Renfrew, Scotland. Combined bolster and step for spindles	279,680	June 19	1332	370	23	2364
Watson, Thomas, Paisley, assignor to J. & P. Coats, Ferguslie Works, Paisley, county of Renfrew, Scotland. Spinning-machine, &c	279,681	June 19	1333	371	23	2364
Watson, Thomas A. (See Goodwin, William H., assignor.)						
Watson, Thomas A., Everett, Mass. Telephone-exchange apparatus	280,266	June 26	2026	570	23	2493
Watson, Thomas A., Everett, assignor to American Bell Telephone Company, Boston, Mass. Telephone-switch	270,522	Jan. 9	853	248, 249	23	177
Watson, William, Chicago, Ill. Grain-elevator	282,424	July 31	2648	726, 727	24	483
Watson, William, Chicago, Ill. Grain-elevator	282,425	July 31	2650	727	24	483
Watson, William, Memphis, Tenn. Grain-elevator	281,214	July 10	1085	298, 299	24	198
Watson, William, Memphis, Tenn. Grain-elevator	282,812	Aug. 7	402	114	24	571
Watson, William, Memphis, Tenn. Grain-elevator	287,595	Oct. 30	2312	625	25	449
Watt, Christina L., Boston, Mass. Window-washing seat	290,506	Dec. 18	1436	397	25	1155
Watt, George, Richmond, Va. Fence	286,750	Oct. 16	1222	330	25	236
Watt, James H., Barnesville, Ohio. Chimney-cap	276,102	Apr. 17	1586	437	23	1514
Watt, Stewart, Barnesville, Ohio. Fire-place grate	282,813	Aug. 7	404	114	24	571
Watters, John, New York, N. Y. Box-loop	269,975	Jan. 2	180	52	23	37
Watters, John, New York, N. Y. Box-loop	269,976	Jan. 2	180	53	23	38
Watters, John, New York, N. Y. Box-loop	269,977	Jan. 2	181	53	23	38
Watters, John, New York, N. Y. Box-loop	271,170	Jan. 23	1659	477	23	333
Watters, John, New York, N. Y. Frame for carriage-curtain lights	277,388	May 8	1062	290	23	1819
Wattles, Luther H., Providence, R. I. Device for centralizing	272,107	Feb. 13	657	178	23	565
Watts, Amos, *et al.* (See Runk, Jacob L., assignor.)						
Watts, Harry, Knightstown, Ind. Two-wheeled vehicle	275,965	Apr. 17	1417	391	23	1486
Watts, James A., *et al.* (See Runk, Jacob L., assignor.)						
Watts, James S., Baltimore, and L. G. Watts, Pikesville, Md. Artificial stone	282,426	July 31	2652	.....	24	483
Watts, John. (See Segur, Harvy, assignor.)						
Watts, John W., Clarksville, Mo. Station-indicator	281,215	July 10	1087	299	24	199
Watts, Joseph O., Lineville, Iowa. Spectacle-case	275,795	Apr. 10	1207	331	23	1440
Watts, Lunsford G. (See Watts, James S. and L. G.)						
Waugh, Johnson S., assignor of one-half to K. E. Randall and L. Gast, Prospect, Ohio. Car-coupling	288,527	Nov. 13	933	255	25	677
Waughop, Charles W. (See Sebring, Henry K., assignor.)						
Way, Albert S., and J. W. Lutz, Springfield, Ohio. Car-coupling	270,865	Jan. 16	1277	369	23	264
Way, Eli B., Knobnoster, Mo. Churn	286,510	Oct. 9	909	246	25	175
Way, George A., Middleville, Mich. Fire-back for stoves	278,840	June 5	228	67	23	2162
Way, Orvill W., assignor of one-half to J. W. Dusenbury, Troy, N. Y. Stocking-clasp	288,749	Nov. 20	1216	332	25	733
Way, Samuel M., Hempstead, N. Y. Faucet for soda-fountains and other articles	290,823	Dec. 25	1853	512	25	1235
Wayland, Eli, Monroe City, Mo. Horse hay-rake	286,659	Oct. 16	1105	298	25	216
Wayland, Eli, Monroe City, and H. H. Wayland, Salisbury, Mo. Horse hay-rake	279,057	June 5	547	150	23	2217
Wayland, Henry H. (See Wayland, Eli and H. H.)						
Wayland, James, Newark, assignor to W. B. Gould, Montrose, N. J. Trunk-catch	288,284	Nov. 13	614	168	25	623
Wayne Agricultural Company. (See Fulgham, Jesse P., assignor.)						
Wayne, Edward S., *et al.* (See Schaeppi, Julius, assignor.)						
Weamer, George W., and F. T. Zimmerman, Auburn, Ind. Heating-drum	289,045	Nov. 27	1577	435	25	806
Weale, Henry P., assignor to himself, M. V. B. Hersom, Boston, and T. G. Abbott, Watertown, Mass. Automatic metallic packing	275,299	Apr. 3	532	145	23	1316
Weart, George W. (See Godley and Whittaker, assignors.)						
Weatherhead, Oscar E., Peekskill, N. Y. Facing for foundry-castings	272,808	Feb. 20	1543	.....	23	726

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Weatherly, Warren C., Grand Rapids, Mich. Glue-heater	280,540	July 3	245	66	24	44
Weatherly, William L., Philadelphia, Pa., assignor to G. P. Ide, Bruce & Co., Troy, N. Y. Standing collar for female wear	278,758	June 5	102	29	23	2141
Weathers, James, Indianapolis, assignor of one-half to J. A. Robbins, Columbus, Ind. Lifting-jack	273,649	Mar. 6	524	140	23	923
Weaver, Albert S., assignor, by mesne assignments, to himself and L. C. Angell, Providence, R. I. Electric cable support or hanger	285,327	Sept. 18	1426	403	24	1165
Weaver, Alfred C., Lake City, Minn. Machine for cleaning bottles	286,880	Oct. 16	1384	380	25	265
Weaver, Andrew J., St. Petersburg, Pa. Picture-frame holder	282,427	July 31	2653	728	24	483
Weaver, Devalson G. (See Wood, William H., assignor.)						
Weaver, George L., Boston, Mass. Telephonic annunciator	276,739	May 1	273	69	23	1671
Weaver, James C., assignor to himself and J. Felthoff, Cutler, Ind. Stock-car	284,103	Aug. 28	1999	556, 557	24	884
Weaver, James H., Chicago, Ill. Envelope	286,881	Oct. 16	1385	380	25	265
Weaver, James N. (See Hamm, Aron, assignor.)						
Weaver, John C., New York, N. Y. Clamp for panel lining or facing	286,243	Oct. 9	568	156	25	114
Weaver, Joseph P., Enfield, N. C. Combined cane and pipe case	275,100	Apr. 3	290	80	23	1276
Weaver, Noah. (See Morris and Weaver.)						
Weaver, Solomon F., near Portis, Kans. Corn-harvester	286,882	Oct. 16	1386	380, 381	25	265
Weaver, Theophilus, Harrisburg, Pa. Rotary measuring and self-closing faucet	272,176	Feb. 13	731	202	23	578
Weaver, Theophilus, Harrisburg, Pa. Nut-lock	275,001	Apr. 3	147	41, 42	23	1251
Webb, Browne W., London, England. Cashier's registering apparatus	274,424	Mar. 20	1515	416, 417	23	1111
Webb, Francis W., Crewe, county of Chester, England. Locomotive and traction engine	270,167	Jan. 2	399	115, 116	23	81
Webb, George B., Newark, N. J. Device for making lantern-pinions	289,478	Dec. 4	128	36	25	909
Webb, George B., assignor of one-half to Plumb & Marcus, Newark, N. J. Circuit-breaker for electric clocks	289,944	Dec. 11	708	200	25	1018
Webb, George H., Pawtucket, R. I. Press for making bolts	284,694	Sept. 11	660	186	24	1022
Webb, George H., Pawtucket, R. I. Machine for tapping nuts	284,695	Sept. 11	661	186	24	1022
Webb, George H., Pawtucket, R. I. Mechanism for trimming and chamfering nuts	285,447	Sept. 25	1579	444	24	1196
Webb, Jean F., Lebanon, Ill. Safety-guard for railway-frogs, &c	279,849	June 19	1522	426	23	2398
Webb, Jean F., Lebanon, Ill. Car-axle lubricator	286,098	Oct. 2	394	108	25	72
Webb, Morell A., Marengo, assignor of one-fourth to F. W. Bailey, Chicago, Ill. Book-mark	288,285	Nov. 13	615	168	25	623
Webb, Rodolphus, assignor to Landers, Frary & Clark, New Britain, Conn. Self-closing faucet	275,300	Apr. 3	533	145	23	1316
Webb, Samuel D. (See Hill, Webb, and Odell.)						
Webb, Samuel D., *et al.* (See Magruder, George C. W., assignor.)						
Webb, Samuel D., Washington, D. C. Workman's apron	277,178	May 8	844	223	23	1776
Webb, Samuel D., assignor of one-half to H. McNeill, Washington, D. C. Galley type-lock	274,681	Mar. 27	1859	517, 518	23	1177
Webb, Samuel D., assignor, by mesne assignments, of two-thirds to S. C. Hill, Washington, D. C. Galley type-lock. (Reissue)	10,424	Dec. 11	1012	284, 285	25	1073
Webb, Theodore W. (See Nicols and Webb.)						
Webber, Elbridge, assignor of one-half to C. Gifford, Gardiner, Me. Car-coupling	270,523	Jan. 9	835	249	23	177
Webber, Henry A., Rockton, Ill. Snow-plow	275,301	Apr. 3	534	145, 146	23	1316
Webber, Moses H., Boston, Mass. Mechanical movement	279,058	June 5	548	151	23	2217
Webber, W. S., *et al.* (See Blakely, Caleb J., assignor.)						
Weber, Adolph, *et al.* (See Smith, Alfred B., assignor.)						
Weber, Albert G., New York, N. Y. Separable button	290,614	Dec. 18	1575	433	25	1179
Weber, Benjamin. (See Smith, Thomas B., assignor.)						
Weber, Charles E., Monroeville, Ind. Window-shutter	271,384	Jan. 30	1934	559	23	389
Weber, Henry A. (See Roberts, Fabian J., assignor.)						
Weber, Henry A., Urbana, Ill., and M. A. Scovell, Sterling, Kans. Mechanism for defecating and clarifying the juices of sugar-cane, &c	285,938	Oct. 2	206	58	25	40
Weber, Henry A., Urbana, and M. A. Scovell, Champaign, Ill. Defecating the juice of sugar-producing plants	285,939	Oct. 2	207	.....	25	40
Weber, John K., Titusville, Pa. Stock-car	283,441	Aug. 21	1179	331	24	725
Weber, Kaspar. (See Spoehr, Fritz, assignor.)						
Weber, Nicholas F. (See Spengler, John, assignor.)						
Weber, Otto E., Dresden, Saxony, Germany. Machine for compressing pulverized substances	289,945	Dec. 11	709	200, 201	25	1018
Weber, Peter F., Columbus, Ind. Ironing-board	287,596	Oct. 30	2314	626	25	449
Weber, Theodore A., assignor to J. L. Clark, New York, N. Y. Machine for making barbed fence-wire	286,511	Oct. 9	910	246	25	175
Weber, Theodore A., assignor to J. L. Clark, New York, N. Y. Barbed fence-wire	286,512	Oct. 9	914	246	25	176
Weber, Valentin, Princeville, Ill. Check-row attachment for corn-planters	288,528	Nov. 13	934	255	25	678
Weber, William. (See Toll and Weber.)						
Weber, William F., Newark, N. J. Making dies	270,866	Jan. 16	1278	369	23	264
Weber, William F., Newark, N. J. Inlaying and embossing celluloid	275,343	Apr. 3	606	163	23	1328
Webley & Son, P. (See Webley and Brain, assignors.)						
Webley, Thomas W., and T. Brain, assignors to P. Webley & Son, Birmingham, county of Warwick, England. Breech-loader	275,737	Apr. 10	1127	308, 309	23	1427
Webster, Alexander. (See Denney, Harmer, assignor.)						
Webster, Benjamin, Bridgeport, Conn. Cut-off valve	272,809	Feb. 20	1543	433, 434	23	726
Webster, Charles E., New York, N. Y., assignor of one-half to R. Marsh, New Brunswick, N. J. Filler and faucet for oil-cans	285,712	Sept. 25	1898	539	24	1256
Webster & Comstock Manufacturing Company. (See Chivill, John, assignor.)						
Webster & Comstock Manufacturing Company. (See Webster and Chivill, assignors.)						
Webster, Hanson S., Glendale, assignor of two-thirds to J. E. Mulford, New York, and M. G. Lewis, Lowville, N. Y. Automatic car-brake	290,723	Dec. 25	1724	475, 476	25	1212
Webster, Hiram, East Aurora, N. Y. Hydraulic air-compressor	286,751	Oct. 16	1223	330	25	237
Webster, James, Solihull, county of Warwick, England. Composition or alloy of metals	274,537	Mar. 27	1689	.....	23	1147
Webster, James W., Monticello, Ill. Flue-stop	274,682	Mar. 27	1859	518	23	1178
Webster, John B., Los Angeles, Cal. Water-heater	289,194	Nov. 27	1753	487	25	837
Webster, John W., assignor to W. Deering, Chicago, Ill. Grain-binder	278,639	May 29	2640	722	23	2109
Webster, Joseph F., Needham, Mass. Pencil-fastener	276,512	Apr. 24	2105	585	23	1611
Webster Manufacturing Company. (See Kennan, Sidney T., assignor.)						
Webster, Octavius R., Belfast, Me. Can-opener	278,379	May 29	2325	636	23	2055
Webster, Ronena C., Sr., Lipscomb, Tenn. Public-hall exit	290,951	Dec. 25	2010	552	25	1261
Webster, Towner K., and J. Chivill, assignors to Webster & Comstock Manufacturing Company, Chicago, Ill. Screw-conveyer coupling	272,006	Feb. 6	517	130	23	529

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Webster, Towner K., and J. Chivill, assignors to Webster & Comstock Manufacturing Company, Chicago, Ill. Screw-conveyer	276,103	Apr. 17	1586	437	23	1514
Weckerly, Frank, *et al.* (See Ireton, William, assignor.)						
Weed, Alfred, Philadelphia, Pa. Machine for stripping file-blanks	287,072	Oct. 23	1638	450	25	316
Weed, Alfred, Philadelphia, Pa. Machine for grinding and dressing file-blanks	287,746	Oct. 30	2511	677	25	487
Weed, E. Beverly, Detroit, Mich. Honey-comb-foundation machine	283,442	Aug. 21	1180	332	24	725
Weed, Frederick T. (See Mason, James P., assignor.)						
Weed, John D., Buffalo, N. Y. Treadle for sewing-machines	273,921	Mar. 13	878	238	23	992
Weed, John D., Buffalo, N. Y. Fire-escape	277,389	May 8	1062	291	23	1819
Weed Sewing Machine Company. (See Thomas, Eddy T., assignor.)						
Weeden, Henry C., assignor to Phillips & Weeden, Boston, Mass. Flushing apparatus for tanks	274,156	Mar. 20	1171	323	23	1050
Weeden, William N., New Bedford, Mass. Music-box	283,307	Aug. 14	1000	280	24	686
Weeden, William N., Waterbury, Conn. Watch-case	284,926	Sept. 11	938	263	24	1071
Weeks, Albert W., Worcester, and L. St. Clair, Lynn, Mass. Shoe-tying machine	274,236	Mar. 20	1277	352, 353	23	1069
Weeks, Andrew J. and J. E., Littleton, N. H. Tanning	289,588	Dec. 4	272	.....	25	935
Weeks, Asa, Minneapolis, Minn. Spar-torpedo	273,413	Mar. 6	224	60	23	872
Weeks, Asa, Minneapolis, Minn. Rocket-torpedo	274,067	Mar. 13	1049	289, 290	23	1022
Weeks, Asa, Minneapolis, Minn. Device for launching rocket-torpedoes	274,068	Mar. 13	1053	290	23	1022
Weeks, Asa, Minneapolis, Minn. Floating torpedo	274,069	Mar. 13	1054	290, 291	23	1022
Weeks, Francis H., New York, N. Y. Handling freight	274,235	Mar. 20	1275	352	23	1069
Weeks, Horace, Boston, Mass., assignor to Corrugated Wire Fastening Company, Hartford, Conn. Nailing-machine	280,267	June 26	2027	570	23	2493
Weeks, John E. (See Weeks, Andrew J. and J. E.)						
Weems, David G. (See Drake and Weems.)						
Weems, David G., Baltimore, Md. Artificial stone	274,237	Mar. 20	1280	353	23	1070
Wegmann, Friedrich, Zurich, Switzerland. Roller-mill	276,104	Apr. 17	1587	438, 439	23	1514
Wehner, Christian, New York, N. Y. Middlings-purifier	287,597	Oct. 30	2315	636	25	449
Weidemann, Gustav, Newark, N. J. Bed-lounge	273,203	Feb. 27	2045	576	23	820
Weidenmann, Jacob, assignor to Kueffel & Esser, New York, N. Y. T-square	282,248	July 31	2423	666	24	443
Weidmann, Paul, Brooklyn, N. Y. Barrel-heater	282,814	Aug. 7	404	114	24	571
Weigell, August, Milwaukee, Wis. Pillow, bolster, or mattress	276,650	May 1	131	35	23	1649
Weigman, John B. (See Schanze and Weigman.)						
Weihmann, Henry A., Jr. (See Zeising and Weihmann.)						
Weik, Charles, Jr., Bristol, Pa. Car-coupling	279,059	June 5	549	151	23	2217
Weil, A. Leo. (See Arendt and Weil.)						
Weil, Lehman, New York, N. Y. Bathing-garment	286,660	Oct. 16	1105	298	25	216
Weil, Samuel, Boston, Mass. Shirt	279,467	June 12	1071	296	23	2313
Weiler, John, Griggsville, Ill. Road-cart	285,189	Sept. 18	1273	358	24	1136
Weiller, Lazare, Angoulême, Charente, France. Manufacture of silicious copper and bronze for making electric conductors	277,089	May 8	733	.....	23	1757
Weimann, Conrad L., New York, and J. Weimann, Brooklyn, N. Y. Waterproofing compound	275,738	Apr. 10	1130	.....	23	1427
Weimann, John. (See Weimann, Conrad L. and J.)						
Weimer, Peter L., Lebanon, Pa. Blast-furnace	287,204	Oct. 23	1805	495	25	346
Weimer, Peter P. (See Tverskoy, Nicholas N., assignor.)						
Weinberg, Carl A. W., *et al.* (See Healy, Michael L., assignor.)						
Weindel, John A. (See Weindel, Leonard and J. A.)						
Weindel, Leonard and J. A., St. Louis, Mo. Machine for dressing the interior of kegs	286,661	Oct. 16	1106	298	25	216
Weinhagen, Henry, Hoboken, N. J. Thermometer	278,380	May 29	2326	637	23	2055
Weinhagen, Henry, Hoboken, N. J., assignor to C. A. Tatum, New York, N. Y. Thermometer-tube. (Reissue)	10,274	Jan. 16	1301	375	23	268
Weinig, Paul, Hanau, Prussia, Germany, assignor to F. W. Wolf, Chicago, Ill. Malt-kiln floor	281,326	July 17	1235	342	24	231
Weinreich, Gustav A. (See Hardenberg and Weinreich.)						
Weinschenk, Gustave, Cambridge, Mass. Combined copy-holder and book-rest	289,195	Nov. 27	1754	487	25	838
Weinstock, Harris. (See Lubin, David, assignor.)						
Weir, Fredric C., Cincinnati, Ohio. Railway-switch	273,785	Mar. 13	711	192	23	964
Weir, Fredric C., Cincinnati, Ohio. Brace for railway switches and rails	273,786	Mar. 13	712	192	23	964
Weir, John B., assignor to W. S. Weir, Monmouth, Ill. Cultivator	273,787	Mar. 13	713	192, 193	23	964
Weir, Robert. (See Lee and Weir.)						
Weir, William S. (See Weir, John B., assignor.)						
Weir, William S., Monmouth, Ill. Cultivator	274,070	Mar. 13	1057	291	23	1023
Weirbach, Henry T., and M. B. Bitting, Allentown, Pa. Sandpapering-machine	277,090	May 8	734	192	23	1757
Weirick, John, Mifflinburg, Pa. Harness	276,105	Apr. 17	1591	439, 440	23	1515
Weis, Herman, Tonica, Ill. Lifting-jack	271,959	Feb. 6	452	124	23	520
Weis, Joseph, Jersey City, N. J. Circuit-instrument for electric railway-signals	277,390	May 8	1063	291	23	1819
Weiss, Albert R. and C. W., Brooklyn, N. Y. Drinking-vessel	278,205	May 22	2073	571	23	2002
Weiss, Charles W. (See Weiss, Albert R. and C. W.)						
Weiss, Charles W., Brooklyn, assignor of one-half to C. Kruse, New York, N. Y. Photographic passenger-recorder	283,174	Aug. 14	833	233	24	654
Weiss, Charles W., assignor to G. I. Cullmer, G. Corbett, S. A. Martin, Brooklyn, G. W. and W. W. Corbett, New Brighton, N. Y. Bag-sewing machine	290,952	Dec. 25	2011	554, 555	25	1961
Weiss, Henry W., Quakertown, Pa. Milk cooler and heater	280,695	July 3	428	121	24	76
Weiss, John C., assignor to himself and R. Voeth, Pittsburg, Kans. Corn planter and cultivator	270,524	Jan. 9	857	249	23	177
Weissenbach, Jacob, *et al.* (See Groebel, H. William, assignor.)						
Weitzell, John W. (See Smith and Weitzell.)						
Welbourn, Josiah M., Edison, Ohio. Grain-separator	281,589	July 17	1559	427	24	285
Welby, Thomas J. (See Jones, Marcus R., assignor.)						
Welch, Charles T. (See Purdy and Welch.)						
Welch, E. B. (See Trouvelot, George H. E., assignor.)						
Welch, Ebenezer B. (See Robinson, Thomas C., assignor.)						
Welch, Herman L., *et al.* (See Learned, Edward A., assignor.)						
Welch, James M. (See Kinney, Cyrus, assignor.)						
Welch, Reuel H., assignor of two-thirds to G. D. Barnard, St. Louis, Mo. Book-cover	270,560	Jan. 9	902	260	23	185
Welch, S. Frank, Mount Pleasant, Iowa. Excavating-machine	289,734	Dec. 4	456	128, 129	25	966

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Welch, Thomas, and G. Corbion, Jr., Philadelphia, Pa., assignors to C. H. Crawford, New York, N. Y. Button-hole sewing-machine	272,108	Feb. 13	658	179 180	23	565
Welch, William, J. Coughlin, and J. J. Mahoney, San Francisco, Cal. Splash-board for water-closets	271,557	Jan. 30	2152	619	23	427
Weld, Calvin J., assignor of one-half to G. W. Hooker, Brattleborough, Vt. Shingle-machine	273,650	Mar. 6	524	141	23	924
Weldon, Stephen, Philadelphia, Pa. Juvenile rocker	281,420	July 17	1351	372	24	251
Welds, Benjamin A., Jackson, Mich. Fence-lock	286,752	Oct. 16	1225	331	25	237
Weldy, Charles, and G. Witman, Reading, Pa. Hand-oiler	274,663	Mar. 27	1861	518	23	1178
Welker, Washington, Fremont, Ohio. Carriage-curtain fastening	285,090	Sept. 18	1153	321	24	1115
Weliver, George, Cass County, Mo. Sulky-plow attachment	275,444	Apr. 10	764	203	23	1365
Weller, Chester A., Sing Sing, assignor of one-half to E. Herzig, New York, N. Y. Drive-chain	282,689	Aug. 7	258	75	24	544
Weller, Jacob P., St. Louis, Mo. Tire for vehicle-wheels	276,943	May 1	536	139	23	1718
Weller, Jacob P., St. Louis, Mo. Tire-setter	276,944	May 1	537	139	23	1718
Weller, John. (See Venator and Weller.)						
Weller, Marvin E., Fort Plain, N. Y. Stove-damper	274,238	Mar. 20	1281	353	23	1070
Weller, Simon P., S. Wanee, and G. Roesch, Denver, Colo., assignors of one-fourth to A. Rische and C. A. Funke. Car-brake	274,869	Mar. 27	2084	579	23	1216
Weller, Simon P., and G. R. Roesch, Denver, Colo. Lubricating-cup	280,423	July 3	105	28	24	20
Weller, Thomas B., assignor of one-half to P. A. Largey, Butte City, Mont. Ter. Bob-sleigh	290,295	Dec. 18	1145	321	25	1104
Weller, Thomas W., Louisville, Ky., assignor to Brennan & Co., South Western Agricultural Works. Evaporator	287,487	Oct. 30	2161	587	25	420
Welles, Richard J., Chicago, Ill. Harness-pad	270,711	Jan. 16	1099	315	23	230
Welles, Richard J., Chicago, Ill. Machine for crimping harness-pads	270,712	Jan. 16	1100	315	23	230
Welles, Richard J., Chicago, Ill. Harness-pad machine	284,696	Sept. 11	663	186	24	1022
Welles, Richard J., Chicago, Ill., assignor to W. and T. B. Mills, Brooklyn, N. Y. Landing-net	273,651	Mar. 6	526	141	23	924
Welles, Richard J., assignor to C. C. Champlin and F. T. Spencer, Chicago, Ill. Countersink for bits	277,859	May 15	1641	447	23	1922
Welling, John E., Georgetown, Ky. Steam cooking apparatus	225,302	Apr. 3	535	146	23	1317
Welling, John E., assignor of one-half to A. Degaris, Georgetown, Ky. Flour-sifter	284,581	Sept. 4	516	144	24	991
Wellings, James H., *et al.* (See Lewis, Henry G., assignor.)						
Wellington, Charles A. (See Chase, Albert, assignor.)						
Wellington, Darius, Boston, Mass. Self-leveling basin for ships	270,525	Jan. 9	858	250	23	178
Wellington, Darius, Boston, Mass. Water-closet	271,752	Feb. 6	202	56	23	475
Wellington, Frank O., East Bridgewater, Mass. Hydrocarbon-engine	278,065	May 22	1889	518	23	1971
Wellington, Henry, Brooklyn, N. Y. Torch	284,346	Sept. 4	228	64	24	943
Wellington, Martha L., Brookline, Mass. Doll	285,448	Sept. 25	1580	444	24	1197
Wellman, Emilus A., Belfast, assignor to himself and J. F. Rogers, Searsport, Me. Presser-foot and gage for sewing-machines	288,529	Nov. 13	935	255	25	678
Wellman, Henry H. (See Bartlett, La Roy, assignor.)						
Wellman, Samuel T. (See Roby and Wellman.)						
Wellman, Samuel T., Cleveland, Ohio. Car-wheel	271,286	Jan. 30	1805	523	23	366
Wellman, Samuel T., Cleveland, Ohio. Rolling-mill	277,815	May 15	1586	433 434	23	1912
Wellman, Samuel T., Cleveland, Ohio. Rolling-mill	277,860	May 15	1642	447 448	23	1922
Wellman, Samuel T., Cleveland, Ohio. Cutter for revolving puddling-furnaces	285,861	Oct. 2	103	30, 31	25	20
Wellman, Seth A., Lee Centre, Ill. Hay-elevator	280,424	July 3	105	29	24	21
Wellman, Willard F., assignor, by mesne assignments, to himself and F. A. Howard, Belfast, Me. Adjustable head-rest for chairs	283,443	Aug. 21	1181	332	24	725
Wellmann, Fredrick, assignor of one-half to A. Vorck, New York, N. Y. Sole-plate for boots and shoes	290,155	Dec. 11	964	272	25	1065
Wells, Bezabel P., *et al.* (See Nugent, Richard C., assignor.)						
Wells, Charles C., Saratoga Springs, N. Y. Machine for coating pills	273,328	Mar. 6	114	33	23	853
Wells, Charles D., and C. A. Newlin, Millville, N. J. Wrench	285,449	Sept. 25	1580	444	24	1197
Wells, Charles R., and B. K. Lewis, Lynn, Mass. Boot and shoe sole finishing machine	275,873	Apr. 17	1316	363	23	1467
Wells, David G., Joliet, Ill., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass., and I. L. Elwood, De Kalb, Ill. Machine for spooling barbed fence-wire	288,530	Nov. 13	936	255	25	678
Wells, Frank O. (See Wells, Frederic E. and F. O.)						
Wells, Frederic E. and F. O., Greenfield, Mass. Tire-upsetter	269,901	Jan. 2	94	28	23	20
Wells, Frederick B., Montreal, Quebec, Canada. Spark-conductor for locomotives	283,839	Aug. 28	1658	468	24	824
Wells, George M., Boston, Mass., assignor to J. S. Smith, Chicago, Ill. Last	276,651	May 1	131	35	23	1649
Wells, George M., Boston, Mass., assignor to Solidity Iron Last Company, New York, N. Y. Jack for lasts	281,742	July 24	1769	481	24	326
Wells, George M., Boston, Mass., assignor to Solidity Iron Last Company, New York, N. Y. Last	288,286	Nov. 13	616	169	25	623
Wells, George W., and J. Preux, assignors to American Optical Company, Southbridge, Mass. Eyeglass	286,883	Oct. 16	1389	381	25	266
Wells, Harlan P., Salisbury, Mass. Jump-seat for carriages	285,450	Sept. 25	1581	445	24	1197
Wells, Harvey J., *et al.* (See Myers, John G. L., assignor.)						
Wells, Henry P., *et al.* (See Onderdonk, Lansing, assignor.)						
Wells, Henry W. (See Upham, Artemas B., assignor.)						
Wells, Horace E., Cleveland, Ohio. Disinfecting water-closets	276,106	Apr. 17	1592	440	23	1515
Wells, Isaac C., Three Mile Bay, N. Y. Brush	271,960	Feb. 6	452	124	23	520
Wells, James H., Vineland, N. J. Machine for bending and straightening bars	279,618	June 19	1252	347	23	2351
Wells, Jesse O., Des Moines, Iowa. Automatic circuit-closer for electric fire-alarms	277,965	May 22	1772	483	23	1949
Wells, Joseph L., Philadelphia, Pa. Insect-excluding device	274,425	Mar. 20	1517	417	23	1111
Wells, Justin R., Brooklyn, N. Y. Compound balanced steam-engine	278,841	June 5	229	67, 68	23	2162
Wells, Levi, Spring Hill, Pa. Butter-package	284,927	Sept. 11	938	263	24	1071
Wells, Parker, Lynn, Mass. Speed-governor	271,287	Jan. 30	1806	524	23	366
Wells, Parker, Lynn, Mass. Speed-governor	271,288	Jan. 30	1807	524	23	366
Wells, Philip F., assignor of one-half to H. A. Kipp, Milford, Mich. Spring-tooth harrow	274,684	Mar. 27	1862	518	23	1178
Wells, Philip F., assignor of one-half to H. A. Kipp, Milford, Mich. Spring-tooth	280,104	June 26	1841	519	23	2450
Wells, Samuel J., Chicago, Ill. Trunk-fastener	283,938	Aug. 28	1778	502	24	846
Wells, Thomas, near Decatur, Miss. Fertilizer	283,308	Aug. 14	1001	.....	24	687
Wells, Webster, Winchester, Mass., assignor, by mesne assignments, to Brunswick Ship's Berth Company, of Connecticut. Governor for swinging berths	279,619	June 19	1253	347	23	2351
Wells, Webster, Winchester, Mass., assignor, by mesne assignments, to Brunswick Ship's Berth Company, of Connecticut. Self-leveling ship's berth	280,977	July 10	792	220	24	145
Wells, William, New Providence, N. J. Water-meter	273,204	Feb. 27	2046	576	23	820
Wells, William D. (See Slayton and Wells.)						
Wells, William T., Hackensack, N. J. Locomotive	275,739	Apr. 10	1130	309	23	1427

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Welman, James. (See Beaumont and Welman.)						
Wels, Richard, Dessau, Germany. Friction-clutch	285,940	Oct. 2	209	59	25	40
Welsh, David, Washington, D. C. Fire-escape	278,301	May 22	2210	606	23	2026
Welsh, Morries, Quincy, Mass. Indicator-lock	289,196	Nov. 27	1755	488	25	838
Welsh, Thomas J., *et al.* (See Rudolph, Alexander, assignor.)						
Welsh, William H., Erie, Pa. Fire-escape	287,598	Oct. 30	2317	626	25	450
Welte, Emil, New York, N. Y. Mechanical musical instrument	287,599	Oct. 30	2318	627	25	450
Welton, Edwin D., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button-setting machine	284,928	Sept. 11	939	264	24	1071
Welty, James O., Nevada, Ohio. Bosom-ironing board	284,697	Sept. 11	664	187	24	1028
Wemple & Co. (See De Quillfeldt, Charles, assignor.)						
Wendell, Isaac P., Philadelphia, Pa. Bearing for car-axles	280,978	July 10	792	220	24	146
Wendell, Washington, Orange, Mass. Sewing-machine	286,662	Oct. 16	1106	298	25	217
Wendt, Arthur F., New York, N. Y. Water-bosh for blast-furnaces	277,638	May 15	1387	374	23	1876
Wengenroth, August, Troy, N. Y. Blow-gun	286,513	Oct. 9	915	247	25	176
Wenham, Francis H., Warbeck Road, Shepherd's Bush, county of Middlesex, England. Gas-lamp	281,590	July 17	1560	427	24	285
Wenigmann, Ernest, New York, N. Y. Conduit for street-pipes	285,328	Sept. 18	1427	403	24	1165
Wentling, Adam, assignor of one-half to C. H. Lawrence, Hiawatha, Kans. Tug-slide	289,479	Dec. 4	128	37	25	909
Wentworth, Charles H., Chicago, Ill. Child's carriage	283,939	Aug. 28	1779	502 503	24	847
Wentworth, Richmond A., Appleton, Me. Fish-trap or spring-hook	283,444	Aug. 21	1182	332	24	725
Wentzell, John B. (See Wentzell, William W. and J. B.)						
Wentzell, William W. and J. B., Harper's Ferry, W. Va. Moistening apparatus for cigars and tobacco	273,205	Feb. 27	2048	577	23	821
Wenzel, Hermann J., San Francisco, Cal. Watchman's time-detector	276,740	May 1	273	69	23	1671
Wenzel, John, Vernon, Ind. Stove-shelf	281,949	July 24	2031	555	24	373
Wenzell, George, assignor of one-half to H. J. Meier, Detroit, Mich. Spring-bed	277,639	May 15	1387	374	23	1876
Werden, John H., Winfield, Kans. End-gate	277,391	May 8	1084	291	23	1819
Werfield, William, Aurora, Nebr. Churn	277,091	May 8	735	193	23	1758
Werk, Emil, *et al.* (See Spooner, Samuel P., assignor.)						
Werk, Casimir L., Cincinnati, Ohio. Candle-machine	284,785	Sept. 11	781	217	24	1042
Werle, Henry, Sterling, Ill. Bung for barrels	273,788	Mar. 13	714	193	23	965
Werner, Emil, Philadelphia, Pa. Easel	281,591	July 17	1562	428	24	286
Werner, Emil, Philadelphia, Pa. Combined easel, artist's box, sketching-board, and stool	283,175	Aug. 14	834	233	24	655
Werner, Emil, Philadelphia, Pa. Store-service apparatus	283,543	Aug. 21	1292	361 362	24	745
Wernert, John M. J., Paw Paw, Mich. Door	278,066	May 22	1890	518	23	1971
Werneth, Francis J., Baltimore, Md. Curtain-cord tightener	275,303	Apr. 3	536	146	23	1317
Werts, Alexander A., Big Creek, S. C. Harrow	287,353	Oct. 23	1990	542	25	380
Werts, William, *et al.* (See Hope, Charles, assignor.)						
Werts, William, Camden, N. J. Press for molding glass	270,526	Jan. 9	860	250	23	178
Werts, William, Camden, N. J., assignor of one-half to W. H. Matteson, Philadelphia, Pa. Horseshoe-nail machine	280,268	June 26	2029	570 571	23	2493
Wertz, John S., Stanberry, Mo. Car-seal	286,514	Oct. 9	916	247	25	176
Weschler, Daniel D., Erie, Pa. Apparatus for making malt	270,619	Jan. 16	977	282	23	208
Wesel, Ferdinand, New York, N. Y. Stereotype-plate holder	276,204	Apr. 24	1716	475	23	1544
Wesp, William. (See Kroedel and Wesp.)						
Wessell, Otto. (See Schlüter, Rudolph, assignor.)						
Wesson, Daniel B., Springfield, Mass. Revolver	284,786	Sept. 11	782	218	24	1042
Wesson, Daniel B., Springfield, Mass. Lock for revolving fire-arms	285,862	Oct. 2	104	31	25	21
Wesson, Daniel B., Springfield, Mass. Safety attachment for gun-locks	289,875	Dec. 11	630	175	25	1003
Wesson, Isaac A., Wingo, Ky. Sulky-spring	275,445	Apr. 10	765	204	23	1365
Wesson, Walter D., Providence, R. I. Hand-stamp	286,884	Oct. 16	1390	381	25	266
West, Adam C., assignor of two-thirds to C. V. West, Blanchard, Mich. Plow	288,531	Nov. 13	937	256	25	678
West, Andrew, Birmingham, Iowa. Roundabout	288,898	Nov. 20	1390	383	25	765
West, Benjamin C. (See West, Redfield B., assignor.)						
West, Charles V. (See West, Adam C., assignor.)						
West, Clark S., Boston, Mass. Lamp-stove	274,426	Mar. 20	1518	417	23	1111
West, Clark S., Boston, Mass., assignor to West Oil Stove Company, of New Jersey. Steam cooker	284,104	Aug. 28	2000	557	24	884
West, Edmund B., Philadelphia, Pa. Car brake and starter	279,999	June 26	1710	479	23	2437
West, Francis H., Milwaukee, Wis. Steam-trap and boiler-feeder	276,107	Apr. 17	1593	440	23	1515
West, Francis H., Milwaukee, Wis. Steam-trap	281,592	July 17	1563	428	24	286
West, John C., assignor of two-thirds to O. N. Baldwin, Clarksville, Mo. Railway-switch	285,190	Sept. 18	1274	358	24	1136
West, Marshall O., Port Chester, N. Y. Shirt	272,810	Feb. 20	1544	434	23	726
West, Marshall O., Port Chester, N. Y. Dickey	290,953	Dec. 25	2013	555	25	1261
West, North. (See Swaney, David A., assignor.)						
West Oil Stove Company. (See West, Clark S., assignor.)						
West, Redfield B., assignor of one-half to B. C. West, Guilford, Conn. Photographic printing	273,206	Feb. 27	2050	.....	23	821
West, Robert S. (See Beecher and West.)						
West, Stillman A., Racine, Wis. Burnishing-machine for boots and shoes	288,532	Nov. 13	939	256	25	678
West, Thomas L., Palatine, Ill. Evaporator	285,713	Sept. 25	1899	539	24	1256
West, William, Denver, Colo., assignor of one-half to H. Pennock, New York, N. Y. Apparatus for concentrating sulphuric acid	280,425	July 3	107	29	24	21
Westcott, Charles S. (See Hoke, Walter S., assignor.)						
Westcott, John M., assignor to Hoosier Drill Company, Richmond, Ind. Grain-seeding machine	271,961	Feb. 6	453	124	23	520
Westerbeck, Frederick, St. Louis, Mo. Shipping-can	282,690	Aug. 7	259	75	24	544
Westerfield, William C., assignor to J. H. and E. F. Earl, Chicago, Ill. Device for holding and cutting paper	284,105	Aug. 28	2001	557	24	884
Westerman, George, Jr., Lockport, and W. T. Miller, Buffalo, N. Y. Composition for target-balls	290,296	Dec. 18	1145	321	25	1104
Western Electric Company. (See Barrett, John A., assignor.)						
Western Electric Company. (See Firman, Leroy B., assignor.)						
Western Electric Company. (See Haskins, Charles D., assignor.)						
Western Electric Company. (See Hibbard, Angus S., assignor.)						
Western Electric Company. (See Patterson, William R., assignor.)						
Western Electric Company. (See Phelps, George M., Jr., assignor.)						
Western Electric Company. (See Scribner, Charles E., assignor.)						
Western Electric Company. (See Warner, Ernest P., assignor.)						
Western Electric Company. (See Warner, James C., assignor.)						

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Western Electric Company. (See Wilson, Charles H., assignor.)						
Western Electric Manufacturing Company. (See Haskins, Charles D., assignor.)						
Western Electric Manufacturing Company. (See Scribner, Charles E., assignor.)						
Western Leather Manufacturing Company. (See Glover, Frank W. T., assignor.)						
Western Union Telegraph Company. (See Fenn, Joseph E., assignor.)						
Western Union Telegraph Company. (See Field, Stephen D., assignor.)						
Western Union Telegraph Company. (See Van Hoevenbergh, Henry, assignor.)						
Western Union Telegraph Company. (See Vansize and Buckingham, assignors.)						
Westervelt, Edmund C., South Bend, Ind. Wooden plate	284,347	Sept. 4	230	65	24	943
Westfall, Augustus M., *et al.* (See Shamp, George W., assignor.)						
Westgate, Joseph D., Manchester, N. H., assignor of one-half to W. H. Hodgdon, Lynn, Mass. Automatic vent for water-pipes	290,824	Dec. 25	1854	513	25	1235
Westinghouse, George, Jr., Pittsburg, Pa. Cock-grinding machine	270,527	Jan. 9	861	250, 251	23	178
Westinghouse, George, Jr., Pittsburg, Pa. Air-brake pressure-regulator	270,528	Jan. 9	862	251	23	179
Westinghouse, George, Jr., Pittsburg, Pa. Electric circuit for railway-signaling	270,867	Jan. 16	1279	389	23	264
Westinghouse, George, Jr., Pittsburg, Pa. Fluid-pressure regulator	280,269	June 26	2031	572	23	2494
Westinghouse, George, Jr., Pittsburg, Pa. Track-circuit connector	282,249	July 31	2423	666	24	443
Westinghouse, George, Jr., Pittsburg, Pa. Track-circuit connector	282,250	July 31	2425	667	24	443
Westinghouse, George, Jr., Pittsburg, Pa. Fluid-pressure-gage tester	287,894	Nov. 6	131	38, 39	25	530
Westinghouse, George, Jr., Pittsburg, Pa. Connection for railway-brakes	288,388	Nov. 13	764	206	25	648
Westinghouse, George, Jr., Pittsburg, Pa. Boiler-feeder	290,507	Dec. 18	1438	397	25	1155
Westinghouse, H. Herman, Pittsburg, Pa. Steam-engine lubricating attachment	271,005	Jan. 23	1461	420	23	300
Weston, Charles H., Yarmouth, Me. Toggle-press	276,108	Apr. 17	1595	440, 441	23	1516
Weston, Clinton H., Mount Clemens, Mich. Oscillating guide for gang-saws	286,351	Oct. 9	725	194	25	142
Weston, David M., Boston, Mass. Centrifugal machine	275,874	Apr. 17	1317	363	23	1467
Weston, David M., Boston, Mass. Centrifugal machine	275,875	Apr. 17	1321	364	23	1468
Weston, Edward, Newark, N. J. Electric light	271,172	Jan. 23	1061	478	23	333
Weston, Edward, Newark, N. J. Magnetic speed-indicator	277,179	May 8	845	223	23	1777
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Incandescent electric lamp	271,171	Jan. 23	1660	478	23	333
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electric-arc lamp	271,173	Jan. 23	1663	478, 479	23	333
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Device for regulating the electrical transmission of power	272,362	Feb. 13	960	267	23	618
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Device for regulating the electrical transmission of power	272,363	Feb. 13	962	268	23	618
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Device for regulating the electrical transmission of power	272,364	Feb. 13	964	269	23	619
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. System for the electric transmission of power	272,365	Feb. 13	966	269	23	619
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Dynamo-electric machine	272,366	Feb. 13	967	270	23	619
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electric-arc lamp	272,367	Feb. 13	967	270	23	620
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Controlling the electrical transmission of power	273,329	Mar. 6	116	33	23	854
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Incandescent-lamp holder	274,427	Mar. 20	1519	418	23	1111
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Bracket for incandescent lamps. (Reissue)	10,299	Mar. 27	2113	588	23	1220
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Circuit-controlling device	277,640	May 15	1388	374	23	1876
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Bracket for electric incandescent lamps	277,641	May 15	1389	375	23	1876
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Bracket for electric incandescent lamps	277,642	May 15	1391	375	23	1877
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electric-lamp fixture	277,643	May 15	1391	375	23	1877
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Dynamo-electric machine	277,644	May 15	1392	375	23	1877
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electric lamp and holder therefor	277,645	May 15	1394	376	23	1877
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electric lamp and holder	277,646	May 15	1395	376	23	1877
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Regulator for dynamo-electric machines	278,640	May 29	2641	722	23	2110
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Dynamo-electric machine	278,641	May 29	2643	723	23	2110
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Bracket or fixture for incandescent lamps	278,642	May 29	2646	724	23	2110
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Indicator for secondary batteries	282,428	July 31	2655	728	24	484
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Vacuum apparatus	283,544	Aug. 21	1295	362	24	746
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Vacuum-pump	283,545	Aug. 21	1296	363	24	746
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electro-magnetic motor	283,546	Aug. 21	1298	363	24	746
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electrical meter	283,547	Aug. 21	1299	363	24	747
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Dynamo-electric machine	283,548	Aug. 21	1300	364	24	747
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Apparatus for producing vacuums	283,549	Aug. 21	1301	364	24	747
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Apparatus for charging and discharging secondary batteries	285,714	Sept. 25	1901	540	24	1256
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electric-arc lamp	285,715	Sept. 25	1903	540	24	1257
Weston, Edward, Newark, N. J., assignor to Weston Electric Light Company. Electric lamp	285,451	Sept. 25	1582	445	24	1197
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Safety cut-out for electro-magnetic motors	289,197	Nov. 27	1757	488	25	838

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Apparatus for regulating and controlling the electrical transmission of power	289,198	Nov. 27	1758	488	25	839
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Electric-circuit breaker	289,199	Nov. 27	1761	488	25	839
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Dynamo or magneto electric machine	289,200	Nov. 27	1762	489	25	839
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. System of generating and regulating electric currents	289,324	Nov. 27	1909	530 531	25	868
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Regulator for dynamo or magneto electric machines	289,325	Nov. 27	1910	531	25	868
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Regulator for electrical generators	289,326	Nov. 27	1911	531	25	869
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Apparatus for treating carbon conductors	289,327	Nov. 27	1913	532	25	869
Weston, Edward, Newark, N. J., and L. E. Curtis, New York, N. Y. Apparatus for charging and discharging secondary batteries	289,328	Nov. 27	1914	532	25	869
Weston Electric Light Company. (See Weston, Edward, assignor.)						
Weston, Erastus D. (See Hart, Fred O., assignor.)						
Weston, Frederick, Brixton, county of Surrey, England, assignor to Weston Gas Improvement Company, of New York. Apparatus for increasing the illuminating-power of gas	286,515	Oct. 9	916	247	25	177
Weston Gas Improvement Company. (See Weston, Frederick, assignor.)						
Weston, Henry, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown	275,554	Apr. 10	899	244	23	1388
Weston, Henry, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown	277,392	May 8	1085	292	23	1819
Weston, Henry, and E. T. Starr, assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown	287,354	Oct. 23	1990	543	25	380
Weston, Robert, Norwalk, Ohio. Horseshoe	270,713	Jan. 16	1101	315	23	230
Weston, Stephen M., and C. T. Shanner, Somerville, Ind. Rotary colter	272,368	Feb. 13	369	270	23	620
Weston, Thomas A., assignor to Yale Lock Manufacturing Company, Stamford, Conn. Brake mechanism for a trolley of a crane	272,608	Feb. 20	1293	360 361	23	680
Weston, William W., Honesdale, Pa. Glass butter jar, box, and cover	289,589	Dec. 4	273	77	25	935
Westphal, Henry, Chicago, Ill. Revolving shot-case	280,979	July 10	793	220 221	24	146
Westphal, Henry, Chicago, Ill. Revolving flower-stand	283,840	Aug. 28	1659	468	24	894
Westphal, Oscar F., San Francisco, Cal. Castanet	273,414	Mar. 6	225	61	23	872
Westphal, Robert, Berlin, Germany. Machine for polishing paper, textile fabrics, &c.	274,685	Mar. 27	1863	519	23	1178
Westwood, John, Lynn, Mass. Shoe-soling machine	273,207	Feb. 27	2051	577	23	821
Wetherbee, Albert C., assignor of one-half to A. Aitken, Hammonton, N. J. Thill-coupling	274,428	Mar. 20	1520	418	23	1112
Wethered, Edwin R., Woolwich, county of Kent, England. Sash-fastener	287,747	Oct. 30	2514	678	25	487
Wetherell, George F. (See Jones and Wetherell.)						
Wetherell, George F., *et al.* (See Jones, Richard B., assignor.)						
Wetherill, William M. (See Ferguson, Grismore, and Wetherill.)						
Wetmore, Jean A., Concord, Mich. Electric-arc light	272,811	Feb. 20	1546	434	23	727
Wetmore, Jerome W., Erie, Pa. Seat-spring for vehicles	275,446	Apr. 10	766	204	23	1365
Wetmore, Jerome W., Erie, Pa. Seat-spring for vehicles	275,555	Apr. 10	901	244	23	1388
Wetmore, Jerome W., Erie, Pa. Wagon-tongue support	279,895	June 19	1577	442	23	2408
Wetmore, Jerome W., Erie, Pa. Vehicle-spring	289,046	Nov. 27	1578	435 436	25	806
Wetmore, Orlando, Nevada, Mo. Locomotive attachment	284,520	Sept. 4	443	196	24	979
Wetter Brothers. (See Suter, Frederick, assignor.)						
Wetzel, Albert, Jr. (See Hartman and Wetzel.)						
Wetzel, Charles H., assignor of one-half to E. Rummelmeyer, Butte City, Mont. Ter. Concentrator	290,825	Dec. 25	1855	513	25	1235
Wetzel, Charles M. (See Young, Neil, and Wetzel.)						
Wever, John M., *et al.* (See Wilkinson, John D., assignor.)						
Wever, Willis L., *et al.* (See Wilkinson, John D., assignor.)						
Weyburn, George W., Goshen, Ind. Pump-casing	280,105	June 26	1842	519	23	2461
Weyhrich & Co., P. (See Irwin, John W., assignor.)						
Weymouth, Richard W., Denver, Colo. Elevator-brake	290,297	Dec. 18	1146	321	25	1104
Wharry, James A. (See Freeland and Wharry.)						
Wharton, John C., Nashville, Tenn. Rotary engine	290,508	Dec. 18	1440	398	25	1155
Wharton, Joseph. (See Otterson, Thomas J., assignor.)						
Wharton Railroad Switch Company. (See Johnston, Edward H., assignor.)						
Wharton, Richard, assignor of one-half to W. Whitaker, Philadelphia, Pa. Thread guide and tension device	272,812	Feb. 20	1547	434	23	727
Wharton, William, Jr., Philadelphia, Pa. Traction-rope railway	281,593	July 17	1565	428	24	286
Wharton, William, Jr., Philadelphia, Pa. Transferring cars from one track to another	282,815	Aug. 7	405	114	24	572
Wheat, Corydon, Geneva, N. Y. Combined ventilating and heating apparatus	285,533	Sept. 25	1679	472	24	1215
Wheat, John J., assignor to C. Lilly, Indianapolis, Ind. Sewing-machine table and cover	285,534	Sept. 25	1679	472	24	1215
Wheat, John J., assignor to C. Lilly, Indianapolis, Ind. Tension-liberator for sewing-machines	285,535	Sept. 25	1680	473	24	1216
Wheat, John J., assignor to C. Lilly, Indianapolis, Ind. Sewing-machine	285,536	Sept. 25	1681	473	24	1216
Wheat, John J., assignor to C. Lilly, Indianapolis, Ind. Sewing-machine shuttle movement	285,537	Sept. 25	1681	473 474	24	1216
Wheeler, Algernon S., New Orleans, La. Bagasse-washing and saccharine-extracting machine	276,513	Apr. 24	2106	585	23	1611
Wheeler, Candace T., New York, N. Y. Fabric for needle-woven tapestries	271,174	Jan. 23	1665	479 480	23	334
Wheeler & Co., F. A. (See Albey, John, assignor.)						
Wheeler, David C. (See Wheeler, Dwight and D. C.)						
Wheeler, Dwight and D. C., Bridgeport, Conn. Manufacture of hat frames and bodies	280,980	July 10	794	221	24	146
Wheeler, Dwight and D. C., Bridgeport, Conn. Covering hat-frames	280,981	July 10	796	221	24	146
Wheeler, Dwight and D. C., Bridgeport, Conn. Hat-binding	280,982	July 10	796	221	24	146
Wheeler, Dwight and D. C., Bridgeport, Conn. Manufacturing hats	286,244	Oct. 9	569	156	25	114
Wheeler, Edward W., Chicago, Ill. Dress-lining	272,813	Feb. 20	1549	435	23	727
Wheeler, Elijah H. (See Holden, William G., assignor.)						
Wheeler, Frank and W. W., Meriden, Conn. Ore-crusher	285,538	Sept. 25	1682	474	24	1216
Wheeler, Harlan B., assignor to J. A. Wheeler, Noble, Ill. Self-drop corn-planter	272,392	Feb. 13	1013	283	23	626
Wheeler, Henry, Chambersville, Mo. Socket-wrench	269,902	Jan. 2	95	28	23	20
Wheeler, Henry, Dudenville, Mo. Wrench	279,896	June 19	1577	442	23	2408
Wheeler, Henry, Dudenville, Mo. Combined bolt-holder and screw-driver	284,787	Sept. 11	783	218	24	1042

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Wheeler, Henry F., assignor to Union Twist Drill Company, Leominster, Mass. Grinding-machine for producing the relief on twist and fluted drills	286,663	Oct. 16	1110	299	25	217
Wheeler, Hiram M., Smithson, Ind. Apparatus for utilizing the waste heat of stove-pipes and chimneys	284,106	Aug. 28	2002	557	24	885
Wheeler, James J., assignor to Craver, Steele & Austin, Grinnell, Iowa. Shaft-coupling	283,940	Aug. 28	1781	503	24	847
Wheeler, James L., Stillwater, Minn. Jar	280,888	July 10	679	191	24	127
Wheeler, Jane A. (See Wheeler, Harlan B., assignor.)						
Wheeler, John A. (See Pelton, Charles H., assignor.)						
Wheeler, John E. (See Raymond and Wheeler.)						
Wheeler, John M. (See Kimball, Charles M., assignor.)						
Wheeler, Jonas A., Vandalia, Mo. Lubricator for engine-cylinders	283,176	Aug. 14	835	233	24	655
Wheeler, Laurens S., Independence, Kans. Harrow	279,060	June 5	550	151	23	2217
Wheeler, Madden & Clemson Manufacturing Company. (See McChesney, George G., assignor.)						
Wheeler & Melick Company. (See Melick and Colbert, assignors.)						
Wheeler, Milo L. G., Oregon City, Oreg. Force-pump	280,106	June 26	1842	519	23	2461
Wheeler, Nathaniel, Bridgeport, Conn. Railway-car	273,415	Mar. 6	226	61	23	872
Wheeler, Nathaniel, Bridgeport, Conn. System of heating and ventilating buildings	285,539	Sept. 25	1684	474	24	1217
Wheeler, Orson H., Charlesworth, Mich. Injector	273,652	Mar. 6	527	142	23	924
Wheeler, Paris H., Washington, D. C. Machine for packing dry-plates for photographers	282,939	Aug. 7	548	155	24	508
Wheeler, Richard, Alameda, Cal. Canning apparatus	270,529	Jan. 9	864	251	23	179
Wheeler, Schuyler S. (See Crocker, Curtis, and Wheeler.)						
Wheeler, Schuyler S., New York, N. Y. Electric elevator	273,208	Feb. 27	2052	577, 578	23	821
Wheeler, Schuyler S., C. G. Curtis, and F. B. Crocker, New York, N. Y. Electric motor	271,175	Jan. 23	1667	490	23	334
Wheeler, Seth, Albany, N. Y. Manufacture of wrapping-paper	272,369	Feb. 13	970	271	23	620
Wheeler, Seth, Albany, N. Y. Preventing offset in web-printing	284,929	Sept. 11	941	264	24	1072
Wheeler, Seth, Albany, N. Y. Paper-holding device	289,735	Dec. 4	459	129	25	966
Wheeler, Stephen. (See Rice, Alvah, assignor.)						
Wheeler, William, Concord, Mass. Focus-regulator for electric-arc lamps	280,426	July 3	108	29	24	21
Wheeler, William W. (See Wheeler, Frank and W. W.)						
Wheeler & Wilson Manufacturing Company. (See Neely, William A., assignor.)						
Wheelock, Eva E., *et al.* (See Wheelock, John A., assignor.)						
Wheelock, George J., Oakland, assignor of one-half to N. Beauregard, San Francisco, Cal. Dumping-car	290,298	Dec. 18	1147	322	25	1104
Wheelock, Jerome, Worcester, Mass. Relief-valve for engine-cylinders	269,978	Jan. 2	181	53	23	38
Wheelock, Jerome, Worcester, Mass. Injector-condenser	269,979	Jan. 2	182	53	23	38
Wheelock, Jerome, Worcester, Mass. Injector-condenser	278,476	May 29	2442	666	23	2075
Wheelock, John A., assignor to E. E. Wheelock, P. Kline, and A. Clark, Amsterdam, N. Y. Device for truing misshapen hose-couplings	284,107	Aug. 28	2002	558	24	885
Wheelock, John W., Albany, N. Y. Sad-iron holder	274,157	Mar. 20	1172	324	23	1051
Whelen, James N. (See Tevis, Edwin L., assignor.)						
Wheless, Wesley N., Augusta, Ga. Stamping-machine	289,047	Nov. 27	1578	436	25	806
Wherry, William B., Overton, Tex. Landside for plows	283,729	Aug. 21	1519	428	24	789
While, Joseph, Cleveland, Ohio. Manufacturing car-coupling pins	273,417	Mar. 6	228	62	23	873
Whippell, Thomas V. (See McKimm, Edgar N., assignor.)						
Whipple, Clarence F., Chicago, Ill. Weather-strip	274,158	Mar. 20	1175	324	23	1051
Whipple, John A. (See Porter, Daniel R., assignor.)						
Whipple, John P., Whitewater, Wis. Paint-distributer	280,696	July 3	430	122	24	77
Whipple, John P., Whitewater, Wis. Paint-distributer	289,048	Nov. 27	1580	436	25	806
Whipple, Polcy, *et al.* (See Alexander, Samuel G., assignor.)						
Whipple, William V., Boston, Mass. Hat and bonnet stand	288,287	Nov. 13	617	169	25	623
Whissemore, John H., Mansfield, Ohio. Stove-bracket	273,653	Mar. 6	528	142	23	924
Whitacre, Thomas L., East Rochester, Ohio. Wrench for wagon-axle nuts	284,521	Sept. 4	444	126	24	980
Whitaker, Argalus F. (See Crismon and Whitaker.)						
Whitaker, David W., assignor of one-half to R. B. Boone, Roxborough, N. C. Printer's imposing-stone	286,979	Oct. 16	1512	415	25	286
Whitaker, Edwin V., Gloversville, N. Y. Glove	284,150	Aug. 28	2064	572	24	894
Whitaker, Elijah J. B., New York, N. Y. Automatic feed-gear for animals	288,143	Nov. 6	431	121	25	583
Whitaker, Elisha F., Gouldsborough, Me. Hay-rack	272,109	Feb. 13	662	180	23	566
Whitaker, James B., Loretto, Va. Book-support for writing-desks	276,514	Apr. 24	2108	586	23	1611
Whitaker, John A. (See Case and Whitaker.)						
Whitaker, Joseph C., *et al.* (See Henwood, John, assignor.)						
Whitaker, Richard, assignor to A. L. Fisher, New Brunswick, N. J. Metal-crimping tool	287,784	Oct. 30	2565	690	25	497
Whitaker, Thomas, and S. D. Moore, Macon, Ill. Check-rower	273,789	Mar. 13	715	193, 194	23	965
Whitaker, William. (See Wharton, Richard, assignor.)						
Whitall, James, *et al.* (See Leake, Lewis C., assignor.)						
Whitall, Tatum & Co. (See Atwater, Richard M., assignor.)						
Whitcomb, Aaron J., Chicopee, assignor of one-third to A. W. Anderton, Chicopee Falls, Mass. Lawn-mower	274,239	Mar. 20	1283	353	23	1071
Whitcomb, Calvin M. (See Hall, Whitcomb, and D'Ewart.)						
Whitcomb, Edward A., Cincinnati, Ohio. Welding-flux	277,393	May 8	1087	.....	23	1890
Whitcomb, George D., Chicago, Ill. Pick for mining-machines	280,541	July 3	246	66	24	44
Whitcomb, George D., Chicago, Ill. Pick for mining-machines	280,542	July 3	247	66	24	44
Whitcomb, George D., Chicago, Ill. Pick for mining-machines	280,543	July 3	248	66	24	45
Whitcomb, George D., Chicago, Ill. Coal-mining machine	280,544	July 3	248	67	24	45
Whitcomb, John B., Beloit, Wis. Vehicle-spring attachment	288,604	Nov. 13	1027	282	25	695
Whitcomb, Simeon P., Hornellsville, N. Y. Spring bed-bottom	288,533	Nov. 13	939	256	25	679
White, Addison, assignor of one-half to J. L. Rison, Huntsville, Ala. Game-carrier	276,945	May 1	538	139	23	1718
White, Andrew J. (See Zerbe and White.)						
White, Arthur M. (See Shaffer and White.)						
White, Charles. (See Billings, John D., assignor.)						
White, Charles, assignor to Scott Manufacturing Company, Baltimore, Md. Can-opener	273,416	Mar. 6	227	61	23	872
White, Charles D., assignor to Perry Mason & Co., Boston, Mass. Addressing-machine	270,714	Jan. 16	1102	315	23	230
White, Charles H., New York, N. Y. Gong for street-cars	271,176	Jan. 23	1669	480	23	334
White, Charles N., Colby's Station, Mich. Washing-machine	271,385	Jan. 30	1934	560	23	389
White, Chauncey C., Peckville, Pa. Can for holding blasting-cartridges	287,785	Oct. 30	2566	690	25	497
White, Clarence O., assignor of one-half to H. H. Johnson, Minneapolis, Minn. Pendulum-escapement	284,788	Sept. 11	784	218	24	1042
White, Courtland S. (See Jackson and White.)						
White, Daniel A., *et al.*, trustees. (See Warren, John, assignor.)						
White, Delos M., Hudson, Wis., and J. Hitchcock, St. Paul, Minn. Sand-band	279,682	June 19	1333	371	23	2364

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
White Dental Manufacturing Company, S. S. (See Burk, William E., assignor.)						
White Dental Manufacturing Company, S. S. (See Crosthwaite, James D., assignor.)						
White Dental Manufacturing Company, S. S. (See Gilbert, John W., assignor.)						
White Dental Manufacturing Company, S. S. (See Gilbert and Starr, assignors.)						
White Dental Manufacturing Company, S. S. (See Housel, Joseph R., assignor.)						
White Dental Manufacturing Company, S. S. (See How, Woodbury S., assignor.)						
White Dental Manufacturing Company, S. S. (See Johnston, William A., assignor.)						
White Dental Manufacturing Company, S. S. (See Johnston, Browne, Starr, and Gilbert, assignors.)						
White Dental Manufacturing Company, S. S. (See Porter, David T., assignor.)						
White Dental Manufacturing Company, S. S. (See Ross, Robert M., assignor.) (Reissue.)						
White Dental Manufacturing Company, S. S. (See Starr, Eli T., assignor.)						
White Dental Manufacturing Company, S. S. (See Taylor, William H., assignor.)						
White Dental Manufacturing Company, S. S. (See Weston, Henry, assignor.)						
White Dental Manufacturing Company, S. S. (See Weston and Starr, assignors.)						
White, Eliza A. (See Ryder, Martin H., assignor.)						
White, Francis M., assignor of one-half to D. B. Williams, Winigan, Mo. Harness-pad press	276,946	May 1	539	139	23	1718
White, George, Greenville, Pa. Vehicle	285,863	Oct. 2	105	31	25	21
White, George, Boston, Mass. Gear	290,299	Dec. 18	1148	322	25	1104
White, George A., Boston, Mass. Heel lift and tap	283,048	Aug. 14	686	192	24	629
White, George A., Boston, Mass. Bundling-machine	283,049	Aug. 14	687	193	24	629
White, George A., Boston, Mass. Manufacturing heel lifts and taps	287,488	Oct. 30	2162	587	25	420
White, George H., Escanaba, Mich. Coal and ore chute	271,386	Jan. 30	1935	560	23	389
White, Hawley C., North Bennington, Vt. Stereoscope	281,743	July 24	1770	482	24	326
White, Henry C., Jug Tavern, assignor to himself and H. L. Spencer, Social Circle, Ga. Cotton chopper, cultivator, and plow	284,930	Sept. 11	942	264	24	1072
White, Henry J., Auburn, N. Y. Swing	281,216	July 10	1069	300	24	199
White, Henry K., assignor to Wilcox & White Organ Company, Meriden, Conn. Reed-organ	274,686	Mar. 27	1865	520	23	1179
White, Henry K., assignor to Wilcox & White Organ Company, Meriden, Conn. Reed-organ action	286,516	Oct. 9	918	248	25	177
White, J. Clarence, *et al.*, trustees. (See Grout, Charles P., assignor.)						
White, J. Clarence, *et al.*, trustees. (See Starr, Eli T., assignor.)						
White, James, Canton, Ohio. Burglar-proof safe	287,787	Oct. 30	2570	691, 692	25	498
White, James H., assignor to Manhattan Brass Company, New York, N. Y. Lamp	283,177	Aug. 14	836	234	24	655
White, James W., *et al.*, trustees. (See Grout, Charles P., assignor.)						
White, James W., *et al.*, trustees. (See Starr, Eli T., assignor.)						
White, James W., *et al.* (See Starr, Eli T. and E. E., assignors.)						
White, James W., Philadelphia, Pa. Anti-slipping sandal or shoe	287,748	Oct. 30	2515	678	25	487
White, Jarvis N. B., Mansfield, assignor to R. F. Simmons, E. L. Hixon, and J. L. Sweet, Attleborough Falls, Mass. Ring for charms	288,899	Nov. 20	1399	383	25	766
White, Jessie W., Red River Iron Works, Ky. Car-coupling	284,108	Aug. 28	2006	558	24	885
White, John E., Cleveland, Ohio, assignor to H. A. Coit, Concord, N. H. Railway-car	273,922	Mar. 13	879	239, 240	23	992
White, John S., Portland, Me. Brush	282,137	July 31	2288	628	24	420
White, John S., Portland, Me. Bristle-washing machine	282,940	Aug. 7	548	155	24	598
White, John W., Dedham, Mass., and J. C. Farmer, Providence, R. I. Horseshoe	280,889	July 10	681	191	24	127
White, Joseph P., Savannah, Ga. Lock	271,962	Feb. 6	454	124	23	521
White, Joseph W., Brighton, Iowa. Corkscrew	280,697	July 3	431	122	24	77
White, Le Roy S., Waterbury, Conn. Electric gas lighting and extinguishing device	282,816	Aug. 7	406	115	24	572
White, Le Roy S., Waterbury, Conn. Electric call and signal	284,348	Sept. 4	231	65	24	943
White, Leonard A., Taunton, Mass. Stove	286,664	Oct. 16	1112	299	25	218
White, Leonard A., Attleborough, assignor to Taunton Iron Works Company, Taunton, Mass. Stove-shelf	279,620	June 19	1254	348	23	2351
White, Merritt, Adams, Mass. Nautical signal	284,522	Sept. 4	444	126	24	980
White, Merritt F., and D. G. Sheridan, Bridgeport, Conn. Combined bridle and halter	290,826	Dec. 25	1856	513	25	1235
White, Micajah C. (See Holman, William J., assignor.)						
White, Miller, Gatesville, Tex. Washing-machine	286,245	Oct. 9	570	157	25	114
White, Milton, Sr., Philadelphia, Pa. Toy or self-righting egg	276,109	Apr. 17	1596	441	23	1516
White, Nelson S., Canton, Mass. Manufacture of metallic-surfaced india-rubber fabric	278,206	May 22	2073	.....	23	2003
White, Nelson S., Canton, Mass. Electric lighting apparatus	289,590	Dec. 4	274	77	25	935
White, Otis C., Hopkinton, Mass. Mechanical movement	279,897	June 19	1578	442	23	2408
White, Peter, St. Louis, Mo. Hydrant	270,354	Jan. 9	628	185	23	132
White, Peter, St. Louis, Mo. Valve	270,355	Jan. 9	629	185	23	133
White, Peter, St. Louis, Mo. Water-closet valve	285,191	Sept. 18	1275	358	24	1137
White, R. Cornell, *et al.* (See Dey, David P., assignor.)						
White Ralph M. (See O'Conner and White.)						
White, Reynolds T., Boston, Mass. Routing-machine	275,002	Apr. 3	149	42	23	1251
White, Reynolds T., Boston, Mass. Invalid-bedstead	276,515	Apr. 24	2108	586	23	1612
White, Rollin, Lowell, Mass. Ring for spinning and twisting frames and traveler therefor	290,377	Dec. 18	1249	351	25	1123
White, Ross, New York, N. Y. Paper-holder	271,177	Jan. 23	1670	481	23	334
White, Samuel K. (See Bradwell and White.)						
White, Samuel K., assignor to E. P. Hatch, Chicago, Ill. Machine for cutting grain	286,980	Oct. 16	1513	416	25	986
White, Samuel S. (See Starr, Eli T., assignor.)						
White Sewing Machine Company. (See Baker, George W., assignor.)						
White Sewing Machine Company. (See Shaw, William, assignor.)						
White, Thomas C., Carterville, Ill. Coffee-roaster	274,538	Mar. 27	1690	469	23	1147
White, Van Rensslear G., assignor to W. Bartholomay, Rochester, N. Y. Branding-machine	289,480	Dec. 4	129	37	25	909
White, Welcome, Everett, Mass. Roofing composition	282,138	July 31	2288	.....	24	420
White, Welcome, Everett, Mass. Roofing-felt	282,139	July 31	2289	628	24	420
White, William. (See Don, William, assignor.)						
White, William, McMinnville, Tenn. Brake-shoe	277,647	May 15	1396	376	23	1678
White, William B., Quincy, Mass. Case for eyeglasses and spectacles	289,946	Dec. 11	711	201	25	1018
White, William H., Cincinnati, Ohio. Combined harrow, roller and cultivator	288,900	Nov. 20	1392	384	25	766
White, William H., and H. F. Ruddell, Atlanta, Ga. Car-coupling	287,749	Oct. 30	2517	678	25	487
White, William O., Lake Village, and W. D. Huse, Laconia, N. H. Steam-trap	278,381	May 29	2328	637	23	2055
White, William R., Neoga, Ill. Sliding gate	282,140	July 31	2290	628, 629	24	420
White, William R., Aurora, Nebr. Seed-planter	283,178	Aug. 14	837	234	24	655
White, William W., Kirksville, Ohio. Feed-rack	285,716	Sept. 25	1905	541	24	1257
Whiteford, James, Greenock, county of Renfrew, Scotland. Permanent way of railways	273,923	Mar. 13	880	240	23	993

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Whitehall, Samuel. (See Newlin and Whitehall.)						
Whitehead & Atherton Machine Company. (See Potter, James, assignor.)						
Whitehead & Atherton Machine Company. (See Whitehead, William E., assignor.)						
Whitehead, John B., *et al.* (See Buie, Duncan M., assignor.) (Reissue.)						
Whitehead, Samuel B., San Francisco, Cal. Hand or wire vise	269,903	Jan. 2	95	28	23	20
Whitehead, Samuel B., San Francisco, Cal. Ticket-distributing box	286,352	Oct. 9	727	194	25	142
Whitehead, Thomas, assignor to Porter Needle Company, Watertown, Mass. Sewing-machine shuttle	279,208	June 12	743	204	23	2260
Whitehead, William E., assignor to Whitehead & Atherton Machine Company, Lowell, Mass. Carding-machine	270,715	Jan. 16	1104	316	23	231
Whitehead, William E., assignor to Whitehead & Atherton Machine Company, Lowell, Mass. Carding-machine	275,447	Apr. 10	767	204	23	1365
Whitehead, William E., assignor to Whitehead & Atherton Machine Company, Lowell, Mass. Railway-head	284,585	Sept. 4	521	146	23	992
Whitehead, William E., Lowell, Mass., assignor to Whitehead & Atherton Machine Company. Carding-machine	271,558	Jan. 30	2152	620	24	427
Whitehill, Robert. (See Dixon, Charles A., assignor.)						
Whitehill, Robert, Milwaukee, Wis. Sewing-machine	279,621	June 19	1255	348	23	2351
Whitehill, Robert, Milwaukee, Wis. Sewing-machine stand and treadle	279,622	June 19	1259	349	23	2352
Whitehill, Robert, Milwaukee, Wis. Hub for couplings or pulleys	279,623	June 19	1260	349	23	2352
Whitehill, Robert, Milwaukee, Wis. Shaft-hanger	279,624	June 19	1261	349	23	2352
Whitehill, Robert, Milwaukee, Wis. Sewing-machine shuttle	279,625	June 19	1262	349	23	2353
Whitehurst, Robert W., assignor of two-thirds to A. and M. L. Wrenn, Norfolk, Va. Plow	275,304	Apr. 3	536	147	23	1317
Whitehurst, Robert W., assignor of two-thirds to A. and M. L. Wrenn, Norfolk, Va. Baling-press	282,017	July 24	2113	579	24	386
Whiteley, Fassler & Kelly. (See Whiteley and Bayley, assignors.)						
Whiteley, Fassler & Kelly. (See Whiteley, Bayley, and Lee, assignors.)						
Whiteley, Fassler & Kelly. (See Whiteley, William N., assignor.)						
Whiteley, William N., *et al.* (See Green, George F., assignor.)						
Whiteley, William N., assignor to Whiteley, Fassler & Kelly, Springfield, Ohio. Reaper and mower	284,931	Sept. 11	943	265	24	1072
Whiteley, William N., and W. Bayley, Springfield, Ohio. Traction-wheel for harvesters	279,061	June 5	551	151	23	2217
Whiteley, William N., and W. Bayley, assignors to Whiteley, Fassler & Kelly, Springfield, Ohio. Knotting mechanism for self-binders	274,870	Mar. 27	2084	579	23	1216
Whiteley, William N., W. Bayley, and L. H. Lee, assignors to Whiteley, Fassler & Kelly, Springfield, Ohio. Self-binder	274,071	Mar. 13	1058	292	23	1023
Whiteley, William N., W. Bayley, and L. H. Lee, assignors to Whiteley, Fassler & Kelly, Springfield, Ohio. Self-binder	283,445	Aug. 21	1183	332, 333	24	725
Whitelock, Samuel E. (See Ireton and Whitelock.)						
Whitelock, Samuel E., *et al.* (See Ireton, William, assignor.)						
Whitely, William, Housatonic, Mass. Safety-stop for elevators	282,817	Aug. 7	408	115	24	572
Whitely, William, Housatonic, Mass. Rag-engine for paper-making	282,818	Aug. 7	409	115	24	572
Whiteman, Abram V., New York, N. Y. Stopper or cover for bottles or jars	275,101	Apr. 3	290	80	23	1276
Whiteman, Abram V., New York, N. Y. Stopper for bottles and jars	284,523	Sept. 4	446	126	24	980
Whiteman, John B., Centerville, Oreg. Gate	290,509	Dec. 18	1441	398	25	1156
Whitenbarger, Henry. (See Bear and Whitenbarger.)						
Whiteside, James L., Chattanooga, Tenn. Auger	277,966	May 22	1773	483	23	1950
Whitesides, George C., Philadelphia, Pa. Water-gage reflector	270,530	Jan. 9	805	252	23	179
Whitfield, John A., *et al.* (See Brooks, Austin A., assignor.)						
Whitfield, William A. (See Boone and Whitfield.)						
Whiting, Albert, assignor to C. Whiting, Rochester, N. Y. Apparatus for scouring and fleshing hides, &c	275,305	Apr. 3	538	147	23	1318
Whiting, Catharine. (See Whiting, Albert, assignor.)						
Whiting, Charles D., Chicago, Ill. Car-brake	286,353	Oct. 9	727	195	25	142
Whiting, Eleanor, assignor one-half to J. M. Smith, Brooklyn, N. Y. Car-axle box	274,159	Mar. 20	1175	324, 325	23	1051
Whiting, Eleanor, and J. N. Smith; said Smith assignor to J. M. Smith, Brooklyn, N. Y. Car-truck	274,160	Mar. 20	1178	325	23	1052
Whiting, George A. (See Malone and Whiting.)						
Whiting, Henry A., Brooklyn, and W. J. Winghart, New York, N. Y. Combined umbrella and cane	288,144	Nov. 6	432	121	25	583
Whiting, Henry W. (See Blumenberg and Whiting.)						
Whiting, James M., assignor of one-half to J. Carroll, and G. C. Eliott, Providence, R. I. Car-wheel	282,593	Aug. 7	144	43	24	526
Whiting, John L., Boston, Mass. Brush	271,559	Jan. 30	2154	620	23	428
Whiting, Lewis P., Cleburne, Tex. Car-coupling	276,205	Apr. 24	1716	475	23	1544
Whiting, Nathaniel T., San Francisco, Cal. Elevated water-tank	288,901	Nov. 20	1393	384	25	766
Whiting, Stiles H. (See Dean and Whiting.)						
Whiting, William D., North Attleborough, Mass. Manufacture of sewing-thimbles	273,924	Mar. 13	883	240	23	993
Whitlock, Daniel, Newark, N. J. Heeling-machine	287,429	Oct. 30	2163	587, 588	25	420
Whitlock, E. Walter, New Haven, Conn. Tube-coiling machine	280,983	July 10	797	222	24	146
Whitlock, Sturges, New Haven, Conn. Air-cushioning device	284,524	Sept. 4	447	127	24	980
Whitman Agricultural Company. (See Kelley, Patrick J., assignor.)						
Whitman, Gustavus F., St. Louis, Mo. Baling-press	274,871	Mar. 27	2085	579	23	1216
Whitman, James N., and T. A. Taylor, Beverly, Mass. Channeling and grooving knife	277,092	May 8	736	193	23	1758
Whitman, James N., and T. A. Taylor, Beverly, Mass. Groover for channeling-machines	277,093	May 8	737	193	23	1758
Whitman, Josiah P., Ithaca, Mich. Carriage-top-bow support	272,814	Feb. 20	1551	435	23	727
Whitman, Orrin M., Boston, Mass. Refrigerator or butter-cooler	279,296	June 12	844	234	23	2277
Whitmire, C. M., *et al.* (See Thomas, John W., assignor.)						
Whitmore, Andrew E., Springfield, Mass. Breech-loading fire-arm	282,941	Aug. 7	550	155, 156	24	598
Whitmore, Andrew E., Springfield, and J. Tonks, Malden, Mass. Breech-loading fire-arm	282,429	July 31	2656	728	24	484
Whitmore, Enoch, San Francisco, Cal. Two-wheeled vehicle	272,815	Feb. 20	1551	435	23	727
Whitney, Arthur E., Winchester, Mass. Machine for unhairing, scouring, and fleshing hides	280,698	July 3	431	122	24	77
Whitney, Benjamin F., Eldon, Iowa. Car-coupling	275,306	Apr. 3	539	147	23	1318
Whitney, Benjamin P., Potter Valley, Cal. Two-wheeled vehicle	272,177	Feb. 13	734	203	23	579
Whitney, Catherine M. (See Whitney, William A., assignor.)						
Whitney, Charles, assignor to himself, C. W. and W. W. Marsh, Sycamore, Ill. Grain-binder	279,297	June 12	845	234, 235, 236	23	2277
Whitney, Charles, assignor to himself, C. W. and W. W. Marsh, Sycamore, R. Emerson, and W. A. Talcott, Rockford, Ill. Grain-harvesting machine	281,811	July 24	1864	509, 510	24	343

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Whitney, Charles, assignor to himself, C. W. and W. W. Marsh, Sycamore, Ill. Grain-binder	283,179	Aug. 14	838	234 235	24	656
Whitney, Charles P., Milford, N. H. Folding umbrella	274,687	Mar. 27	1866	520	23	1179
Whitney, Edwin R., Montreal, Quebec, Canada. Secondary battery	277,394	May 8	1087	292	23	1820
Whitney, Eli, New Haven, Conn. Magazine fire-arm	273,654	Mar. 6	528	142	23	924
Whitney, Frank A. (See Carter, John H., assignor.)						
Whitney, Frank J., *et al.* (See Bush, Arthur W., assignor.)						
Whitney, James A., Dobb's Ferry, N. Y. Envelope or covering for cigars	271,006	Jan. 23	1462	421	23	300
Whitney, James F., Hartford, Conn. Centering device	272,995	Feb. 27	1789	501	23	774
Whitney, James H., Brooklyn, N. Y. Sewing-machine	275,966	Apr. 17	1418	391	23	1486
Whitney, Jonah D. (See Penn and Whitney.)						
Whitney, Leonard, *et al.* (See Keith, Thomas K., assignor.)						
Whitney, Leonard F., and T. K. Keith, Haverhill, Mass. Permutation-lock	279,298	June 12	851	236	23	2278
Whitney, Lewis, Salisbury, and H. K. Jackson, Amesbury, Mass. Picker-staff check for looms	285,941	Oct. 2	210	59	25	40
Whitney, Ruel W., New York, N. Y. Automatic tension for sewing-machines	277,094	May 8	738	193	23	1758
Whitney, Ruel W., New York, N. Y., assignor of one-half to J. Crowell, Jr., Glenville, Ohio. Lock for drawers	276,516	Apr. 24	2110	586	23	1612
Whitney, William A., assignor to himself and C. M. Whitney, Hudson, Mich. Wheelbarrow	290,156	Dec. 11	964	272	25	1065
Whitney, William F., Poughkeepsie, N. Y. Rack for pool-balls	272,609	Feb. 20	1294	361	23	681
Whitsett, Barton A., Lebanon, Ind. Tenon and turning chuck	271,753	Feb. 6	203	57	23	475
Whittaker, Henry B. (See Godley and Whittaker.)						
Whittemore, Albert O. (See Huntley, Rollin D., assignor.)						
Whittemore, D. (See Eppler and Ray, assignors.)						
Whittemore, David H., Worcester, Mass. Apple parer, corer, and slicer	273,418	Mar. 6	229	62	23	873
Whittemore, J. H. (See North, John, assignor.)						
Whittemore, James R., *et al.* (See Farr, George, assignor.)						
Whittemore, John A., Springfield, Mass. Car-coupling	289,049	Nov. 27	1581	436	25	806
Whittemore, Kendall W., and L. J. Couch, Providence, R. I. Portable blackboard	288,145	Nov. 6	433	122	25	583
Whitten, Alonzo H., *et al.* (See Silliman, Herbert R., assignor.)						
Whittier, Charles, Boston, Mass. Elevator	275,003	Apr. 3	151	42	23	1252
Whittier, George. (See Locke, Charles S., assignor.)						
Whittier, Joseph G., Attica, Ind. Sole and upper protector	289,736	Dec. 4	459	129	25	967
Whittier, William H., Fremont, Nebr. Hay and straw furnace	272,110	Feb. 13	662	180	23	506
Whittingham, Charles, Cleveland, Ohio, and J. Whittingham, Detroit, Mich., assignors of one-third to W. A. Murray, Cleveland, Ohio. Vapor-burner	270,268	Jan. 9	521	153	23	112
Whittingham, Joseph. (See Whittingham, Charles and J.)						
Whittington, George W., Xenia, Ohio. Car-coupling	276,110	Apr. 17	1597	441	23	1516
Whittington, Virginia, Valdosta, Ga. Brace-corset	283,050	Aug. 14	688	193	24	629
Whittle, John T., assignor of one-half to J. I. Vogeler, Baltimore, Md. Tumbler-washer	289,737	Dec. 4	460	130	25	967
Whitzel, Russell B., assignor to P. Wilson & Sons, Cincinnati, Ohio. Hame	279,510	June 12	1127	312	23	2392
Whitzel, Russel B., assignor to P. Wilson & Sons, Cincinnati, Ohio. Hame	279,511	June 12	1127	312	23	2392
Whitzel, Russel B., assignor to P. Wilson & Sons, Cincinnati, Ohio. Hame	282,819	Aug. 7	411	116	24	573
Whitzel, Russell B., assignor to P. Wilson & Sons, Cincinnati, Ohio. Snap-hook	287,397	Oct. 23	2045	556	25	390
Whitzel, Russell B., assignor to P. Wilson & Sons, Cincinnati, Ohio. Hame	287,398	Oct. 23	2046	556	25	390
Whorf, Charles F., St. Louis, Mo. Oven for oil and gas stoves	271,670	Feb. 6	101	27	23	457
Whyte, James. (See Meatyard and Whyte.)						
Whyte, Oliver, Boston, Mass. Broiler	285,864	Oct. 2	106	31	25	21
Wiard, Edward, Louisville, Ky. Plow	279,469	June 12	1071	297	23	2313
Wiard, George, assignor to Wiard Plow Company, Batavia, N. Y. Chilled plow-point	277,816	May 15	1587	434	23	1912
Wiard, George, assignor to Wiard Plow Company, Batavia, N. Y. Sulky-plow	278,643	May 29	2648	724	23	2110
Wiard, Harry, and W. R. Bullock, Syracuse, N. Y. Sulky-plow	286,517	Oct. 9	918	248	25	177
Wiard, Norman, assignor to R. C. Schenck and H. D. Cooke, Washington, D. C. Manufacture of gunpowder	273,209	Feb. 27	2058	578 579	23	822
Wiard Plow Company. (See Wiard, George, assignor.)						
Wich, Conrad. (See Fisher, Bernard, assignor.)						
Wich, Henrietta, administratrix. (See Fisher, Bernard.)						
Wichman, Frederick J. H., *et al.* (See Eger, John, assignor.)						
Wickersham, Eli, Chicago, Ill., assignor of one-half to G. P. Merrill, St. Louis, Mo. Hand-truck	272,817	Feb. 20	1554	436	23	728
Wickersham, Henry N. (See Huston, William, assignor.)						
Wickersham, Henry N., *et al.* (See Mills, Isaac N., assignor.)						
Wickersham, Henry N., and W. Huston, Wilmington, Del. Ejector	272,816	Feb. 20	1553	435	23	728
Wickersham, Henry N., and W. Huston, Wilmington, Del. Exhaust-nozzle	285,192	Sept. 18	1275	358	24	1137
Wickersham, James T., Red Oak, Iowa. Mechanical movement	278,644	May 29	2649	724	23	2111
Wickersham, Samuel M., Allegheny, Pa. Eye-bar	283,730	Aug. 21	1520	428	24	789
Wickersham, William, Worcester, Mass. Nail-cutting machine	269,904	Jan. 2	96	29	23	20
Wickersham, William, Worcester, Mass. Cutter for nail-machines	287,600	Oct. 30	2319	627	25	450
Wickes, James H., East Rochester, N. Y. Refrigerator	279,062	June 5	551	152	23	2218
Wickey, Andrew, Quincy, Ill. Draft-equalizer	273,210	Feb. 27	2059	579	23	822
Wicks, Frederick, Glasgow, county of Lanark, Scotland. Machinery for composing types	276,947	May 1	539	140 141	23	1718
Wicks, Frederick, Glasgow, county of Lanark, Scotland. Type making and arranging machinery	280,699	July 3	432	123 124	24	77
Wicks, Pierson J., Saltersville, N. J. Bill-file	274,688	Mar. 27	1867	520	23	1179
Wickwire, Chester F., Cortland, N. Y. Loom for weaving wire	282,430	July 31	2658	729	24	484
Widdifield, Watson P., Uxbridge, Ontario, Canada. Car-brake	277,436	May 8	1138	307	23	1828
Widney, Robert M., Los Angeles, Cal. Lawn-sprinkler	287,984	Nov. 6	251	72	25	551
Wieber, Henry E., Rondout, N. Y. Stove-pipe thimble	290,157	Dec. 11	965	273	25	1065
Wiebers, Marx C., Mineral Point, assignor of one-half to M. M. Cothren, Iowa County, Wis. Corn or bean planter	283,051	Aug. 14	689	193 194	24	629
Wiederer, Peter. (See Hufeland, Philip, assignor.)						
Wiedersheim, John A., Philadelphia, Pa. Ice-pick	289,738	Dec. 4	461	130	25	967
Wiedersum, Frederick P., *et al.* (See Mueller, Henry A., assignor.)						
Wiedersum, Maria, *et al.* (See Mueller, Henry A., assignor.)						
Wiedersum, William J., *et al.* (See Mueller, Henry A., assignor.)						
Wiedmann, Heinrich, assignor of one-half to G. Speckhart, Nuremberg, Germany. Hammer	281,217	July 10	1090	300	24	199
Wiegand, John H., San Francisco, Cal. Sole trimming and channeling machine	277,395	May 8	1088	292	23	1820
Wiegand, S. Lloyd, Philadelphia, Pa. Lubricator for car-journals	282,594	Aug. 7	145	43	24	526
Wiehl, Alfred, New York, N. Y. Advertising-fan	290,827	Dec. 25	1857	513	25	1235
Wiehl, Joseph H., Allegheny, Pa. Steam-engine lubricator	290,828	Dec. 25	1858	514	25	1235
Wieland, Perry J., Farmersville, Ohio. Automatic gate	271,963	Feb. 6	456	125	23	521

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Wiener, Oscar, H. Coates, and S. Wiener, Newark, N. J. Bridle-bit	285,717	Sept. 25	1906	541	24	1257
Wiener, Simon. (See Wiener, Coates, and Wiener.)						
Wienman, Christian J., Dayton, Ohio. Shoe-heel-beading machine	284,349	Sept. 4	233	65	24	943
Wienman, Lorns, Columbus, Ohio. Steam-actuated valve	273,655	Mar. 6	530	142	23	925
Wienke, Carl F. A., assignor to R. Dolberg, Rostock, Mecklenburg, Germany. Lever-cork-screw	283,731	Aug. 21	1520	429	24	789
Wier, Stephen M., New Haven, Conn. Two-wheeled vehicle	275,307	Apr. 3	540	147	23	1318
Wiesbauer, Joseph, Buffalo, N. Y. Jeweler's card and tag cabinet	271,007	Jan. 23	1464	421	23	300
Wiesbauer, Joseph, Buffalo, N. Y. Jeweler's tag	278,674	May 29	2681	734	23	2117
Wiesendanger, Emil U., Comanche, Tex. Lamp-chimney cap	286,753	Oct. 16	1226	331	25	237
Wieser, Max. (See Wolff and Wieser.)						
Wieser, Max, New York, N. Y. Die for indenting wire	271,178	Jan. 23	1671	481	23	334
Wietheger, Henry. (See Kasehagen and Wietheger.)						
Wiggin, George B., South New Market, N. H., assignor of one-half to J. Burnham, Lawrence, Mass. Machine for cutting tin, &c.	272,501	Feb. 20	1157	324, 325	23	657
Wiggin, Joseph N. (See Hartnagel, Jacob, assignor.)						
Wiggins, Jefferson G., Auburn, N. Y. Shoe-button	280,270	June 26	2033	572	23	2494
Wiggins, William H., Brooklyn, assignor to United States Standard Billiard Table Company, New York, N. Y. Pool-triangle	283,739	Aug. 21	1521	429	24	789
Wight Fire Proofing Company. (See Wight, Peter B., assignor.)						
Wight, George R., New York, N. Y. Refrigerating apparatus	275,556	Apr. 10	901	244	23	1388
Wight, George R., New York, N. Y. Refrigerating-car	281,421	July 17	1351	373	24	251
Wight, George R., New York, N. Y. Refrigerator	284,932	Sept. 11	944	266	24	1072
Wight, Peter B., Chicago, Ill., assignor to Wight Fire Proofing Company, of Illinois. Fire-proof arch and ceiling	273,419	Mar. 6	230	69	23	873
Wight, Peter B., Chicago, Ill., assignor to Wight Fire Proofing Company, of Illinois. Hollow-tile arch for ceilings	285,452	Sept. 25	1585	445	24	1198
Wightman, Ira C. (See Carter and Wightman.)						
Wightman, Thomas T., *et al.* (See Nugent, Richard C., assignor.)						
Wightman, William, Denver, Colo. Fire-escape	288,902	Nov. 20	1393	384	25	766
Wigmore, William H. (See Doerr and Wigmore.)						
Wigmore, William H., assignor of one-half to J. H. Doerr, Philadelphia, Pa. Sleeping-car	274,689	Mar. 27	1868	520, 521	23	1179
Wigmore, William H., assignor of one-half to H. Clayton, Philadelphia, Pa. Blower	284,698	Sept. 11	665	187	24	1023
Wilber, John D., Towanda, Pa. Door-hanger	279,898	June 19	1580	442	23	2408
Wilber, William H. (See Packard and Wilber.)						
Wilbor, Elijah M., Taunton, Mass. Machine for cutting sheet metal	285,091	Sept. 18	1153	322	24	1115
Wilbourn, William R., Lexington, Va. Side-saddle tree	270,269	Jan. 9	522	153	23	112
Wilbourn, William R., Lexington, Va. Riding-saddle	270,270	Jan. 9	523	153, 154	23	112
Wilbraham, James. (See Wilbraham, Thomas and J. W., assignors.)						
Wilbraham, James, *et al.* (See Wilbraham, John W., assignor.)						
Wilbraham, John W. (See Wilbraham, Thomas and J. W.)						
Wilbraham, John W., assignor to himself, T. and J. Wilbraham, Philadelphia, Pa. Stuffing-box for journals	272,819	Feb. 20	1557	437	23	728
Wilbraham, John W., assignor to himself, T. and J. Wilbraham, Philadelphia, Pa. Attachment to lathes for turning crank-pins	272,820	Feb. 20	1557	437	23	728
Wilbraham, Thomas, *et al.* (See Wilbraham, John W., assignor.)						
Wilbraham, Thomas and J. W., assignors to themselves and J. Wilbraham, Philadelphia, Pa. Rotary engine	272,818	Feb. 20	1555	436, 437	23	728
Wilbur, Alfred, Allegheny, Pa. Flanging-machine	274,872	Mar. 27	2086	579	23	1216
Wilbur, Alfred, Allegheny, Pa. Flanging-machine	276,111	Apr. 17	1598	441	23	1516
Wilbur, Alpheus O., assignor of one-half to S. M. Wilbur, Romeo, Mich. Wagon-bolster	278,645	May 29	2650	725	23	2111
Wilbur, George W., Providence, R. I., assignor to A. E. Brockett, Branford, Conn. Pipe-tongs	284,933	Sept. 11	945	266	24	1072
Wilbur, Sylvanus M. (See Wilbur, Alpheus O., assignor.)						
Wilbur, William C. (See Leete and Wilbur.)						
Wilcox, Charles K., Dayton, Ohio. Carriage-hub	290,724	Dec. 25	1726	476	25	1213
Wilcox, Edward M., assignor to Winchester & Partridge Manufacturing Company, Whitewater, Wis. Horse-power sweep for grinding-mills	270,531	Jan. 9	866	252	23	179
Wilcox, Edward M., assignor of one-third to J. Morris, Omaha, Nebr. Grain-car door	275,448	Apr. 10	768	204	23	1365
Wilcox, Harvey, Los Gatos, Cal. Cultivator	285,193	Sept. 18	1276	359	24	1137
Wilcox, Heman D., Boston, Mass. Cutter-head	290,158	Dec. 11	966	273	25	1065
Wilcox, Henry M., *et al.* (See Brooks, Austin A., assignor.)						
Wilcox, James M. (See De Smedt, Edward J., assignor.)						
Wilcox, Joshua L., Flint, Mich. Cider-press	271,387	Jan. 30	1936	560	23	389
Wilcox, Joshua L., Flint, Mich. Apple-parer	287,601	Oct. 30	2321	628	25	450
Wilcox, Lyman, Cone, Mich. Windmill	278,842	June 5	231	68	23	2162
Wilcox, Marcus M. (See Laskey, John H., assignor.)						
Wilcox, Martin, Paskenta, Cal. Grain-separator	272,178	Feb. 13	736	203	23	579
Wilcox, Myron L., Brooklyn, N. Y. Paper-box	289,790	Dec. 4	516	143	25	976
Wilcox, Reuben G., Hiram Rapids, Ohio. Horseshoe	271,008	Jan. 23	1465	421	23	301
Wilcox, Silas, Portland, Oreg. Grease-trap	280,545	July 3	250	67	24	45
Wilcox, Stephen, Brooklyn, N. Y. Hot-air engine	289,481	Dec. 4	131	37, 38	25	910
Wilcox, Stephen, Brooklyn, N. Y. Hot-air engine	289,482	Dec. 4	135	38, 39	25	910
Wilcox & White Organ Company. (See White Henry K., assignor.)						
Wilcox, William R., Nashua, N. H. Eaves-trough support	272,925	Feb. 27	1711	479	23	761
Wilcox, William W., Chicago, Ill. Baggage-check	280,427	July 3	112	30	24	21
Wilcoxen, Jeremiah, Canton, Ill. Bow and scarf fastener	284,699	Sept. 11	667	187	24	1023
Wild, Joseph H. (See Jones and Wild.)						
Wild, William E., Candalara, Nev. Machine for reboring cylinders	275,102	Apr. 3	291	80	23	1276
Wild, William E., Candalara, Nev. Boring, drilling, and facing machine	275,103	Apr. 3	292	80, 81	23	1276
Wild, William E., Candalara, Nev. Grain cleaner, separator, and grader	275,104	Apr. 3	294	81	23	1277
Wild, William E., Candalara, Nev. Grain cleaner, separator, and grader	275,105	Apr. 3	296	81	23	1277
Wild, William E., San Francisco, Cal. Ore-feeder	283,180	Aug. 14	842	235, 236	24	656
Wild, William G., Bangor, Me. Boot for soaking horses' feet	280,107	June 26	1843	519	23	2461
Wilde, Daniel, Washington, Iowa. Steam-generator	275,449	Apr. 10	769	205	23	1365
Wilde, Daniel, Washington, Iowa. Bagasse-furnace	284,101	Aug. 28	1997	556	24	884
Wilde, Henry, Newark, N. J. Stave-jointing machine	271,009	Jan. 23	1466	421, 422	23	301
Wilde, Robert, Philadelphia, Pa. Lap-feeding device for carding-machines	290,378	Dec. 18	1251	351	25	1123
Wilde, Samuel, Williams, Cal. Heel for boots or shoes	285,194	Sept. 18	1277	359	24	1137
Wilde, William A., Chicago, Ill. Car-brake	283,446	Aug. 21	1184	333	24	726

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Wilder, Charles O., assignor to North Western Steele Wheel Company, Chicago, Ill. Making metallic wheels	286,754	Oct. 16	1296	331	25	237
Wilder, Henry C., Ashby, Mass. Safety-valve	272,926	Feb. 27	1713	479	23	761
Wilder, Moses G., Philadelphia, Pa. Bolt-heading machine	282,475	July 31	2711	746 747	24	493
Wilder, Moses G., and C. T. Parry, assignors to said Parry, E. H. Williams, W. P. Heuszey, E. Longstreth, J. H. Converse, and G. Burnham, Philadelphia, Pa. Metal-punching machine	277,817	May 15	1567	434 435	23	1912
Wildey, Eli W., and W. L. Simons, Richmond, Ind. Wind-engine	272,370	Feb. 13	970	271	23	630
Wildey, George, and A. Rollins, Brooklyn, N. Y. Press	271,754	Feb. 6	204	57	23	475
Wiles, Robert H. (See Dean, George S., assignor.)						
Wiles, Robert H., Freeport, Ill. Spring-hinge	274,161	Mar. 20	1161	325	23	1052
Wiley & Russell Manufacturing Company. (See Smart, Albert J., assignor.)						
Wilford, Joseph L. (See Northway, Winslow P., assignor.)						
Wilkerson, Basil M., New York, N. Y. Combined comb and brush	288,534	Nov. 13	940	256	25	679
Wilkerson, Lafayette, Scipio, Ind. Car-coupling	271,179	Jan. 23	1672	481	23	334
Wilkerson, Lafayette, Scipio, Ind. Car-brake	290,379	Dec. 18	1252	351 352	25	1123
Wilkes, James, Winnipeg, Manitoba, Canada. Nut-lock	279,299	June 12	852	236	23	2278
Wilkes, Washington, Sylacauga, Ala. Cotton thinner and cultivator	283,181	Aug. 14	844	236	24	656
Wilkes, William J., Chicago, Ill. Grain-binder	285,330	Sept. 18	1428	403 404	24	1165
Wilkie, David, and G. A. Duggan, Detroit, Mich. Milk-can	287,905	Oct. 23	1807	496	25	347
Wilkie, John E., assignor to J. P. Barrett, Chicago, Ill. Ambulance	273,925	Mar. 13	883	241	23	993
Wilkin, Theodore S., East Saginaw, Mich. Device for keeping journals cool	290,159	Dec. 11	967	273	25	1066
Wilkin, William M., East Saginaw, Mich. Saw-buckle for reciprocating saws	286,354	Oct. 9	728	195	25	142
Wilkin, William M., East Saginaw, Mich. Reciprocating-saw mill	286,355	Oct. 9	729	195 196	25	142
Wilkin, William M., East Saginaw, Mich. Saw-relief mechanism for saw-mills	286,356	Oct. 9	731	196	25	143
Wilkin, William M., East Saginaw, Mich. Feed mechanism for saw-mills	286,357	Oct. 9	732	196	25	143
Wilkins, Alexander G. (See Zellers and Wilkins.)						
Wilkins, Alexander G., assignor to Wilkins Shoe Button Fastener Company, Meadville, Pa. Machine for attaching buttons	282,821	Aug. 7	412	116 117	24	573
Wilkins, Charles L. (See Harker and Wilkins.)						
Wilkins, Daniel W., Boston, Mass. Shield for shirt-studs	276,741	May 1	275	70	23	1671
Wilkins, Fred B., Clinton, Mass. Finishing woven cotton fabrics	270,868	Jan. 16	1283	.....	23	265
Wilkins, George A., Philadelphia, Pa. Adjustable telephone support and switch	286,518	Oct. 9	922	248 249	25	177
Wilkins, Henry E., and J. L. Dole, Springfield, Mass. Heel-iron	271,755	Feb. 6	205	57	23	475
Wilkins, John. (See Wilkins, William F., assignor.)						
Wilkins Shoe Button Fastener Company. (See Wilkins, Alexander G., assignor.)						
Wilkins Shoe Button Fastener Company. (See Zellers, Mahlon M., assignor.)						
Wilkins Shoe Button Fastener Company. (See Zellers and Wilkins, assignors.)						
Wilkins, William F., Adamsville, Quebec, assignor of one-third to J. Wilkins, Toronto, Ontario, Canada. Belt-fastener	271,010	Jan. 23	1468	422	23	301
Wilkinson, Algernon L., Huntsville, Ala. Automatic switch-signal	289,739	Dec. 4	462	130	25	967
Wilkinson, Elias A. (See Woodward and Fairbanks, assignors.)						
Wilkinson, Elias A., trustee. (See Fairbanks, Charles M., assignor.)						
Wilkinson, Frederick. (See Higgins and Wilkinson.)						
Wilkinson, Harris C. (See Hart, Louis H., assignor.)						
Wilkinson, Job D., Plainwell, Mich. Spring bed-bottom	285,331	Sept. 18	1429	404	24	1165
Wilkinson, John D., assignor of one-half to J. M. and W. L. Wever, Plattsburg, N. Y. Horseshoe-nail machine	284,934	Sept. 11	946	266	24	1073
Wilkinson, John P., Abbeville, Miss. Key-hole guard	282,018	July 24	2115	579	24	396
Wilkinson, Warren W. (See Morlan and McKeehen, assignors.)						
Wilkinson, William, Wigan, county of Lancaster, England. Tramway-locomotive	276,948	May 1	541	141	23	1718
Wilkinson, William, Wigan, county of Lancaster, England. Vertical multitubular boiler	279,470	June 12	1073	297	23	2314
Wilkinson, William, Wigan, county of Lancaster, England. Traction-engine	280,428	July 3	113	30	24	21
Wilkinson, William R., Brooklyn, N. Y. Fertilizer	290,829	Dec. 25	1859	.....	25	1236
Will, Fred. (See Borst, George, assignor.)						
Will, Frederick. (See Borst and Will.)						
Willard, Bradford. (See Crane, Gerard, assignor.)						
Willard, Bradford, *et al.* (See Stilwell, Rickason, assignor.)						
Willard, Charles A., West De Pere, Wis. Smoke and flame outlet for buildings	282,822	Aug. 7	414	117	24	574
Willard, Charles W., Chicago, Ill. Helve of power-hammers	285,718	Sept. 25	1907	541	24	1257
Willard, Frank, Meadville, Mo. Automatic driving-gate	279,063	June 5	552	152	23	2218
Willard, Henry F., *et al.* (See Paul, George D., assignor.)						
Willard, William L. (See Poage, Walter R., assignor.)						
Willcox, Charles H. (See Borton and Willcox.)						
Willcox, Charles H., New York, N. Y., and C. Carleton, Providence, R. I., assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine	276,112	Apr. 17	1600	442	23	1516
Willcox, Charles H., New York, N. Y., and G. H. Noble, Providence, R. I., assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Thread-controlling device for sewing-machines	276,113	Apr. 17	1603	442	23	1517
Willcox & Gibbs Sewing Machine Company. (See Borton, Stockton, assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Borton and Willcox, assignors.)						
Willcox & Gibbs Sewing Machine Company. (See Ryder, Martin H., assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox and Carleton, assignors.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox and Noble, assignors.)						
Willcox, John S. M., Whitby, Ontario, Canada. Fire-escape	289,050	Nov. 27	1562	437	25	807
Willemin, Gustave. (See Shaw, Charles H., assignor.)						
Willes, Henry A. (See Waterhouse, Samuel S., assignor.)						
Willet, Nathaniel S., assignor to M. P. Cooper, Newark, N. J. Brick-drying apparatus	280,271	June 26	2034	572	23	2494
Willets, Stephen T., *et al.* (See Swift, Horace E., assignor.)						
Willett, George. (See Morrison and Willett.)						
Willett, George, Englewood, Ill. Cash-railway	273,211	Feb. 27	2060	579	23	822
Willett, Robert A. (See Eubank, Thomas, assignor.)						
Willetts, Jesse, and W. Buttlear, Pittsburg, Pa. Tool for forming the open ends of hollow glassware	280,546	July 3	251	68	24	45
Willetts, Jesse, and W. Buttlear, Pittsburg, Pa. Manufacture of lamp-chimneys	285,719	Sept. 25	1908	541	24	1257
Willey, George W., Athol, Mass. Railway-track cleaner	288,903	Nov. 20	1394	384 385	25	766
Willey, Thomas M., East Haddam, Conn. Manufacture of bed-coverings, &c.	274,690	Mar. 27	1869	521	23	1180
Williames, Napoleon W., Philadelphia, Pa. Governor for steam-engines	280,984	July 10	798	222	24	147

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Williamee, Napoleon W., Philadelphia, Pa. Cut-off valve	281,812	July 24	1866	510	24	344
Williams, Alanson B., Cleveland, Ohio. Can for preserving butter	285,332	Sept. 18	1430	404	24	1166
Williams, Alfred H., Peckham, county of Surrey, England. Ponton	280,272	June 26	2037	573	23	2495
Williams, Allen T., Taunton, Mass. Compensation-pendulum. (Reissue)	10,425	Dec. 11	1013	285	25	1074
Williams, Andrew J., Macon, Ga. Cotton cleaner and feeder	284,151	Aug. 28	2065	572, 573	24	894
Williams, Andrew J., Macon, Ga. Rib for cotton-gins	284,152	Aug. 28	2066	573	24	895
Williams, B. H., *et al.* (See Orton, Chester B., assignor.)						
Williams, Benjamin H., Lawrenceville, Pa. Sight for fire-arms	283,447	Aug. 21	1187	334	24	726
Williams, Bennett, assignor to himself and W. J. Griffiths, Boston, Mass. Pencil-sharpening machine	282,893	Aug. 7	416	117	24	574
Williams, Charles, Jr., *et al.* (See Flint, Edward, Jr., assignor.)						
Williams, Charles, Jr. (See Lane, Thomas W., assignor.)						
Williams, Charles. Chicago, Ill. Folding bed	272,502	Feb. 20	1158	325	23	657
Williams, Charles E., Westfield, Mass. Machine for twisting snaps for whips	277,967	May 22	1773	483, 484	23	1950
Williams, Charles H., Worcester, assignor to T. C. Bates, North Brookfield, Mass. Corset	272,179	Feb. 13	737	203, 204	23	579
Williams, Charles H., assignor to T. C. Bates, Worcester, Mass. Corset	276,114	Apr. 17	1605	442	23	1517
Williams, Charles H., and F. Saker, Charlestown, N. H. Flue-stopper	280,700	July 3	436	124	24	78
Williams, Charles I. (See Williams, Irvin A. and C. I.)						
Williams, Chester L., New York, N. Y. Ventilating-skylight	288,535	Nov. 13	940	257	25	679
Williams, Clarence A., Webster City, Iowa. Work-bench	289,947	Dec. 11	712	201	25	1018
Williams, Clarence A., Webster City, Iowa. Device for jointing lumber	289,948	Dec. 11	713	201, 202	25	1018
Williams & Co., B. S. (See Williams and Manvel, assignors.)						
Williams, Daniel W., Springville, Cal. Sawing and channeling machine	270,532	Jan. 9	867	252	23	180
Williams, David B. (See White, Francis M., assignor.)						
Williams, David G., assignor of one-half to E. Percival, Port Huron, Mich. Spoon	280,985	July 10	800	222	24	147
Williams, Delbert. (See Haight and Williams.)						
Williams, Eben B., assignor of one-half to D. D. Earle, Forestdale, R. I. Gate for turbine wheels	271,671	Feb. 6	102	28	23	457
Williams, Edward G., *et al.* (See Ives, Edward R., assignor.)						
Williams, Edward G., Brooklyn, assignor to Ives, Blakeslee & Co., New York, N.Y. Game	275,308	Apr. 3	541	148	23	1318
Williams, Edward H., *et al.* (See Wilder and Parry, assignors.)						
Williams, Edwin S., Howard, assignor of one-third to A. V. Cleland, Niles, Mich. Sheaf-gatherer for self-binding harvesters	279,300	June 12	853	236	23	2278
Williams, Elias, Parish of St. John Baptist, La. Bagasse-furnace	281,218	July 10	1091	300, 301	24	200
Williams, Elijah L., Marianna, Fla. Paddle-wheel	278,477	May 29	2443	667	23	2076
Williams, Eugene C., *et al.* (See Kelly, Robert M., assignor.)						
Williams, Francis R., Shreveport, La. Chalk-replacing device for billiard-tables	282,476	July 31	2714	747	24	493
Williams, Frank E., New York, N. Y. Duplex sleeve-button	277,095	May 8	739	194	23	1758
Williams, Frank R., Syracuse, assignor to H. H. Hebbard, Brockport, N. Y. Apple-parer	284,935	Sept. 11	947	267	24	1073
Williams, George. (See Brown and Williams.)						
Williams, George E., *et al.* (See Engelking, George L., assignor.)						
Williams, George L., and J. Dunstedter, Edwardsville, Ill. Grain-binder	279,210	June 12	745	204, 205	23	2260
Williams, George W., Winona, Minn. Spring for piston-heads	291,009	Dec. 25	2095	577	25	1274
Williams, Gilbert L., Bonham, Tex. Mosquito-bar frame	286,665	Oct. 16	1113	300	25	218
Williams, Gurdon H., assignor of one-half to L. M. Dennison, Greensburg, Ohio. Vehicle-axle	286,358	Oct. 9	733	196	25	144
Williams, Harry B., Brooklyn, N. Y. Brush	286,886	Oct. 16	1391	362	25	266
Williams, Henry B., assignor of one-half to J. Gerber, Fremont Centre, Mich. Pipe-wrench	275,106	Apr. 3	297	82	23	1277
Williams, Henry G., Jersey City, N. J., assignor of one-half to A. R. Morgan, New York, N. Y. Heating-drum	281,219	July 10	1092	301	24	200
Williams, Henry S., assignor of one-half to E. L. and J. D. Shipman, New York, N. Y. Binder for pamphlets, &c.	274,429	Mar. 20	1521	418	23	1112
Williams, Henry S., assignor of one-half to E. L. and J. D. Shipman, New York, N. Y. Newspaper file and binder	274,430	Mar. 20	1523	418	23	1112
Williams, Irvin. (See McMurtrey, Williams, and Okie.)						
Williams, Irvin A. and C. I., Utica, N. Y. Locomotive head-light with signal attachment	281,327	July 17	1236	342, 343	24	231
Williams, Isaac F., Bristol, R. I. Manufacture of vulcanized-rubber goods	284,936	Sept. 11	951	267	24	1074
Williams, J. J., *et al.* (See Gossett, William J., assignor.)						
Williams, J. P. Auguste, Chicago, Ill. Process of and apparatus for the manufacture of dipped candles	279,209	June 12	744	204	23	2260
Williams, Jacob S., St. Louis, Mo. Furnace	286,887	Oct. 16	1392	382, 383	25	266
Williams, James, High Lane, near Stockport, county of Chester, England. Regulator for engine-governors	288,146	Nov. 6	433	122	25	583
Williams, Jay C. (See Chandler and Williams.)						
Williams, Jay L., Lone Tree, Iowa. Car-coupling	284,937	Sept. 11	953	267	24	1074
Williams, Jay S. (See Williams, John and J. S.)						
Williams, John and J. S., Kalamazoo, Mich. Fruit-evaporator	272,927	Feb. 27	1714	479	23	761
Williams, John C., Scotland Neck, N. C. Machine for measuring bagging and other fabrics	280,547	July 3	253	68	24	45
Williams, John I., Youngstown, Ohio. Metal-rolling mill	275,309	Apr. 3	542	148	23	1318
Williams, John L., Shenandoah, Pa. Miner's safety-lamp	290,510	Dec. 18	1443	398	25	1156
Williams, John M., Boston, Mass. Cuff and collar fastener	273,656	Mar. 6	530	143	23	925
Williams, John R., Mount Pleasant, Iowa. Wheeled dirt-scraper	286,246	Oct. 9	571	157	25	115
Williams, John R., Newark, N. J. Machine for cutting blanks	287,073	Oct. 23	1639	450	25	316
Williams, John R., Newark, N. J. Cigar-making apparatus	290,954	Dec. 25	2015	556	25	1262
Williams, John S., Chicago, Ill. Shirt	277,527	May 15	1255	337	23	1854
Williams, John T. (See Williams, Richard H. and J. T.)						
Williams, Joseph, San José, Cal. Window-blind	275,557	Apr. 10	902	245	23	1388
Williams, Joseph, San José, Cal. Window-blind	283,941	Aug. 28	1782	503	24	847
Williams, Joseph C., Etna, Pa. Gas-burning puddling-furnace	289,201	Nov. 27	1764	489	25	840
Williams, Joshua H., East Craftsbury, Vt. Floor-jack	286,981	Oct. 16	1516	416	25	287
Williams, Lewis, and E. M. Bates, Johnstown, Pa. Apparatus for elevating and holding spools of wire	290,300	Dec. 18	1149	322	25	1104
Williams, Lewis E., Peekskill, N. Y. Burglar-alarm and door-bell	279,064	June 5	554	152	23	2218
Williams, Louise A. (See Woods, William A., assignor.)						
Williams, Luke A., Meadville, Mo. Check-rower	271,756	Feb. 6	206	57	23	475
Williams, Malcolm B., and H. Manvel, assignors to B. S. Williams & Co., Kalamazoo, Mich. Spring-tooth harrow and drill	280,548	July 3	254	68	24	46

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Williams Manufacturing Company. (See Haines, Frank P., assignor.)						
Williams Manufacturing Company. (See McDonald, Hugh, assignor.)						
Williams Manufacturing Company. (See Palmer, George M., assignor.)						
Williams Manufacturing Company, C. W. (See Thomas, Eddy T., assignor.)						
Williams Manufacturing Company. (See Thomas, Eddy T., assignor.) (Reissue.)						
Williams, Nathaniel B., Bridgeport, Conn. Sewing-machine guide	272,503	Feb. 20	1160	325	23	657
Williams, Nicholas H., Joliet, Ill. Cultivator	288,289	Nov. 13	618	169	25	624
Williams, Paul W., assignor to himself, T. M. Gibson, and Z. L. Wise, Dardanelle, Ark. Cultivator	282,824	Aug. 7	417	118	24	574
Williams, Pliny B., *et al.* (See Hill, Thomas, assignor.)						
Williams, Pliny B., *et al.* (See Little, James R., assignor.)						
Williams, Richard H., Mount Vernon, N. Y. Domino	278,646	May 29	2650	725	23	2111
Williams, Richard H. and J. T., Mount Vernon, N. Y. Puzzle	284,595	Sept. 4	448	127	24	980
Williams, Robert. (See Bowker, William, assignor.)						
Williams, Robert, Boston, assignor, by mesne assignments, to himself and W. Bowker, Somerville, Mass. Machine for sawing hoops from poles	271,672	Feb. 6	104	28	23	458
Williams, Robert, Boston, and W. Bowker, Somerville, Mass. Machinery for sawing barrel-hoops from poles	272,996	Feb. 27	1790	501	23	774
Williams, Robert M., New Market, Va. Cultivator	288,288	Nov. 13	618	169	25	624
Williams, Samuel B., Sailor's Rest, Tenn. Plow attachment	288,904	Nov. 20	1395	385	25	767
Williams, Samuel T., Troy, N. Y. Reel for coiling wire, rods, or ropes	269,905	Jan. 2	97	29	23	21
Williams, Samuel T., assignor of one-half to R. W. Hunt, Troy, N. Y. Rolling-mill	284,700	Sept. 11	667	188	24	1023
Williams, Samuel T., Red Bank, assignor of one-half to A. Albright, Newark, N. J. Planking and pavement	276,545	Apr. 24	2147	597, 598	23	1618
Williams, Seth J., and H. Richey, Sing Sing, N. Y. Manufacture of baking-pans	271,388	Jan. 30	1937	560, 561	23	390
Williams, Sheldon, Providence, R. I. Making bases for rings of watch-case columns	284,526	Sept. 4	448	127	24	980
Williams, Steward, Granville, Ind. Fence	283,182	Aug. 14	846	237	24	657
Williams, Talcott. (See Dorr and Williams.)						
Williams, Thomas. (See Ulrick and Williams.)						
Williams, Thomas, Woonsocket, R. I. Knife-hone	281,744	July 24	1771	492	24	326
Williams, Thomas, Brooklyn, N. Y. Banjo	288,905	Nov. 20	1396	385	25	767
Williams, Thomas, Jr., Gee Street, and W. Sangster, Compton Buildings, Goswell Road, county of Middlesex, England; said Sangster assignor to said Williams. Sausage-stuffing machine	276,115	Apr. 17	1606	442	23	1517
Williams, William, assignor of one-half to R. W. Roberts and C. F. Obets, Caledonia, Ohio. Thill-coupling	283,309	Aug. 14	1002	281	24	687
Williams, William A., Sioux Falls, Dak. Ter. Mail-bag	280,429	July 3	114	30	24	92
Williams, William E., Dodgeville, Wis. Windmill	272,821	Feb. 20	1558	438	23	729
Williams, William H., *et al.* (See Bemis, Charles, assignor.)						
Williams, William H., Cincinnati, Ohio. Seal-lock	282,019	July 24	2116	579	24	386
Williams, William H., Brooklyn, assignor to Van Wagoner & Williams, New York, N. Y. Spring-hinge	281,594	July 17	1566	428	24	286
Williams, William H., assignor of one-half to P. Mohr, Cincinnati, Ohio. Producing an electroplating bath and salts	286,359	Oct. 9	733	.....	25	144
Williams, William H. H. (See Myers and Williams.)						
Williamson, Benjamin F., St. Louis, Mo. Stirrup	283,310	Aug. 14	1003	281	24	687
Williamson, Cornelius T., Newark, N. J. Corkscrew	274,539	Mar. 27	1690	469	23	1147
Williamson, Douw D. (See Darton and Williamson.)						
Williamson, Douw D., New Brunswick, N. J. Marker for lawn-tennis courts	285,092	Sept. 18	1155	322	24	1115
Williamson, E. A. (See Williamson, Willie R., assignor.)						
Williamson, Eli S., Bradford, Pa. Apparatus for pumping and flowing oil-wells	276,116	Apr. 17	1608	443	23	1517
Williamson, George, *et al.* (See Williamson, William C., assignor.)						
Williamson, George, Cambridge, assignor of one-half to W. G. Chase, Brookline, Mass. Printing-press	276,517	Apr. 24	2111	586, 587	23	1612
Williamson, George, Cambridge, assignor to J. O. Hayden, Somerville, and W. G. Chase, Brookline, Mass. Printing-press	290,301	Dec. 18	1150	322, 323	25	1105
Williamson, George W., assignor of one-half to G. W. Williamson, Sr., New Ross, Ind. Straw-stacking machine	274,540	Mar. 27	1692	469, 470	23	1147
Williamson, George W., assignor of one-half to G. W. Williamson, Sr., New Ross, Ind. Straw-stacking machine	281,654	July 17	1647	449	24	399
Williamson, James, J. and G. Swindells, Lancaster, England. Letting-off motion for looms	279,696	June 19	1263	350	23	2033
Williamson, James E., Berlin, Wis. Merchant's stand for paper bags	286,099	Oct. 2	395	108	25	72
Williamson, John D., *et al.* (See Williamson, William C., assignor.)						
Williamson, John J., Boston, Mass. Postal-card	283,841	Aug. 28	1660	469	24	825
Williamson, John W., Jamaica, N. Y. Combined lubricating and cooling compound	278,067	May 22	1890	.....	23	1971
Williamson, L. N., *et al.* (See Blakely, Caleb J., assignor.)						
Williamson, Lucius N., *et al.* (See Angell, Russell R., assignor.)						
Williamson, S. D., *et al.* (See Williamson, S. Stuart, assignor.)						
Williamson, S. Stuart, assignor of one-eighth to D. K. Cartter, Washington, D. C. Balanced slide-valve	272,393	Feb. 13	1014	283	23	697
Williamson, S. Stuart, Bridgeport, Conn., assignor to A. F. Carman, Brooklyn, N. Y., and S. D. Williamson, Washington, D. C. Car-truck	286,565	Oct. 9	981	264	25	188
Williamson, William A., assignor of one-half to J. M. Moore, Clayton, N. J. Fruit-jar	280,701	July 3	437	124, 125	24	78
Williamson, William C., assignor of two-thirds to G. and J. D. Williamson, Philadelphia, Pa. Steam steering-engine	276,117	Apr. 17	1610	443	23	1518
Williamson, Willie R., assignor to E. A. Williamson, Wheeler, Ind. Bale-tie	273,926	Mar. 13	884	241	23	993
Willetts, Jesse. (See Blair and Willetts.)						
Willis, Charles E., Oyster Bay, N. Y. Anchor	270,168	Jan. 2	402	116	23	82
Willis, Daniel, Harrison, assignor of one-half to E. G. Duvall, Dayton, N. J. Spring shade-roller	273,657	Mar. 6	531	143	23	925
Willis, Henry T., assignor to himself and R. C. Flower, Boston, Mass. Vapor-generator for bathing apparatus	286,666	Oct. 16	1113	300	25	218
Willis, John, Canton, Ohio. Wood-polishing machine	278,647	May 29	2651	725	23	2111
Willis, Walter N., Trappe, Md. Steam-engine	288,684	Nov. 20	1131	311	25	719
Williston, Henry M. (See Forbes and Williston.)						
Willits, George S., Philadelphia, Pa. Elevating and supporting device for trunk-trays	290,380	Dec. 18	1254	352	25	1124
Willits, Horace A., Philadelphia, Pa. Jump-seat iron	284,153	Aug. 28	2066	573	24	895
Willits, Warren J., assignor to Sheffield Velocipede Car Company, Three Rivers, Mich. Hand-car	269,906	Jan. 2	98	29, 30	23	21
Willits, Warren J., assignor to Sheffield Velocipede Car Company, Three Rivers, Mich. Car-wheel	280,702	July 3	438	125	24	78

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Willmer, Samuel L., assignor of one-half to S. Wolf, Anderson, Cal. Combined wrench and pinchers	270,356	Jan. 9	630	186	23	133
Willoughby, James D., deceased; D. E. Adams, Pittsburg, Pa., administrator. Speed-governor for steam-engines	282,480	Aug. 7	1	1	24	501
Wills, Harry A., and J. D. Kingsland, assignors to Northwestern Horse Nail Company, Chicago, Ill. Automatic feeder for horseshoe-nail-blank-finishing machines	275,558	Apr. 10	903	245, 246	23	1389
Wills, John B., Keeseville, N. Y. Machine for finishing horseshoe-nail blanks	287,206	Oct. 23	1808	496	25	347
Wills, Samuel, assignor of one-half to R. Clark, Camden, N. J. Journal-bearing	286,962	Oct. 16	1517	417	25	287
Willsie, George E., assignor of one-half to H. L. Chaffee, Des Moines, Iowa. Dish pan and drainer	284,264	Sept. 4	133	37	24	927
Willson, Albert O., Madison, Ga. Traction-engine	281,813	July 24	1867	510	24	344
Willson, Henry, Chicago, Ill. Ink-fountain for printing-presses	279,301	June 12	854	237	23	2279
Willson, Osborn, Aurora, Ill. Two-wheeled vehicle	272,928	Feb. 27	1715	480	23	761
Willson, Robert W., New Haven, Conn. Device for synchronizing clocks	288,906	Nov. 20	1397	385	25	767
Willson, Robert W., assignor to Standard Time Company, New Haven, Conn. Electrical control for pendulum-clocks	270,533	Jan. 9	868	253	23	180
Willson, Robert W., assignor to Standard Time Company, New Haven, Conn. Device for making and breaking electric circuits	271,560	Jan. 30	2155	620	23	428
Willson, Sam A., Rusk, Tex. Horse-detacher	272,394	Feb. 13	1015	283	23	627
Willson, Thomas A., and G. W. Meigs, Reading, Pa., assignors to said Willson. Spectacles and eyeglasses	289,740	Dec. 4	463	130	25	967
Wilmans, Frederick A., Dallas, Tex. Condenser	282,020	July 24	2116	590	24	386
Wilmarth, Thomas D., Providence, R. I. Thread-guide for spinning-machines	270,169	Jan. 2	403	116, 117	23	82
Wilmington Dental Manufacturing Company. (See Robinson, Alfred S., assignor.)						
Wilmington, William, Toledo, Ohio. Car-wheel chill	270,869	Jan. 16	1284	370	23	265
Wilmington, William, Toledo, Ohio. Casting car-wheels	273,658	Mar. 6	532	143	23	925
Wilmington, William, Toledo, Ohio. Casting car-wheels	281,422	July 17	1353	373	24	251
Wilmington, William, Toledo, Ohio. Car-wheel chill	282,625	Aug. 7	418	118	24	574
Wilmington, William, Toledo, Ohio. Casting car-wheels	283,311	Aug. 14	1004	281	24	687
Wilmington, William, Toledo, Ohio. Casting car-wheels	289,741	Dec. 4	464	131	25	968
Wilmot, Samuel R., assignor to himself and W. F. Hobbs, Bridgeport, Conn. Rolling-mill	281,595	July 17	1568	429	24	286
Wilmot, Samuel R., assignor to himself and W. F. Hobbs, Bridgeport, Conn. Rolling-mill roll	281,596	July 17	1571	429	24	287
Wilmot, Samuel R., assignor to himself and W. F. Hobbs, Bridgeport, Conn. Rolling-mill roll	281,597	July 17	1572	429	24	287
Wilsey, Sara L. (See Campbell, Charles, assignor.)						
Wilson, Abiel E., Worcester, Mass. Balanced rotary valve	278,648	May 29	2652	725	23	2111
Wilson, Arthur G., New York, N. Y. Paper box and lid	286,360	Oct. 9	735	197	25	144
Wilson, Arthur R., *et al.* (See Betts, Edgar K., assignor.)						
Wilson, Bennet C. (See Hunt and Wilson.)						
Wilson, Charles E., Chicago, Ill. Coffin-lifter	270,620	Jan. 16	979	283	23	208
Wilson, Charles E., Hyde Park, Ill. Mold for burial-cases	275,004	Apr. 3	152	42	23	1252
Wilson, Charles H., Paducah, Ky. Furnace	289,591	Dec. 4	275	77	25	936
Wilson, Charles H. and S. S., Paducah, Ky. Steam-boiler furnace	272,504	Feb. 20	1161	325	23	658
Wilson, Charles H., assignor to Western Electric Company, Chicago, Ill. Spring-jack and circuit for through telephone-lines	283,312	Aug. 14	1005	282	24	687
Wilson, Charles R., Detroit, Mich. Side spring	283,052	Aug. 14	691	194	24	630
Wilson, Darius. (See Osgood, James H., assignor.)						
Wilson, David H., *et al.*, executors. (See Rendle, William E.)						
Wilson, Edward L., assignor to American Bell Telephone Company, Boston, Mass. Telephone-transmitter	275,310	Apr. 3	545	148	23	1319
Wilson, Edward L., Boston, Mass., assignor to American Bell Telephone Company, of Massachusetts. Telephone-transmitter	287,490	Oct. 30	2167	588	25	421
Wilson, Eliza, New York, N. Y. Fire-escape	279,900	June 19	1583	444	23	2409
Wilson Eugene M., assignor of one-half to E. P. Carpenter, Worcester, Mass. Looping-in mechanism for telephone switch-boards	279,471	June 12	1074	298	23	2314
Wilson, F. Cortez, and Z. H. Bools, Chicago, Ill.; said Bools assignor to said Wilson. Machine for wiring sheet metal	277,180	May 8	846	224, 225	23	1777
Wilson, F. Cortez, and Z. H. Bools; said Bools assignor to said Wilson, Chicago, Ill. Machine for cutting sheet metal	279,899	June 19	1581	443	23	2408
Wilson, Fitzland L., assignor to Wilson Hoop Company, West Bay City, Mich. Hoop-cutting machine	283,942	Aug. 28	1783	504	24	848
Wilson, Frank, assignor of two-thirds to J. E. and J. L. Wilson, Easton, Pa. Grinding-mill	281,814	July 24	1869	510	24	345
Wilson, George, Toledo, Ohio. Machine for grooving boards for boxes	287,207	Oct. 23	1810	497	25	347
Wilson, George, and E. B. Loback, Vinton, Iowa. Nutmeg-grater	274,073	Mar. 13	1060	292	23	1024
Wilson, George F., New Castle, Pa. Stove-leg	280,273	June 26	2038	573	23	2495
Wilson, George W., assignor of one-half to B. A. Man, Lanesborough, Minn. Separator and purifier for meal, &c	281,655	July 17	1648	449	24	299
Wilson, Harry E. (See Betts and Wilson.)						
Wilson, Henry D., Abbeville, S. C. Head-rest and attachment for railway-car seats	272,395	Feb. 13	1015	284	23	627
Wilson, Henry W., Boston, Mass. Storage-basin for water-works	289,877	Dec. 11	633	176	25	1004
Wilson, Herbert S. (See Hammond and Wilson.)						
Wilson, Herbert S., assignor of one-half to H. J. Hammond, Kalamazoo, Mich. Windmill-motor	273,212	Feb. 27	2063	580	23	823
Wilson Hoop Company. (See Wilson, Fitzland L., assignor.)						
Wilson, J. Wall, New York, N. Y. Dumping boat or scow	279,683	June 19	1334	371	23	2364
Wilson, J. Wall, New York, N. Y. Dumping boat or scow	279,684	June 19	1336	371	23	2365
Wilson, James, Moundsville, W. Va. Wagon-lock	282,896	Aug. 7	419	118	24	574
Wilson, James B., Philadelphia, Pa. Umbrella-runner	273,330	Mar. 6	117	34	23	854
Wilson, James B., Philadelphia, Pa. Umbrella-runner	273,331	Mar. 6	118	34	23	854
Wilson, James E., *et al.* (See Wilson, Frank, assignor.)						
Wilson, James F. (See Fitts and Wilson.)						
Wilson, Jefferson, Beaver Falls, Pa. Washing-machine	274,072	Mar. 13	1059	292	23	1023
Wilson, Jesse B., *et al.* (See Simpson, Andrew J., assignor.)						
Wilson, John, Newark, N. J. Machine for curling hat-brims	289,202	Nov. 27	1765	489	25	840
Wilson, John A., Baltimore, Md. Gas-burner	275,311	Apr. 3	547	148	23	1319
Wilson, John A., assignor to P. Wilson & Sons, Cincinnati, Ohio. Hame	277,818	May 15	1590	435	23	1913
Wilson, John A., Spencer, assignor to J. R. Torrey, Worcester, Mass. Razor-strop	288,389	Nov. 13	766	206	25	648
Wilson, John C., Boston, Mass. Electrical apparatus for automatic signaling	279,065	June 5	555	152, 153	23	2218
Wilson, John C., Boston, Mass. Individual call	283,448	Aug. 21	1187	334	24	796
Wilson, John C., Boston, Mass. Multiple signal-box for fire and district telegraphs	284,527	Sept. 4	449	127, 128	24	980

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Wilson, John C., Boston, Mass. District signal apparatus	290,302	Dec. 18	1152	393	25	1105
Wilson, John C. Boston, and M. G. Davis, West Somerville, Mass.; said Davis assignor to said Wilson. Electric-signal box	288,536	Nov. 13	941	257 258	25	679
Wilson, John C., Cameron, Tex. Steam-engine	290,703	July 3	439	125	24	78
Wilson, John H. H., Saugus, Mass. Dipper-handle	280,274	June 26	2039	573	23	2495
Wilson, John L., *et al.* (See Wilson, Frank, assignor.)						
Wilson, John N., Carthage, Mo. Book-clamp	277,096	May 8	740	194	23	1758
Wilson, John N., Carthage, Mo. Writer's hand-relief	282,595	Aug. 7	146	43	24	526
Wilson, John N., Carthage, Mo. Adding-machine	289,483	Dec. 4	142	39	25	911
Wilson, John S., Indianapolis, Ind. Adjustable table	274,162	Mar. 20	1182	326	23	1052
Wilson, John T. (See Simpson and Wilson.)						
Wilson, John T., Easton, Mo. Corn-sheller	284,991	Sept. 11	1019	286	24	1086
Wilson, Joseph H., *et al.* (See Chamberlain, Blanchard, assignor.)						
Wilson, Joseph L., Waltham, Mass. Bicycle-seat	274,163	Mar. 20	1183	326	23	1053
Wilson, Joseph W., Wyandotte, Kans. Middlings-purifier	278,207	May 22	2074	571	23	2003
Wilson, Liston B., Zanesville, Ohio. Combined match and tooth-pick box	271,011	Jan. 23	1469	422	23	301
Wilson, Liston B., Zanesville, Ohio. Churn	280,690	July 10	681	192	24	127
Wilson, Nahum T. (See Wilson, Samuel J. and N. T.)						
Wilson, Obadiah, Plainville, N. Y. Rack and truck	290,160	Dec. 11	968	273	25	1066
Wilson, Ransom F. (See Knapp, Charles H., assignor.)						
Wilson, Richard T., *et al.* (See Greene, Jonathan H., assignor.)						
Wilson, Riley P., Cleveland, Ohio. Reverberatory smelting-furnace	284,992	Sept. 11	1019	286	24	1087
Wilson, Robert, Greenup, Ky. Air separator and feeder for bolts, &c	271,389	Jan. 30	1938	561	23	390
Wilson, Robert J., Pittsburg, Pa. Relief-valve for railway pressure-brakes	284,154	Aug. 28	2067	574	24	895
Wilson, Robert M., Brooklyn, N. Y. Fire-escape ladder	289,876	Dec. 11	631	176	25	1003
Wilson, Samuel J. and N. T., Rogersville, Mich. Milk-cooler	273,659	Mar. 6	534	143 144	23	925
Wilson, Samuel J. and N. T., Rogersville, Mich. Cover for vessels	286,755	Oct. 16	1227	331	25	238
Wilson, Samuel S. (See Wilson, Charles H. and S. S.)						
Wilson & Sons, P. (See Whitzel, Russell B., assignor.)						
Wilson & Sons, P. (See Wilson, John A., assignor.)						
Wilson, Stanislaus. (See Simpson and Wilson.)						
Wilson, Thomas. (See Dutton, Chauncey N., assignor.)						
Wilson, Thomas, and C. N. Dutton, Washington, D. C. Water-closet	280,108	June 26	1844	520	23	2461
Wilson, Thomas A., Lodi, Cal. Composition for ague	287,602	Oct. 30	2323	.....	25	451
Wilson, Thomas L., Port Hope, Ontario, assignor of one-half to S. Davis, Montreal, Quebec, Canada. Railway-car	277,819	May 15	1591	435	23	1913
Wilson, Thomas L., Port Hope, assignor of one-half to E. H. Davis, Toronto, Ontario, Canada. Railway-car	282,827	Aug. 7	420	118	24	574
Wilson, Thornton, Fillmore, Ind. Mechanism for converting motion	276,206	Apr. 24	1717	475	23	1545
Wilson, Walker & Co. (See Simpson and Wilson, assignors.)						
Wilson, Washington, *et al.* (See Betts, Edgar K., assignor.)						
Wilson, William H., Westfield, N. Y. Magazine or base-burning steam-generator	287,603	Oct. 30	2323	628	25	451
Wilson, William, Jr., assignor of one-half to C. Green, Greenville, Del. Apparatus for making barbed fence-wire	289,950	Dec. 11	715	202	25	1019
Wilson, William, Jr., assignor of one-half to C. Green, Greenville, Del. Apparatus for looping and cutting wire	290,955	Dec. 25	2015	556	25	1262
Wilson, William A., G. Duncan, Liverpool, England, and G. Lauder, Pittsburg, Pa. Apparatus for separating and folding paper	276,369	Apr. 24	1929	535	23	1580
Wilson, William B., *et al.* (See Shallus, William W., assignor.)						
Wilson, Zachariah G., New York, N. Y. Gummed money-strip	271,964	Feb. 6	457	125	23	591
Wilton, Benjamin A., Bergen Point, N. J. Motor for light machinery	276,518	Apr. 24	2112	587	23	1612
Wilton, Benjamin A., Bergen Point, assignor of one-half to J. McDonald, Bayonne, N. J. Bedstead-fastening	278,649	May 29	2653	726	23	2112
Wiltse, Charles G., New York, N. Y. Machine for bottling powders	283,313	Aug. 14	1007	282	24	688
Wilverth, Henry, St. Charles, Ky. Mining-machine	289,742	Dec. 4	466	131	25	968
Wilzin, Henry H. (See Bush and Wilzin.)						
Wimmer, George W. (See Kelly and Wimmer.)						
Wimpee, William, and J. C. Printup, Rome, Ga. Cotton-cleaner	283,733	Aug. 21	1522	429	24	780
Wimpee, William F., Centre, Ala. Fruit-picker	288,685	Nov. 20	1132	311	25	719
Winby, Frederick C., Westminster, England. Railway-rail and fish joint, &c., for railway-rails	284,155	Aug. 28	2069	574	24	895
Winchell, Addison H., *et al.* (See Lennon, Sayres N., assignor.)						
Winchell, James F., Springfield, Ohio. Power-converter	270,621	Jan. 16	980	283	23	208
Winchell, James F., Springfield, Ohio. Grinding-mill	273,927	Mar. 13	885	241 242	23	983
Winchell, James F., Springfield, Ohio. Sewing-machine-needle attachment	290,161	Dec. 11	969	274	25	1066
Winchell, James F., Springfield, Ohio. Sewing-machine	290,162	Dec. 11	970	274	25	1066
Winchester, Gilman K., Providence, R. I. Stop-motion for braiding-machines	280,109	June 26	1845	520	23	2461
Winchester & Partridge Manufacturing Company. (See Wilcox, Edward M., assignor.)						
Winchester Repeating Arms Company. (See Gardner, John, assignor.)						
Winchester Repeating Arms Company. (See Mason, William, assignor.)						
Winchester Repeating Arms Company. (See Parker, Edward, assignor.)						
Winchester, Theodore H., New Haven, Conn. Feed-gage for printing-presses	277,396	May 8	1089	293	23	1820
Wine, M. J. (See Roberts, Robert R., assignor.)						
Wine, Miletus J. (See Baden, Thomas E., assignor.)						
Wine, Miletus J. (See Gheen, John S., assignor.)						
Wine, Miletus J., Washington, D. C. File-box	290,615	Dec. 18	1576	433	25	1179
Wine, Miletus J., Washington, D. C. File-box	290,616	Dec. 18	1577	433 434	25	1179
Winebrener, John, Cromwell, Ind. Ice-hook	277,437	May 8	1141	307	23	1828
Winfree, Reuben. (See Taylor, Andrew W., assignor.)						
Winfree, Reuben, Keytesville, Mo. Horse hay-rake	290,725	Dec. 25	1727	477	25	1213
Wineman, Parker, Chicago, Ill. Two-wheeled vehicle	281,328	July 17	1239	343	24	231
Wing, Henry S., assignor to J. A. Wing, Ashtabula, Ohio. Carpet-stretcher	283,053	Aug. 14	692	194	24	630
Wing, Jennie A. (See Wing, Henry S., assignor.)						
Wing, Levi J., Brooklyn, N. Y. Grip for endless-cable ways	281,815	July 24	1870	511	24	345
Wing, Levi J., Brooklyn, N. Y. Ventilating apparatus	285,865	Oct. 2	107	32	25	21
Wingard, Adam, San Francisco, Cal. Dry-ore pulverizer and concentrator	289,791	Dec. 4	517	143	25	976
Wingate, Robert H., Wesson, Miss. Rail-supporter	288,907	Nov. 20	1399	386	25	767
Wingate, Thomas H. (See Woodward, T. Trask, assignor.)						
Winger, Elam B. (See Devore and Stover, assignors.)						
Winget, J. S. (See Winget, Marion A., assignor.)						
Winget, Marion A., assignor to J. S. Winget, Columbus, Ohio. Machine for coloring cigars	290,617	Dec. 18	1578	434	25	1179

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wingfield, George W. (See Wingfield, John H., assignor.)						
Wingfield, John H., Milford, Conn., assignor to G. W. Wingfield, Brooklyn, N. Y. Carpet-lining	276,118	Apr. 17	1611	444	23	1518
Winghart, William J. (See Whiting and Winghart.)						
Winghart, William J., and W. H. Rochford, New York, N. Y. Hat-tip	274,873	Mar. 27	2090	580	23	1216
Winkelmann, Johann F. A., and M. L. Stewart, Schell City, Mo. Vehicle-reach	272,929	Feb. 27	1717	480	23	762
Winkler, Charles F., Bakersfield, Cal. Incubator	286,756	Oct. 16	1228	332	25	238
Winkler, Gustavus R., Williamsport, Pa. Rocking piston-engine	277,648	May 15	1398	376, 377	23	1878
Winkless, William, Newport, Ky. Friction-clutch for elevators	285,866	Oct. 2	108	32	25	21
Winn, Ammi C. (See Barnes and Winn.)						
Winn, Charles, Birmingham, county of Warwick, England. Water-waste preventive for flushing water-closets	280,275	June 26	2039	574	23	2495
Winn, James H. (See Barnes and Winn, assignors.)						
Winn, James H., Benicia, assignor to Baker & Hamilton, San Francisco, Cal. Header	285,720	Sept. 25	1909	542	24	1257
Winn, John E., *et al.* (See Van Slyke, James M., assignor.)						
Winn, Walter W., Troy, N. Y. Apparatus for tempering and preparing clay for making brick	287,074	Oct. 23	1641	450, 451	25	316
Winne, Francis, Orland, Cal. Tire-setter	275,967	Apr. 17	1420	391	23	1486
Winnen, Jacob, and A. Heusch, Chicago, Ill. Machine for cutting meat	289,051	Nov. 27	1583	437, 438	25	807
Winslow, Charles F., Pawtucket, R. I. Pliers	289,052	Nov. 27	1586	438	25	807
Winslow, Henry O., assignor to E. Miller & Co., Meriden, Conn. Extension-chandelier	290,618	Dec. 18	1579	434	25	1179
Winsor, Ira. (See Jones, Idwal M., assignor.)						
Winsor, Joseph S., Providence, R. I. Loom for weaving flag matting	280,891	July 10	682	192, 193	24	127
Winter, Albert, Plainfield, N. J. Cloth-measuring machine	270,870	Jan. 16	1284	370	23	265
Winter, Charles G., Boston, Mass. Skin-measuring machine	281,745	July 24	1771	482	24	326
Winter, David T., assignor to H. W. Winter, Peabody, Mass. Stop-motion or safety-brake for machinery	289,949	Dec. 11	714	202	25	1019
Winter, Frederick, *et al.* (See Rinehart, Thomas M.)						
Winter, Frederick A., Thomson, Ga. Cartridge-loading machine	289,592	Dec. 4	276	77, 78	25	936
Winter, George K. (See Muirhead and Winter.)						
Winter, Helena W. (See Winter, David T., assignor.)						
Winter, Henry, Hanover, Ill. Hand-saw attachment	275,559	Apr. 10	907	246	23	1389
Winter, Herman, Brooklyn, N. Y., assignor to American Ship Windlass Company, Providence, R. I. Gearing-lubricator	276,987	May 1	588	155	23	1727
Winter, Herman, Brooklyn, N. Y., and F. S. Manton, assignors to American Ship Windlass Company, Providence, R. I. Power-windlass	276,988	May 1	589	155	23	1727
Winter, Martha A., Jersey City, N. J. Wardrobe	287,399	Oct. 23	2047	557	25	390
Winter, William, Albany, N. Y. Piano-pedal stool	290,163	Dec. 11	971	274	25	1066
Winterbottom, William S., Philadelphia, and J. Murray, Conshohocken, Pa. Bedstead	280,704	July 3	439	125	24	78
Winters, Milton I., Hamlin, Mich. Vehicle-wheel	287,075	Oct. 23	1642	451	25	317
Wire, Alfred P. (See Barff and Wire.)						
Wire, Theodore B., Geneva, Ohio. Car-dumper	280,430	July 3	115	31	24	22
Wirick, John A. (See Cochran, John, Jr., assignor.)						
Wirsching, Aloys, Brooklyn, N. Y. Printing-telegraph	286,667	Oct. 16	1115	300, 301	25	218
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen	288,290	Nov. 13	619	170	25	624
Wirth, Richard. (See Giersberg and Wirth.)						
Wise, August B. and M. D., Piqua, Ohio. Thill-coupling	275,740	Apr. 10	1131	309	23	1428
Wise, David, Paradise, Tex. Seed-planter	277,397	May 8	1090	293	23	1820
Wise, David, Cottondale, Tex. Cultivator	286,983	Oct. 16	1517	417	25	287
Wise, Joseph, assignor to J. Wise & Son, Watertown, N. Y. Combined drawer pull and lock	277,398	May 8	1091	293	23	1820
Wise, Michael D. (See Wise, August B. and M. D.)						
Wise & Son, J. (See Wise, Joseph, assignor.)						
Wise, Zenas L., *et al.* (See Williams, Paul W., assignor.)						
Wiseman, Edmund, Luton, county of Bedford, England. Presser-foot for straw-braid sewing-machines	285,333	Sept. 18	1431	404	24	1166
Wiseman, Ella, Fulton, Cal. Dish-washing machine	281,598	July 17	1573	430	24	287
Wiser, Samuel C., Chicago, Ill. Stock-car	274,240	Mar. 20	1285	354	23	1071
Wishard, Joseph, Indianapolis, Ind. Spring bed-bottom	273,660	Mar. 6	535	144	23	925
Wishard, Lucinda B. J., assignor of two-thirds to H. E. Drew and R. E. Springsteen, Indianapolis, Ind. Doll	280,986	July 10	800	223	24	147
Wisner, Son & Co., J. O. (See Heath, James S., assignor.)						
Wisniewski, Anton, *et al.* (See Klein, Joseph, assignor.)						
Wistance, Edward H., Springfield, Ohio. Fertilizer-distributer	286,361	Oct. 9	736	197	25	144
Wiswall, Alvah, assignor of one-half to M. Britton, Cincinnati, Ohio. Electric burglar-alarm	285,334	Sept. 18	1431	405	24	1166
Wiswall, Alvah, assignor of one-half to M. Britton, Cincinnati, Ohio. Portable circuit-closer for electric alarms	286,100	Oct. 2	396	109	25	73
Wiswall, Alvah, assignor of one-half to M. Britton, Cincinnati, Ohio. Protecting device for bank-safes	286,566	Oct. 9	982	264	25	188
Wiswall, Alvah, assignor to F. Voelckel, Cincinnati, Ohio. Electro-magnetic alarm	286,888	Oct. 16	1396	383	25	267
Wiswall, Francis, and W. H. Collier, Manchester, county of Lancaster, England. Construction of river and other weirs and sluice-gates	281,599	July 17	1574	430	24	287
Wiswell, Frederick A., Beebe Plain, assignor to C. C. Colby, Stanstead, Quebec, Canada. Manufacturing wire ropes and cables	276,315	Apr. 24	1850	515, 516, 517	23	1567
Wiswell, Frederick A., Beebe Plain, assignor to C. C. Colby, Stanstead, Quebec, Canada. Manufacturing wire rope	276,316	Apr. 24	1857	517, 518	23	1567
Wiswell, Frederick A., Beebe Plain, assignor to C. C. Colby, Stanstead, Quebec, Canada. Machine for the manufacture of wire rope	276,317	Apr. 24	1861	518, 519	23	1568
Wiswell, Frederick A., Beebe Plain, assignor to C. C. Colby, Stanstead, Quebec, Canada. Machine for making wire rope	276,318	Apr. 24	1870	519, 520	23	1569
Wiswell, George T., assignor to G. H. Warren, Shelburne Falls, Mass. Fork-guard	286,668	Oct. 16	1119	301	25	219
Wiswell, James M., *et al.* (See Ferguson, Robert W., assignor.)						
Wiswell, James M., *et al.* (See Foster, Hickman E., assignor.)						
Witherell, Alonzo E., Medford, and D. B. Clement, Boston, Mass. Bung-valve for barrels	288,390	Nov. 13	767	207	25	648
Witherow, James P. (See Gordon, Fredrick W., assignor.)						
Withers, Walter S., Atlanta, Ga. Molder's jointless plate	279,627	June 19	1264	350, 351	23	2353
Witherspoon, Frank, Paris, Tex. Windmill	279,066	June 5	557	153	23	2218

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Withington, James, Chambersburg, assignor to Trenton Iron Company, Trenton, N. J. Acid-tank	274,241	Mar. 20	1285	354	23	1071
Withington, James, Chambersburg, assignor to Trenton Iron Company, Trenton, N. J. Belt-tightener	280,276	June 26	2041	574	23	2496
Withrow, Mathew M., Sherman, Ill. Flood-fence	284,528	Sept. 4	451	128	24	981
Witman, George. (See Weldy and Witman.)						
Witmer, Joseph, Hope, Ark. Sawing attachment to planing-machine	288,147	Nov. 6	436	123	25	584
Witmer, Tobias, Williamsville, N. Y. Raising and supporting ladders	271,289	Jan. 30	1809	524	23	366
Witsil, George L., Camden, assignor to A. J. Delp, Woodbury, N. J. Button-hook	277,181	May 8	848	225	23	1777
Witt, Otto N. (See Koechlin and Witt.)						
Witt, Pleasant, Conkling, Tenn. Lifting-jack	280,000	June 26	1712	480	23	2437
Witte, William. (See Manneck and Witte.)						
Wittich, Frederick A. (See Southwick and Wittich.)						
Wittich, Frederick A. (See Strader and Wittich.)						
Wittich, Frederick A., and P. W. Strader, Ashtabula, Ohio. Attaching elevator-buckets to belts	281,746	July 24	1773	483	24	327
Wittman, George, assignor to D. Neustadter, San Francisco, Cal. Drawers	281,816	July 24	1872	511	24	345
Wittman, George, assignor to David Neustadter, San Francisco, Cal. Drawers	285,195	Sept. 18	1277	359	24	1137
Witsmann, Franz, New Haven, Conn. Stave-cutting machine	271,290	Jan. 30	1809	524 525	23	366
Wock, John, Canton, Ohio. Pump	285,093	Sept. 18	1156	323	24	1116
Wode, August, and J. Mifflin, Jr., Jersey City, N. J. Clothes-hook	285,094	Sept. 18	1157	323	24	1116
Woeber, Amos, Davenport, Iowa. Two-wheeled vehicle	277,968	May 22	1776	484	23	1950
Woeber, Amos, assignor of one-fourth to J. E. Bloom, Cincinnati, Ohio. Flying target	287,985	Nov. 6	252	72	25	551
Woelk, Edward A., Springfield, Mo., assignor to American Bell Telephone Company, Boston, Mass. Alarm-signal apparatus for telephone-exchanges	272,505	Feb. 20	1163	326	23	658
Woeppel, Ignatz, assignor to S. Shepard & Co., Buffalo, N. Y. Tea-kettle handle	290,956	Dec. 25	2018	557	25	1962
Woerd, Charles V., Waltham, Mass. Rolling-machine	270,170	Jan. 2	404	117	23	82
Woerd, Charles V., Waltham, Mass. Watch	271,965	Feb. 6	458	125	23	521
Woerd, Charles V., Waltham, Mass. Apparatus for grinding lathe-cutters	271,966	Feb. 6	460	126	23	521
Woerd, Charles V., Waltham, Mass. Machine for pointing, drilling, and tapping watch-balances	271,967	Feb. 6	461	126	23	521
Woerd, Charles V., Waltham, Mass. Velocipede	288,537	Nov. 13	944	258	25	660
Wogaman, Frank, *et al.* (See Kienardt, John A., assignor.)						
Wohlers, Emil, New York, N. Y. Injector	276,319	Apr. 24	1874	520	23	1570
Wohltmann, Wilhelm, New York, N. Y. Catarrh remedy	276,119	Apr. 17	1611	.....	23	1518
Wohnlich, Louis J., assignor to R. J. Scholes, W. and A. McFarland, Detroit, Mich. Capsule-stripper	270,716	Jan. 16	1105	316	23	231
Wolcott, Joseph L., assignor to Shaw, Kendall & Co., Toledo, Ohio. Relief-cock	273,213	Feb. 27	2064	580	23	823
Wolcott, Nelson A., Elmira, N. Y. Double-acting pump	278,208	May 22	2075	572	23	2003
Wolcott, Townsend, New York, N. Y. Armature for dynamo-electric machines	286,247	Oct. 9	574	158	25	115
Wolf, Abraham N., Allentown, Pa. Grinding-mill	279,067	June 5	558	153	23	2219
Wolf, Abraham N., assignor of one-half to W. Wood, Allentown, Pa. Roller-mill	288,750	Nov. 20	1217	333	25	733
Wolf, Atchison and J., Roanoke, Ind. Pitman-coupling	275,560	Apr. 10	908	246	23	1389
Wolf, Augustus, *et al.* (See Hunter, Edwin, assignor.)						
Wolf, David, Avon, Pa. Horse-power	269,980	Jan. 2	184	54	23	38
Wolf, Frederick W. (See Weinig, Paul, assignor.)						
Wolf, Frederick W., Chicago, Ill. Discharge-valve for maltsters' steep-tanks	282,477	July 31	2715	747 748	24	493
Wolf, George, *et al.* (See Le Grande, William W., assignor.)						
Wolf, George W. (See Rogers and Wolf.)						
Wolf, Jacob D. (See Washington, George L., assignor.)						
Wolf, John. (See Wolf, Atchison and J.)						
Wolf, Leopold, New York, N. Y. Toilet-case	279,302	June 12	855	237	23	2279
Wolf, Max, Brooklyn, N. Y. Fluid-measure	276,652	May 1	132	35	23	1649
Wolf, Paul. (See Platz, Rudolf, assignor.)						
Wolf, Samuel. (See Willmer, Samuel L., assignor.)						
Wolfe, Charles A., *et al.* (See Wolfe, Harvey R., assignor.)						
Wolfe, Edward W., assignor to Reading Iron Works, Reading, Pa. Machine for pushing tubes into furnaces	275,312	Apr. 3	548	149	23	1319
Wolfe, Harvey R., assignor to C. A. Wolfe, T. Brennan, W. G. Munn, and J. Leamy, Louisville, Ky. Smoke-consuming furnace	279,930	Feb. 27	1718	480	23	762
Wolfe, Horace S., assignor of three-fourths to W. H. McCourtie and C. Kellogg, Kalamazoo, Mich. Car-step	290,957	Dec. 25	2018	557	25	1962
Wolfe, William C., Hagerstown, Md. Portable steam-engine	284,701	Sept. 11	669	188	24	1023
Wolfenden, Shore & Co. (See Kaye, John, assignor.)						
Wolff, Arthur J. (See Miltimore and Wolff.)						
Wolff, George, and M. Wieser, New York, N. Y. Registering-turnstile	274,431	Mar. 20	1594	419	23	1112
Wolff, Justus, assignor to Albany Aniline and Chemical Works, Albany, N. Y. Production of coloring-matters from diazoamido compounds	277,182	May 8	849	.....	23	1777
Wolff, Justus, assignor to Albany Aniline and Chemical Works, Albany, N. Y. Manufacture of cardinal-red coloring-matter	285,335	Sept. 18	1433	.....	24	1166
Wolff, Lewis, London, England. Eraser	286,889	Oct. 16	1396	383	25	967
Wolfinger, Francis R., Chicago, Ill. Window-sash	288,751	Nov. 20	1218	333	25	733
Wolfrath, William H., New York, N. Y. Sash-fastener	280,987	July 10	801	223	24	147
Woliston, Romanus T., and S. W. Printz, Bonanza, Colo. Thill-coupling	276,120	Apr. 17	1612	444	23	1518
Wollensak, John F., Chicago, Ill. Bell	281,747	July 24	1775	483	24	327
Wolley, Albert, L. (See Coffield, Peter T., assignor.)						
Wolstenholme, Thomas, *et al.* (See Maybury, William, assignor.)						
Womack, Alexander, Emmettsville, Idaho Ter. Road-scraper	282,141	July 31	2291	699	24	421
Womeldorff, James W., Middleport, Ohio. Railway-ticket	286,101	Oct. 2	397	109	25	73
Womelsdorff, James W., assignor of one-half to F. L. Hersey, Guyandotte, W. Va. Ratchet-wrench	272,822	Feb. 20	1561	439	23	729
Wommack, Jesse H. (See Allmon, Wommack, and Highfill.)						
Wood, Alexander M., *et al.* (See Venner, Orange H., assignor.)						
Wood, Alfred, assignor of sixty-six one-hundredths to H. H. Humphrey and S. W. Itsell, Detroit, Mich. Mechanical speeding device	286,890	Oct. 16	1397	384	25	967
Wood, Augustus B., Fountain Hill, Ark. Seed-planter	285,336	Sept. 18	1433	405	24	1166
Wood, Augustus B., Fountain Hill, Ark. Rotary steam-engine	286,102	Oct. 2	398	109	25	73
Wood, Aurin, Worcester, Mass. Belt-pulley	280,775	July 3	547	152	24	96
Wood, Aurin, Worcester, Mass. Shaft-coupling	289,329	Nov. 27	1917	532	25	870
Wood, Calvin M. and R. M., Healdsburg, Cal. Car-axle box	273,928	Mar. 13	886	242	23	993
Wood, Charles A., Philadelphia, Pa. Sewing-machine	283,449	Aug. 21	1189	334	24	727
Wood, Edmund L., Eastland, Tex. Combined blacking-brush and blacking-box holder	275,107	Apr. 3	297	82	23	1277

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wood, Edwin A., Thompson, assignor of two-thirds to E. F. Brock and J. Bircher, Sterling, Ill. Child's carriage	270,561	Jan. 9	903	261	23	186
Wood, Elbridge J., Palmer, Mass. Book-holder	290,381	Dec. 18	1256	352	25	1194
Wood, Emery M., Chicago, Ill. Device for handling eggs	283,738	Aug. 21	1529	431	24	791
Wood, Frank B., assignor, by mesne assignments, to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Automatic signaling apparatus	275,005	Apr. 3	154	43	23	1252
Wood, Frank B., assignor, by mesne assignments, to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Automatic electric signaling apparatus	275,006	Apr. 3	159	43	23	1253
Wood, George B., Chicago, Ill. Animal-trap	280,431	July 3	116	31, 32	24	22
Wood, George H. (See Thayer, George B., assignor.)						
Wood, George H., Springfield, Mass. Bench-vise	274,242	Mar. 20	1286	354	23	1071
Wood, Harvey, Albany, N. Y. Wagon-tongue support	272,180	Feb. 13	738	204	23	580
Wood, James F., Woodyards, Ohio. Cane-mill	280,705	July 3	440	126	24	78
Wood, James J., Brooklyn, N. Y. Electric lamp	279,512	June 12	1128	312, 313	23	2322
Wood, James J., Brooklyn, assignor to Fuller Electrical Company, New York, N. Y. Electric lamp	279,472	June 12	1076	298, 299	23	2314
Wood, James S., Aledo, Ill. Hinge for sliding and rolling gates	276,949	May 1	543	142	23	1719
Wood, John, Cooperstown, N. Y. Car-coupling	279,303	June 12	856	237	23	2279
Wood, John F., Boston, Mass. Combined knife-brick box and grinder	290,619	Dec. 18	1580	434	25	1179
Wood, John H., assignor of one-half to F. L. McGowan, Boston, Mass. Stopper for jars and bottles	272,823	Feb. 20	1561	439	23	729
Wood, John M., assignor of two-thirds to W. H. Busser and M. M. Fouts, New Castle, Ind. Two-wheeled vehicle	272,396	Feb. 13	1016	284	23	627
Wood, Joseph S. (See Hadden and Wood.)						
Wood, Joseph S., Brooklyn, N. Y. Disinfecting apparatus	287,208	Oct. 23	1811	497	25	347
Wood, Joseph S., Brooklyn, N. Y. Gas-machine	288,752	Nov. 20	1219	333	25	734
Wood, Joseph S., Brooklyn, N. Y. Gas-machine	289,593	Dec. 4	278	78	25	936
Wood, Lorenzo D. C., Newark, N. J., and T. B. Dorrell, Brooklyn, N. Y. Fire-kindler	286,103	Oct. 2	399	109	25	73
Wood, Lyman C., and J. S. Taylor, Wichita, Kans. Thill-coupling	282,021	July 24	2117	580	24	386
Wood Mowing and Reaping Machine Company, Walter A. (See Rosebrooks, John M., assignor.)						
Wood, Myron G., Church's Corners, assignor of one-half to E. Van Patin, Wheatland, Mich. Cattle-stanchion	290,620	Dec. 18	1581	435	25	1180
Wood, Richard G., assignor of one-half to A. W. Osler, Cincinnati, Ohio. Carriage-coupling	282,142	July 31	2291	629	24	421
Wood, Richard G., assignor to Cincinnati Sulky Buggy Company, Cincinnati, Ohio. Two-wheeled vehicle	288,538	Nov. 13	945	258	25	680
Wood, Roldo M. (See Wood, Calvin M. and R. M.)						
Wood, Thomas W., assignor of one-half to T. M. Shafto, Asbury Park, N. J. Spirit-level	280,706	July 3	441	126	24	78
Wood, W. Dewees. (See Morgan, Thomas R., Sr., assignor.)						
Wood, Walter J., Atlanta, Ga. Stove-shelf	279,068	June 5	558	153	23	2219
Wood, William A., Meadville, Mo. Railway-switch	280,988	July 10	802	223	24	148
Wood, William B., Bowling Green, assignor of one-half to L. C. Garrigus, Russellville, Ky. Railway crossing and station signal	275,313	Apr. 3	549	149	23	1319
Wood, William E., Houston, Tex. Cap	290,621	Dec. 18	1582	435	25	1180
Wood, William H., assignor of one-half to D. G. Weaver, Rochester, N. Y. Insole for boots	278,302	May 22	2212	606, 607	23	2026
Wood, William M., and W. L. Bailie, U. S. Navy. Compressing engine or pump	278,068	May 22	1891	518	23	1971
Wood, William M., and W. L. Bailie, Washington, D. C. Ice-machine	283,054	Aug. 14	693	1945	24	630
Wood, Winslow. (See Wolf, Abraham N., assignor.)						
Woodard, James H., assignor of one-half to J. W. Sherwood, Indianapolis, Ind. Machine for sealing newspapers	285,337	Sept. 18	1434	405	24	1166
Woodard, James H., assignor of one-half to J. W. Sherwood, Indianapolis, Ind. Seal for newspapers	285,370	Sept. 18	1480	417	24	1173
Woodard, Lyman E., Owosso, Mich. Horse-collar	272,824	Feb. 20	1562	439	23	729
Woodard, Stephen, Delano, Minn. Siding-bracket	276,950	May 1	544	142	23	1719
Woodard, William H., Cleveland, Ohio. Vapor-burner	281,423	July 17	1354	373	24	251
Woodbridge, James E., assignor to himself and F. N. Gardner, Hartford, Conn. Die for cutting screw-threads	269,981	Jan. 2	186	54	23	39
Woodbridge, William E., Washington, D. C. Wire-wound gun	271,561	Jan. 30	2157	621	23	428
Woodbury, Charles J. H., Lynn, Mass. Electric testing apparatus	274,074	Mar. 13	1060	293	23	1024
Woodbury, Clark. (See Sawyer, Woodbury, and Lane.)						
Woodbury, Clark, assignor of one-half to E. A. Allen, Oldtown, Me. Safety device and cut-off for chimney-funnels	278,069	May 22	1893	519	23	1971
Woodbury, Daniel A., Rochester, N. Y. Life-preserver	276,121	Apr. 17	1613	444	23	1518
Woodbury, Edward F. (See Woodbury, Merrill, Patten, and Woodbury.)						
Woodbury, George E., San Francisco, Cal. Street-sweeping machine	274,164	Mar. 20	1184	326	23	1053
Woodbury, James A., J. Merrill, G. Patten, and E. F. Woodbury, Boston, Mass. Air-engine heater	289,484	Dec. 4	142	39	25	911
Woodbury, James A., J. Merrill, G. Patten, and E. F. Woodbury, Boston, Mass. Heater for air-engines	289,485	Dec. 4	143	40	25	911
Woodbury, Joseph D., Springfield, Mass. Hair-crimper	283,183	Aug. 14	847	237	24	657
Woodbury, Madison L., St. Albans, Vt. Compound packing for hot journals on cars, &c.	280,277	June 26	2042	.....	23	2496
Woodbury, Oscar D., New York, N. Y. Stop for spring-rollers	285,772	Sept. 25	1984	561	24	1269
Woodbury, Seth D., Lynn, Mass. Fire-escape	282,478	July 31	2717	748	24	494
Woodcock, Richard. (See Bushey and Woodcock.)						
Woodcock, William, Elizabeth, N. J. Brake-beam for railway-cars	270,871	Jan. 16	1286	370	23	265
Woodcock, William, Elizabeth, N. J. Metallic brake-beam	276,122	Apr. 17	1615	444	23	1519
Woodford, Hervey M., Marcellus, N. Y. Wagon-tongue support	284,529	Sept. 4	452	128	24	981
Woodford, Romanta D., Cortland, N. Y. Vehicle-seat lock	281,600	July 17	1576	431	24	287
Woodhouse, Thomas, Plainville, Conn. Machine for cutting and folding strips of cloth	273,790	Mar. 13	716	194	23	965
Woodin, Charles M., Everett, Mass. Slat-supporter for bedsteads	273,332	Mar. 6	120	34	23	854
Wooding, Ralph A. (See Griswold and Wooding.)						
Wooding, Ralph A., Kensington, assignor to C. Parker Company, Meriden, Conn. Shade-ring clamp	273,420	Mar. 6	231	62	23	873
Wooding, Ralph A., Kensington, assignor to C. Parker Company, Meriden, Conn. Extension-fixture for chandeliers	281,656	July 17	1649	450	24	300
Woodlief, George T., and G. R. Dunn, Calvert, Tex. Boot and shoe indicator	275,108	Apr. 3	298	82	23	1277
Woodman, Horace, Saco, Me. Mechanism for stripping the top-flats of carding-engines	280,774	July 3	545	152	24	96
Woodman, Joel H., New York, N. Y. Seat and back of chairs, settees, car-seats, &c	271,757	Feb. 6	206	58	23	476
Woodman, Joseph C., assignor to F. H. & D. Briggs & Co., Auburn, Me. Shirt	271,180	Jan. 23	1673	481	23	334
Woodman, Robert, Malden, Mass. Ticket-punch	285,867	Oct. 2	109	32	25	21
Woodman, William F., and J. C. Johansen, Easton, Pa. Combined sofa and lounge	276,123	Apr. 17	1615	445	23	1519

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Wuerfel, Ernest, New York, N. Y. Button	281,425	July 17	1356	374	24	251
Wuerfel, John C., Toledo, Ohio. Saw-mill	272,610	Feb. 20	1296	361	23	681
Wullen, Frederick, and C. Mayser, Buffalo, N. Y. Machine for pitching barrels	270,272	Jan. 9	594	154	23	113
Wunderlich, Edmund J. (See Bechtel, Wunderlich, and Stetzelberger.)						
Wunderlich, Jacob H., Allegheny city, Pa., assignor of one-half to W. H. Johnston, North Fairfield, Ohio. Burial apparatus	289,878	Dec. 11	635	176	25	1004
Wünsche, Richard, Herrnhut, Saxony, Germany. Potato-planter	283,317	Aug. 14	1011	283	24	688
Wurth, Charles N., Camden, N. J., assignor to J. Loeb, Cheltenham, M. and D. Schoenfeld, Philadelphia, Pa. Embroidering-machine	271,182	Jan. 23	1675	482 483 484	23	335
Wuterich, Christian, and G. V. Sheffield, assignors to Sheffield & Wuterich Sewing Machine Company, New York, N. Y. Sewing-machine	276,653	May 1	133	35, 36	23	1650
Wuth, William A. O., Pittsburg, Pa. Manufacture of steel by the open-hearth process	279,473	June 12	1081	.....	23	2315
Wyatt, Thomas, and J. F. Holmes, Providence, R. I. Fire-escape ladder	280,433	July 3	120	32	24	23
Wyckoff, Ambrose C., Danville, Va. Shutter-worker	281,748	July 24	1775	483	24	327
Wyckoff, Arcalous, Elmira, N. Y. Vehicle-wheel	278,479	May 29	2445	667	23	2076
Wyckoff, James, *et al.* (See Benedict, Richard W., assignor.)						
Wyckoff, James, *et al.* (See Sweet, Lebbeus, assignor.)						
Wyer, John D., assignor to W. W. Wyer, Fillmore, Ohio. Wagon-brake	274,874	Mar. 27	2090	580	23	1217
Wyer, William W. (See Wyer, John D., assignor.)						
Wyeth, David G., Newark, Ohio. Buggy-top	270,195	Jan. 2	432	125	23	88
Wygant, John C., Outville, Ohio. Drag-saw machine	271,968	Feb. 6	465	127	23	522
Wyke, John, Boston, Mass. Screw-cutting gage	284,702	Sept. 11	670	188	24	1024
Wylie, James J., Sodus, N. Y. Combined hammer and box opening and scraping device	281,818	July 24	1874	512	24	345
Wyman, Horace. (See Crompton and Wyman.)						
Wyman, Horace, Worcester, Mass. Mechanical movement	275,006	Apr. 3	163	44	23	1254
Wyman, Horace, Worcester, Mass. Mechanical movement	283,364	Aug. 14	1062	304	24	701
Wyman, Horace, Worcester, Mass. Mechanical movement	283,451	Aug. 21	1191	334 335	24	727
Wyman, Horace, assignor to G. Crompton, Worcester, Mass. Mechanical movement	275,109	Apr. 3	299	82	23	1278
Wynkoop, Jehiel F., Philadelphia, Pa. Dust-pan	280,990	July 10	804	224	24	148
Wynne, James A., Poore's Mills, Ga. Riding-saddle	270,196	Jan. 2	433	125	23	89
Wynns, George W., Union, N. C. Hog-cholera remedy	289,487	Dec. 4	146	.....	25	912
Wyrick, Clarence M. (See Davis, Wyrick, and Parker.)						
Wythe, William W., Red Bank, N. J. Automatic brake for hoisting-machines	279,304	June 12	856	237	23	2279
Wythe, William W., Red Bank, N. J. Hoisting apparatus	279,305	June 12	857	238	23	2279
Wythe, William W., Red Bank, N. J. Clutch	283,452	Aug. 21	1192	335	24	727
Yagn, Nicholas, St. Petersburg, Russia. Hydraulic motor	273,930	Mar. 13	890	243	23	994
Yakel, Levi, Allegheny, Pa., assignor to Brown & Co. Machine for rolling socket-blanks for oil-well rods. (Reissue)	10,314	Apr. 10	1222	334	23	1442
Yale Lock Manufacturing Company. (See Capen, Thomas W., assignor.)						
Yale Lock Manufacturing Company. (See Harrison and Underhill, assignors.)						
Yale Lock Manufacturing Company. (See Weston, Thomas A., assignor.)						
Yale & Towne Manufacturing Company. (See Capen, Thomas W., assignor.)						
Yale & Towne Manufacturing Company. (See Kempson, Frank K., assignor.)						
Yale & Towne Manufacturing Company. (See Stockwell, Emory, assignor.)						
Yale & Towne Manufacturing Company. (See Stockwell, Emory and H. C., assignors.)						
Yale & Towne Manufacturing Company. (See Stockwell, Herbert C., assignor.)						
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)						
Yancey, William L., assignor to M. E. Page and R. P. Pattison, Chicago, Ill. Candy-machine	286,567	Oct. 9	984	264 265	25	189
Yard, Henry C., *et al.* (See Malick, Wesley, assignor.)						
Yarian, David, Swan, Ind. Chart-holder	281,601	July 17	1577	431	24	227
Yarington, Charles H., Torrington, Conn. Making brass-headed nails	272,010	Feb. 6	520	140	23	530
Yarnall, Ace, Williamsport, Pa. Binding-roller for gang-saw mills	288,910	Nov. 20	1405	387	25	768
Yaryan, Homer T., Toledo, Ohio. Process of and apparatus for purifying oxidizable liquids	280,549	July 3	255	68	24	46
Yaryan, Homer T., Toledo, Ohio. Percolator for extracting oil from seeds, &c	280,550	July 3	256	69	24	46
Yates, Arthur P., Syracuse, N. Y. Combined pocket-case and cigar-clipper	283,055	Aug. 14	694	195	24	630
Yates, Henry G., San Francisco, Cal., assignor to Planetary Wheel Manufacturing Company, of California. Car-wheel	278,843	June 5	232	68	23	2163
Yates, Henry G., assignor of two-thirds to L. W. Boyer, Philadelphia, Pa., and R. G. Brush, San Francisco, Cal. Anti-friction bearing	281,950	July 24	2032	556	24	373
Yates Manufacturing Company. (See Bridgman and Challoner, assignors.)						
Yeager, Joseph, *et al.* (See Collings, William, assignor.)						
Yeagley, Jacob B., Indianapolis, Ind. Apparatus for raising water from wells having water-bearing strata of different hydrostatic levels	285,774	Sept. 25	1986	562	24	1969
Yeaw, Isaac H., assignor of one-half to J. Knight, Hope, R. I. Derrick	285,721	Sept. 25	1910	542	24	1256
Yeiter, Jacob, Lowell, Mich. Fence	277,821	May 15	1593	436	23	1913
Yellott, George, Towson, Md. Hydraulic ram	281,749	July 24	1776	483	24	327
Yentzer, Enoch S., assignor to G. W. and F. M. Yentzer, Ottawa, Ill. Ruffler for sewing-machines	274,077	Mar. 13	1063	293 294	23	1024
Yentzer, Frank M., *et al.* (See Yentzer, Enoch S., assignor.)						
Yentzer, George W., *et al.* (See Yentzer, Enoch S., assignor.)						
Yeoman, William, and E. M. Drum, Versailles, Ky. Sulky	272,397	Feb. 13	1017	284	23	627
Yerby, Henry C., and E. B. Stilson, Leslie, assignors of one-third to W. S. Palmer, Lansing, J. and H. Sayers, Leslie, Mich. Hand-power log-saw	282,943	Aug. 7	553	156	24	599
Yereance, James. (See Burnet, William H., assignor.)						
Yoch, Benhard, St. Louis, Mo. Brake and truck for mining-machines	283,943	Aug. 28	1784	504	24	848
Yoch, Benhard, St. Louis, Mo. Steam-engine for mining purposes	286,105	Oct. 2	400	110	25	73
Yoch, Benhard, St. Louis, Mo. Mining-machine	286,364	Oct. 9	740	198	25	145
Yocom, James, Jr., Philadelphia, Pa. Divided casting	279,069	June 5	559	154	23	2219
Yocom, James, Jr., Philadelphia, Pa. Shears	283,056	Aug. 14	696	195	24	631
Yoder, Aaron B., and A. Schwenk, Kansas City, Mo. Apparatus for laying and stretching carpets	282,596	Aug. 7	147	44	24	526
Yoder, Christian P., and C. C. Carmien, Goshen, Ind. Hand broadcast-seeder	277,861	May 15	1645	448	23	1922
Yoder, Lorenzo T., Pittsburg, Pa. Manufacture of candy	289,488	Dec. 4	146	40	25	912
Yoe, Philip, Cincinnati, Ohio, assignor to Indicator Lock Company, Bloomington, Ill. Indicator-lock	274,875	Mar. 27	2091	580 581	23	1217
Yoe, Philip, Cincinnati, Ohio, and J. Kirby, Jr., Ludlow, Ky. Padlock	275,970	Apr. 17	1422	392	23	1487
Yolton, Madison. (See Lance and Yolton.)						
Yonge, Robert G., St. Louis, Mo. Combination-tool	284,109	Aug. 28	2007	559	24	885
Yonker, Charles D. (See Veber, William F., assignor.)						
Yonley, Harvey W., Denver, Colo. Device for opening and closing carriage-doors	282,597	Aug. 7	148	44	24	526

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
York, Edward L., *et al.* (See McAllister, Guy W., assignor.)						
York, Levi D. (See Bowater and York.)						
York, Levi D., Portsmouth, Ohio. Blast-furnace for burning gaseous fuel	288,607	Nov. 13	1029	283	25	696
York, Levi D., assignor to York Manufacturing Company, (limited,) Portsmouth, Ohio. Road-scraper. (Reissue)	10,390	Oct. 2	472	129	25	88
York Manufacturing Company. (See York, Levi D., assignor.) (Reissue.)						
York, Nathaniel S., and A. W. Lane, Rockport, Mass. Manufacture of oiled water-proof fabrics	270,717	Jan. 16	1106	316	23	231
Yost, Charles F. (See Laney and Yost.)						
Yost, George W. N., New York, N. Y., assignor to American Writing Machine Company, of New York. Type-writer	285,096	Sept. 18	1158	323	24	1116
Young, Albert C. (See Ellerbeck and Young.)						
Young, Alexander J., Atlanta, Ga. Memorandum-pointer	282,829	Aug. 7	421	119	24	575
Young, Barker C., Boston, Mass. Machine for securing buttons	271,183	Jan. 23	1680	484	23	335
Young, Charles M., assignor of one-third to Dennett Harvesting Machine Company, (limited,) Milwaukee, Wis. Bundle-discharging device for grain-binders	285,540	Sept. 25	1696	475	24	1217
Young, Charles W., Dartmouth, Nova Scotia, Canada. Swing	270,872	Jan. 16	1286	371	23	265
Young, Cornelius, Selma, Ala. Seed-planter and fertilizer-distributer	287,210	Oct. 23	1813	497, 498	25	348
Young, Cornelius, assignor of one-half to Howland & Co., Sandy Hill, N. Y. Stuff-regulator for paper-machines	276,127	Apr. 17	1619	446	23	1520
Young, David G., Columbia, N. Y. Curd-cutter	271,969	Feb. 6	465	127	23	522
Young, Edmund L., and L. Dyer, Millbridge, Me. Axle-lubricator	272,398	Feb. 13	1018	284	23	627
Young, Franklin, assignor to Palmer Wire Company, Palmer, Mass. Hook for hats, &c.	282,023	July 24	2119	580	24	386
Young, Franklin E., Canton, Ohio. Traction-wheel	282,022	July 24	2118	580	24	386
Young, Franklin E., Canton, Ohio. Surgical chair	289,743	Dec. 4	467	131, 132	25	968
Young, Hannah G. (See Young, Leonard, assignor.)						
Young, Henry M., Minneapolis, Minn. Steam-boiler heater	285,453	Sept. 25	1586	446	24	1198
Young, Horace A., Worcester, Mass. Removing surplus material from articles coated with melted metal	287,076	Oct. 23	1643	451	25	317
Young, Hugh, and H. G. Hubert, New York, N. Y. Machine for scouring and polishing stone	290,304	Dec. 18	1156	334	25	1106
Young, J. B. (See Macpherson, David J., assignor.)						
Young, James. (See Young, Peter and J.)						
Young, James B., *et al.* (See Seaman, Joseph S., assignor.)						
Young, James E., assignor of one-half to O. M. Avery, Genoa, N. Y. Calendar-clock	279,650	June 19	1523	426	23	2398
Young, James W. (See Bachman, Albert, assignor.)						
Young, John. (See Haskins, Benjamin H., assignor.)						
Young, John M., Baldwinsville, N. Y. Metallic rake and rake-blank	277,529	May 15	1257	338	23	1854
Young, John R., Jr., Norfolk County, Va. Fertilizer	278,383	May 29	2331	.....	23	2056
Young, John R., Jr., Norfolk County, Va. Fertilizer	278,384	May 29	2331	.....	23	2056
Young, John R., Jr., Norfolk County, Va. Fertilizer	278,480	May 29	2446	.....	23	2076
Young, John W., Fort Moroni, Ariz. Ter. Safety device for bridges and elevated-railway structures	282,024	July 24	2120	581	24	387
Young, John W., Fort Moroni, Ariz. Ter. Metallic railway-tie	284,157	Aug. 28	2071	575	24	896
Young, Josiah L., Tarrytown, N. Y. Type-writing machine	289,489	Dec. 4	147	40, 41	25	912
Young, Leonard, assignor to H. G. Young, Sing Sing, N. Y. Ice-creeper	290,165	Dec. 11	973	275	25	1007
Young, McClintock, Frederick, Md., assignor to Diamond Match Company, of Connecticut. Apparatus for filling match-splints for dipping	271,563	Jan. 30	2159	621, 622, 623	23	429
Young, Peter and J., Monticello, Iowa. Apparatus for tightening tires	272,896	Feb. 20	1564	440	23	730
Young, Robert, Hartford, Conn. Fluting-iron	278,650	May 29	2653	736	23	2112
Young, Robert T. (See Peet, Benjamin F., assignor.)						
Young, Sutton E., and E. F. Pugsley, Sioux Falls, Dak. Ter. Fence-post	273,334	Mar. 6	121	35	23	854
Young, Thomas J., North Plainfield, N. J. Toy pistol	287,987	Nov. 6	255	73	25	552
Young, Ward W., Paulding, Ohio. Sleeve or cuff button	274,245	Mar. 20	1290	355	23	1072
Young, Wesley. (See Norris and Young.)						
Young, Wesley, Dayton, Ohio. Hedge-fence	275,317	Apr. 3	554	151	23	1320
Young, Wesley, Dayton, Ohio. Implement for wiring hedge-fences	287,077	Oct. 23	1644	451	25	317
Young, Wesley, M. Neil, and C. M. Wetzel, Dayton, Ohio; said Neil and Wetzel assignors to said Young. Implement for driving staples	288,191	Nov. 6	489	136	25	593
Young, William, and A. Neilson, Clippens, county of Renfrew, Scotland, assignors to J. and J. Siddeley, Liverpool, England. Refrigerating liquids and means employed therefor; also apparatus for the subsequent treatment of the refrigerated liquids	277,892	May 15	1594	426	23	1914
Young, William E., Clayton, Ill. Stock-watering device	282,146	July 31	2296	630	24	421
Young, William H., *et al.* (See Anderson, David H., assignor.)						
Young, William H., assignor of one-half to B. MacMackin, Wilmington, Del. Pipe-organ	272,181	Feb. 13	739	204	23	580
Young, William H. H., Baltimore, Md. Railway-car	280,280	June 26	2044	575	23	2496
Young, William S., St. John, Mo. Trace-carrier	279,474	June 12	1083	299	23	2315
Young, Wyman, assignor to Palmer Wire Company, Palmer, Mass. Wire bale-tie	285,338	Sept. 18	1435	405	24	1166
Youngman, Charles A., assignor of one-half to J. W. Fowler, Louisville, Ky. Fire-escape	288,149	Nov. 6	438	123	25	584
Youngs, Fred E. (See Conroy and Youngs.)						
Youngs, George B., assignor of one-half to A. H. Nirdlinger, Rochester, N. Y. Spirit-level	285,775	Sept. 25	1990	563	24	1269
Yount, Albert R., Yountsville, Ind. Fire-escape	285,197	Sept. 18	1279	360	24	1138
Yount, Warren, assignor to himself and P. N. Staff, Terre Haute, Ind. Piano-stool	270,273	Jan. 9	526	154	23	113
Yule, John, Paterson, N. J., assignor to McNab & Harlin Manufacturing Company, of New York. Lubricator	287,988	Nov. 6	256	73	25	552
Zabekow, Otto, Berlin, Germany. Mechanical musical instrument	290,726	Dec. 25	1727	477	25	1213
Zacharias, Christof, Vienna, Austria-Hungary. Smoke-consuming furnace	275,451	Apr. 10	771	206	23	1366
Zachos, John C., New York, N. Y. System or method of reporting speech	290,830	Dec. 25	1859	514	25	1236
Zachringer, William, New Orleans, La. Billiard-cue	286,670	Oct. 16	1121	302	25	219
Zahm, Bernhard F., St. Paul, Minn. Hanging device for exhibiting goods	280,434	July 3	122	32	24	23
Zander, Franz, assignor to I. and S. Kaufmann, New York, N. Y. Box for toilet-sets	275,110	Apr. 3	300	83	23	1278
Zane, Joseph, Boston, Mass. Ball-cock	279,685	June 19	1337	372	23	2365
Zane, Joseph, Boston, Mass. Spring-compression faucet	286,365	Oct. 9	741	198, 199	25	145
Zassenhaus, Friedrich, Cleves, Prussia, Germany. Device for converting motion	284,530	Sept. 4	453	128	24	981
Zegenhine, Henry. (See Heverling, John B., assignor.)						
Zehnder, Henry F., assignor of one-fourth to M. Deutscher, Buffalo, N. Y. Machine for cutting green corn from the cob	278,210	May 22	2078	572, 573	23	2003
Zeigler, George W., Norwalk, Ohio. Carpet-sweeper	280,435	July 3	123	33	24	23
Zeigler, George W., Norwalk, Ohio. Carpet-sweeper	283,318	Aug. 14	1012	283, 284	24	689

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Zeis, Victor. (See Schuessler, August T., assignor.)						
Zeising, Charles A., Atlantic City, N. J., and H. A. Weihmann, Jr., Philadelphia, Pa. Device for affixing postage-stamps, &c	279,070	June 5	561	154	23	2219
Zell, Robert R., Baltimore, Md. Gas combining and heating block for furnace bridge-walls, &c	273,661	Mar. 6	536	144	23	926
Zeller, John H., *et al.* (See Gilliland, James F., assignor.)						
Zeller, John J. (See Zeller, Melancthon E., assignor.)						
Zeller, Joseph S. (See Shute and Albright, assignors.)						
Zeller, Melancthon E., Bluffton, Ohio. Harness pad and tree	274,678	Mar. 13	1067	294	23	1025
Zeller, Melancthon E., Bluffton, Ohio, assignor to O. B. North & Co., New Haven, Conn. Harness-buckle	271,564	Jan. 30	2163	623	23	429
Zeller, Melancthon E., Bluffton, Ohio, assignor to O. B. North & Co., New Haven, Conn. Gag-runner	271,970	Feb. 6	467	127	23	522
Zeller, Melancthon E., Bluffton, assignor of one-half to J. J. Zeller, Ottawa, Ohio. Thill-coupling	273,791	Mar. 13	717	195	23	965
Zeller, Thomas B., Centre Road Station, assignor of one-half to J. C. Gehr, Gehrton Station, Pa. Animal-trap	272,507	Feb. 20	1166	326	23	658
Zellers, Mahlon M., Kent, Ohio. Valve	272,827	Feb. 20	1565	440	23	730
Zellers, Mahlon M., Kent, Ohio. Machine for making rope, &c	275,743	Apr. 10	1144	310, 311	23	1428
Zellers, Mahlon M., Kent, Ohio. Machine for making button-fasteners	284,158	Aug. 28	2072	575, 576	24	896
Zellers, Mahlon M., Kent, Ohio, assignor to Wilkins Shoe Button Fastener Company, Meadville, Pa. Machinery for applying shoe-button fasteners	282,830	Aug. 7	422	119, 120	24	575
Zellers, Mahlon M., Kent, Ohio, and A. G. Wilkins, assignors to Wilkins Shoe Button Fastener Company, Meadville, Pa. Hand-machine for attaching buttons	284,159	Aug. 28	2075	576, 577	24	896
Zellers, Theodor A., assignor to Ottawa Glass Company, Ottawa, Ill. Glass-pot	287,355	Oct. 23	1991	543	25	380
Zellweger, John, Chicago, Ill. Gas-producer	271,673	Feb. 6	105	22	23	458
Zellweger, John, Chicago, Ill. Recuperator-furnace	279,475	June 12	1083	299, 300	23	2315
Zellweger, John, Chicago, Ill. Gas-producer	282,025	July 24	2121	581	24	367
Zeltner, Ernst T., and F. Schenk, Hoboken, N. J. Castanet	283,550	Aug. 21	1303	364	24	748
Zengel, Joseph, Dayton, Ohio. Machine for the manufacture of fences	289,490	Dec. 4	149	41	25	912
Zeppenfield, Robert, St. Louis, Mo. Car-axle box	272,508	Feb. 20	1167	326	23	658
Zerban, Andrew, New York, N. Y. House-cooling device	269,983	Jan. 2	187	54	23	39
Zerban, Andrew, New York, N. Y. Kitchen-ventilator	273,216	Feb. 27	2067	581	23	923
Zerbe, James S. (See Hausa, McNamara, and Zerbe.)						
Zerbe, James S., and A. J. White, Cincinnati, Ohio. Cotton-seed huller and separator	289,365	Nov. 27	1960	546	25	877
Zerman, William, Trenton, N. J. Insertible saw-tooth	274,876	Mar. 27	2093	581	23	1217
Zerr, John, Keokuk, Iowa. Fire-escape	286,519	Oct. 9	923	249	25	178
Zeyen, Leopold. (See Bötter, Carl, assignor.)						
Ziegele, John. (See Gilleland and Ziegele.)						
Zieger, Lewis F., Philadelphia, Pa. Machine for cutting furs	289,594	Dec. 4	280	78	25	936
Ziegler, Benjamin H. (See Ziegler, Enoch and B. H.)						
Ziegler, Charles W., Scranton, Pa. Machine for separating impurities from coal	277,530	May 15	1259	338	23	1854
Ziegler, Enoch and B. H., Berlin, Ontario, Canada. Buggy-gearing	283,843	Aug. 28	1662	469	24	825
Zimmer, Henry, assignor of one-half to M. Hays, Rochester, N. Y. Apparatus for registering votes	272,011	Feb. 6	521	140	23	530
Zimmerling, Charles, assignor to E. K. Tryon, Jr., Philadelphia, Pa. Soap	286,568	Oct. 9	986	265	25	189
Zimmerman, Arnold W., Chicago, Ill. Car-door	281,170	July 10	1021	286	24	187
Zimmerman, Arnold W., Chicago, Ill. Car-door fastener	282,598	Aug. 7	149	45	24	527
Zimmerman, Christian H., Le Roy, Ohio. Car-coupling	285,722	Sept. 25	1911	542	24	1258
Zimmerman, Franklin T. (See Weamer and Zimmerman.)						
Zimmerman, Noah R., Elizabeth City, N. C. Car-coupling	277,823	May 15	1597	437	23	1914
Zincke, Carl F. A., Hamburg, Germany. Horseshoe	289,330	Nov. 27	1917	533	25	870
Zingler, Maximilian. (See Kingzett and Zingler.)						
Zinn & Messer. (See Mulligan, Charles V., assignor.)						
Zins Brothers. (See Zins, Nickolaus, assignor.)						
Zins, Nickolaus, assignor to Zins Brothers, Evansville, Ind. Chill-mold for dog-irons	289,366	Nov. 27	1961	546	25	878
Zinsmaier, Robert, and M. Burt; said Burt assignor to I. B. Grandy and J. B. Burt, Galion, Ohio. Motor for use near railways	272,012	Feb. 6	523	141	23	570
Zipernowsky, Karl, and M. Déri, Buda-Pesth, Austria-Hungary. Dynamo-electric machine.	284,110	Aug. 28	2008	559	24	885
Zistel, Louis, Sandusky, Ohio. Pipe-coupling	284,350	Sept. 4	234	65	24	944
Zook, Jonathan, Hanpatch, Ind. Gate	282,026	July 24	2124	582	24	387
Zschech, Gustavus H., Indianapolis, Ind. Head-block for saw-mills	276,321	Apr. 24	1876	521	23	1570
Zschech, Gustavus H., Indianapolis, Ind. Belt-tightener	284,703	Sept. 11	671	189	24	1094
Zschech, Gustavus H., Indianapolis, Ind. Shaft-coupling	284,704	Sept. 11	672	189	24	1094
Zweiffel, Heinrich, Kalk, near Cologne, Germany. Lubricator	290,382	Dec. 18	1256	352	25	1194
Zweighaft, Simon. (See Buschor and Zweighaft.)						
Zwiebel, Anton, Burlington, Wis. Horizontal windmill	274,541	Mar. 27	1693	470	23	1147

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Name, residence, and design.	No.	Date.	Official Gazette. Volume.	Page.
Abbott, Theodore, assignor to J. C. Graham, Philadelphia, Pa. Fringe	13,889 to 13,890	May 8	23	1736
Ahn, Robert H., San Francisco, Cal. Bracelet	14,438	Nov. 27	25	789
Allen & Co. (See Moniot, Achille, assignor.)				
Allen & Co., Samuel. (See Moniot, Achille, assignor.)				
Allen, Frank, Worcester, Mass. Carpet	14,114	July 24	24	305
Allen, Frank, assignor to M. J. Whittall, Worcester, Mass. Carpet	13,733 to 13,735	Mar. 20	23	1035
Allen, Frank, assignor to M. J. Whittall, Worcester, Mass. Carpet	14,110 to 14,113	July 24	24	305
Alpaugh, Spencer M. (See Barlow and Alpaugh.)				
Angell, David D. (See Crosley, James, assignor.)				
Ansonia Brass and Copper Company. (See Hull, Wolcott A., assignor.)				
Ansonia Clock Company. (See Davies, Walter D., assignor.)				
Arnold, Craig R., Philadelphia, Pa. Engine-frame	14,404	Nov. 13	25	604
Bailey, Leonard, Hartford, Conn. Hand-wheel	13,621	Feb. 20	23	633
Baker, Charles F., *et al.* (See Wilbur, George E., assignor.)				
Ball, Edmund B. (See Ball, Frank C. and E. B.)				
Ball, Frank C. and E. B., Buffalo, N. Y. Casing for glass oil-cans	13,806	Mar. 27	23	1125
Ballou, Walter, North Attleborough, Mass. Ornamental chain	13,714	Mar. 13	23	941
Barkentin, George S., assignor to P. & F. Corbin, New Britain, Conn. Ornamental panels on articles of builders' hardware	13,568	Feb. 6	23	439
Barlow, James, and S. M. Alpaugh, assignors to said Alpaugh and F. A. Magowan, Trenton, N. J. Earthenware vessel	14,388	Nov. 6	25	506
Barlow, Noah. (See Kerr, David B., assignor.)				
Barnes, Howard C. (See Randall, William W., assignor.)				
Barnhart, Alson E., *et al.* (See Heyer, Charles E., assignor.)				
Barnhart, Arthur M., *et al.* (See Heyer, Charles E., assignor.)				
Barraclough, Horatio. (See Woodhead, Frank A., assignor.)				
Bartel, Rudolph, Jersey City, N. J. Glove	14,352	Oct. 23	25	293
Barton, Robert. (See Searle, Thomas A., assignor.)				
Barton, William E., East Hampton, Conn. Sleigh-bell	14,236	Aug. 28	24	801
Barton, William E., East Hampton, Conn. Bell	14,263	Sept. 11	24	997
Bascom, H. Clay, Troy, N. Y. Heating-stove	14,486 to 14,487	Dec. 18	25	1081
Bascom, H. Clay, assignor to N. S. Vedder Pattern Works, Bascom, Galbraith & Co., Troy, N. Y. Cooking-stove	14,488	Dec. 18	25	1061
Bascom, H. Clay, and C. A. Hodges, assignors to N. S. Vedder Pattern Works, Bascom, Galbraith, & Co., Troy, N. Y. Parlor-stove	14,489	Dec. 18	25	1061
Bascom, H. Clay, and C. A. Hodges, assignors to N. S. Vedder Pattern Works, Bascom, Galbraith, & Co., Troy, N. Y. Cooking-stove	14,490 to 14,491	Dec. 18	25	1061
Bascom, H. Clay, and C. A. Hodges, assignors to N. S. Vedder Pattern Works, Bascom, Galbraith, & Co., Troy, N. Y. Globe stove	14,492	Dec. 18	25	1061
Bascom, H. Clay, and C. A. Hodges, assignors to Swett, Quimby & Perry, Troy, N. Y. Cooking-stove.	13,607	Feb. 13	23	543
Bascom, H. Clay, C. A. Hodges, Troy, and T. S. Heister, Lansingburg, assignors to N. S. Vedder Pattern Works, Bascom, Galbraith & Co., Troy, N. Y. Stove	13,514	Jan. 9	23	95
Bascom, H. Clay, C. A. Hodges, Troy, and T. S. Heister, Lansingburg, assignors to N. S. Vedder Pattern Works, Bascom, Galbraith & Co., Troy, N. Y. Coal-stove	13,917	May 22	23	1929
Bascom, H. Clay, Troy, and T. S. Heister, Lansingburg, assignors to Simonds Manufacturing Company, New York, N. Y. Fire-place heater	13,608	Feb. 13	23	543
Bascom, H. Clay, Troy, and T. S. Heister, Lansingburg, assignors to S. S. Jewett & Co., Buffalo, N. Y. Heating-stove	13,918	May 22	23	1929
Bascom, H. Clay, Troy, and T. S. Heister, Lansingburg, assignors to Simonds Manufacturing Company, New York, N. Y. Cooking-range	13,972	June 12	23	2242
Bascom, H. Clay, and F. Ritchie, assignors to N. S. Vedder Pattern Works, Bascom, Galbraith & Co., Troy, N. Y. Stove	13,513	Jan. 9	23	95
Bascom, H. Clay, and F. Ritchie, assignors to N. S. Vedder Pattern Works, Bascom, Galbraith & Co., Troy, N. Y. Parlor-stove	13,920	May 22	23	1930
Bascom, H. Clay, and F. Ritchie, Troy, N. Y., assignors to G. W. Gill, Columbus, Ohio. Stove	13,605	Feb. 13	23	543
Bascom, H. Clay, and F. Ritchie, Troy, N. Y., assignors to Bergstrom Brothers & Co., Neenah, Wis. Heating-stove	13,606	Feb. 13	23	543
Bascom, H. Clay, F. Ritchie, and C. A. Hodges, assignors to N. S. Vedder Pattern Works, Bascom, Galbraith & Co., Troy, N. Y. Heating-stove	13,919	May 22	23	1930
Bassett, William R., assignor to Sacks & Brother, New York, N. Y. Fringe	14,014	July 3	24	1
Bassett, William R., assignor to Sacks & Brother, New York, N. Y. Curtain-loop	14,015	July 3	24	1
Bates, William R., Flint, Mich. Lamp, gas, and electric-light globe or shade	14,264	Sept. 11	24	997
Bawden, John, *et al.* (See Read, Joseph A., assignor.)				
Bawden, John H., *et al.* (See Read, Joseph A., assignor.)				
Beaumont, Albert, assignor to W. Whitaker & Sons, Philadelphia, Pa. Carpet	14,249 to 14,251	Sept. 4	24	903
Beck, August, New York, N. Y. Skirt or other garment	13,865	Apr. 24	23	1531
Beck, August, New York, N. Y. Quilted lining	14,237	Aug. 28	24	801
Bellman, William, Harrisburg, Pa. Advertising-clock	14,090	July 17	24	207
Bend, Frederick, Brooklyn, assignor to Buchanan & Lyall, New York, Y. Y. Carpet	14,134 to 14,135	July 31	24	393
Benedikt, Ferdinand A., assignor to P. Benedikt and M. Friedman, New York, N. Y. Article of crockery	14,136	July 31	24	393

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Benedikt, Paul, *et al.* (See Benedikt, Ferdinand A., assignor.)				
Benjamin, Amedee J., Valley Falls, R. I. Hand screw or clamp	13,690	Mar. 6	23	834
Bennett, Ernest H., East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,288	Sept. 18	24	1093
Berg, Hart O., New York, N. Y. Comb and brush box	14,000	June 26	23	2415
Bergstrom Brothers & Co. (See Bascom and Ritchie, assignors.)				
Bergstrom Brothers & Co. (See Bergstrom, George O., assignor.)				
Bergstrom, George O., assignor to Bergstrom Brothers & Co., Neenah, Wis. Stove	13,899	May 15	23	1835
Berry, Henry, assignor to Derby Silver Company, Birmingham, Conn. Caster-cruet	13,691	Mar. 6	23	834
Berry, Henry, and K. A. Hathaway, Birmingham, Conn. Butter-dish	14,321	Dec. 25	25	1194
Berry, Henry, and K. A. Hathaway, Birmingham, Conn. Tea-pot	14,322	Dec. 25	25	1194
Berry, Henry, and K. A. Hathaway, Birmingham, Conn. Caster	14,323	Dec. 25	25	1194
Berry, Henry, and K. A. Hathaway, Birmingham, Conn. Lamp	14,324	Dec. 25	25	1194
Berry, Henry, and K. A. Hathaway, Birmingham, Conn. Cake or fruit dish	14,325	Dec. 25	25	1194
Berry, Henry, and K. A. Hathaway, Birmingham, Conn. Pitcher	14,326	Dec. 25	25	1194
Bigelow Carpet Company. (See Halliday, Arthur L., assignor.)				
Bigelow Carpet Company. (See Magee, Charles, assignor.)				
Bigelow Carpet Company. (See McCallum, William, assignor.)				
Bigelow Carpet Company. (See Neil, John, assignor.)				
Bigelow Carpet Company. (See Spring, John, assignor.)				
Blackwell, Garrett B. (See Reed, Charles S., assignor.)				
Bosshardt, Henry, assignor to the Kursheedt Manufacturing Company, New York, N. Y. Embroidery	13,538	Jan. 23	23	274
Bowen, James H., Philadelphia, Pa. Toy savings-bank	14,238	Aug. 28	24	601
Bowers, James, Newark, N. J. Corset	14,466	Dec. 11	25	963
Bradley, Daniel R., New York, N. Y. Flask and bottle	14,433	Nov. 20	25	702
Bradley & Hubbard Manufacturing Company. (See Patitz, Albert, assignor.)				
Bradley, Robert D., Baltimore, Md. Advertising-column	14,137	July 31	24	393
Brayer, Nicholas, assignor to Co-operative Foundry Company, Rochester, N. Y. Heating-stove	13,539	Jan. 23	23	274
Briggs, Warren W., assignor to S. & B. Lederer, Providence, R. I. Ornamental chain	13,715	Mar. 13	23	941
Bromley, Edward, *et al.* (See Danby, Arthur, assignor.)				
Bromley, Edward, *et al.* (See Hemming, R. Paul, assignor.)				
Bromley, Edward, *et al.* (See Petzold, Adolph, assignor.)				
Bromley, George D., *et al.* (See Righter, Charles A., assignor.)				
Bromley, James, *et al.* (See Righter, Charles A., assignor.)				
Bromley, James & George D. (See Righter, Charles A., assignor.)				
Bromley, John H., *et al.* (See Danby, Arthur, assignor.)				
Bromley, John H., *et al.* (See Hemming, R. Paul, assignor.)				
Bromley, John H., *et al.* (See Petzold, Adolph, assignor.)				
Bromley, Joseph H., *et al.* (See Danby, Arthur, assignor.)				
Bromley, Joseph H., *et al.* (See Hemming, R. Paul, assignor.)				
Bromley, Joseph H., *et al.* (See Petzold, Adolph, assignor.)				
Brooks & Son, George. (See Nuffer, Earnest G., assignor.)				
Brown, Felix, New York, N. Y. Pillow-block	14,138	July 31	24	393
Brown, Felix, New York, N. Y. Hanger	14,139	July 31	24	393
Brown, Henry R., Greeneville, Tenn. Show-case	13,521	Jan. 16	23	195
Brown, Robert H., Elk Ridge Landing, Md. Show-box for bottles	14,252 to 14,253	Sept. 4	24	903
Brownell, William H., Brooklyn, N. Y. Plaque	13,971	June 12	23	2942
Brownell, William H., Brooklyn, N. Y. Puff-box	14,016	July 3	24	1
Brownell, William H., Brooklyn, N. Y. Picture-frame and easel	14,115	July 24	24	305
Bruce, David W. (See Herriet, Julius, assignor.)				
Bruce, David W. (See Ihlenburg, Hermaß, assignor.)				
Brussels Tapestry Company. (See Jansen, Emil, assignor.)				
Buchanan & Lyall. (See Bend, Frederick, assignor.)				
Buck, Charles H., Jr., St. Louis, Mo. Stove	13,540	Jan. 23	23	274
Buermann, August, Newark, N. J. Pattern for casting bridle-bits	13,652	Feb. 27	23	743
Bullock, Milan C. (See Sweet and Bullock.)				
Burr, Brown & Co. (See Remington, John O., assignor.)				
Buschner, Carl F., New York, N. Y. Tassel for trimming	13 866	Apr. 24	23	1531
Bushee, James, Attleborough, Mass. Ornamental chain-link	14,045	July 10	24	103
Butterick Publishing Company. (See O'Hara, Catherine, assignor.)				
Butterick Publishing Company. (See Reed, John Q., assignor.)				
Butterick Publishing Company. (See Shiels, Sarah J., assignor.)				
Butterick Publishing Company. (See Tully, Louise, assignor.)				
Butterick Publishing Company. (See Turner, Mary, assignor.)				
California Jewelry Company. (See Rinn, Philip H., assignor.)				
Camp, Bushrod H. (See Camp, Wallace H., assignor.)				
Camp, Wallace H., Waterbury, Conn., assignor of one-half to B. H. Camp, Boston, Mass. Post-office lock-box door	13,992	June 19	23	2329
Candy, Thomas, Cincinnati, Ohio. Box	13,692	Mar. 6	23	834
Carpenter, Aaron E., Philadelphia, Pa. Background for printed matter	13,609	Feb. 13	23	543
Carter, John R. (See Widdifield, Elias E. and O. H., assignors.)				
Carter, Winfield S., Ashtabula, Ohio. Carpet-sweeper case	14,493	Dec. 18	25	1061
Cary, Charles J. (See Winchester, Theodore H., assignor.)				
Cary, Charles J., Baltimore, Md. Type	14,390	Nov. 6	25	506
Chadwick, Horace E., and H. P. Lester, Providence, R. I. Bracelet	14,391	Nov. 6	25	506
Chambellan, Pierre C., New York, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	14,017	July 3	24	1
Chapman Manufacturing Company. (See Dalton, Andrew, assignor.)				
Chetwynd, Joseph, East Liverpool, Ohio. China or earthenware dish	13,716	Mar. 13	23	941
Childs, Horace P., Taunton, Mass. Advertising device	13,693	Mar. 6	23	834
Christie, Frederick W. B., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,047	July 10	24	103
Christie, Frederick W. B., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,180	Aug. 21	24	707
Chubb, Thomas H., Post Mills, Vt. Fishing-reel	13,921	May 22	23	1930
Clark, Charles W., Philadelphia, Pa. Window-shade pull	13,900	May 15	23	1835
Cochran, Andrew, assignor to Hood, Bonbright & Co., Philadelphia, Pa. Carpet	13,653 to 13,660	Feb. 27	23	743
Cochran, Andrew, assignor to J. Keustner and W. S. Graham, Philadelphia, Pa. Carpet	14,424	Nov. 20	25	702

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Combs, Gilbert, *et al.* (See Read, Joseph A., assignor.)				
Condé Swits, Oswego, N. Y. Knit fabric	14,001 to 14,004	June 26	23	2415
Condé, Swits, Oswego, N. Y. Knit fabric	14,046	July 10	24	103
Condé, Swits, Oswego, N. Y. Knitted overshirt	14,239	Aug. 28	24	801
Conner, James M., New York, N. Y. Font of printing-type	13,830	Apr. 3	23	1225
Conner, James M., New York, N. Y. Font of printing-type	13,844	Apr. 10	23	1339
Conner, James M., New York, N. Y. Font of printing-type	14,389	Nov. 6	25	506
Conner, James M., New York, N. Y. Font of printing-type	14,405	Nov. 13	25	604
Cooke, Adrian, C. W. Schrieber, and J. S. Morgan, Dubuque, Iowa. Inkstand	14,425	Nov. 20	25	702
Cooke, Adrian, C. W. Schrieber, and J. S. Morgan, Dubuque, Iowa. Toilet-stand	14,426	Nov. 20	25	702
Co-operative Foundry Company. (See Brayer, Nicholas, assignor.)				
Copper, John C., Philadelphia, Pa. Upholstery-trimming	13,843	Apr. 3	23	1226
Corbin, P. & F. (See Barkentin, George S., assignor.)				
Costain, Ernest A., New York, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,467	Dec. 11	25	983
Cox, Stephen J., New York, N. Y., assignor to G. W. Stewart, Atlanta, Ga. Ornamenting bottles	14,154	Aug. 7	24	499
Cragg, Gowen H., Brooklyn, N. Y. Lady's collar-button	13,610	Feb. 13	23	543
Crane, Edward N., Newark, N. J. Harness-trimming	13,562	Jan. 30	23	347
Crane, Frederick, Newark, N. J. Harness-trimming	13,561	Jan. 30	23	347
Crear, Charles L., New York, N. Y. Thermometer-holder	14,091	July 17	24	207
Crease, Orlando, *et al.* (See Heald, Alfred, assignor.)				
Cresson, Clement, assignor to J. C. Graham, Philadelphia, Pa. Fringe	13,891	May 8	23	1736
Cresson, Clement, assignor to J. C. Graham, Philadelphia, Pa. Fringe	14,353	Oct. 23	25	293
Crosby, George S., assignor to J. Watson, Jr., Bridgeport, Conn. Toy pistol	13,974	June 12	23	2242
Crosley, James, assignor to himself and D. D. Angell, Driftwood, Pa. Hoe	14,092	July 17	24	207
Crow, Alexander, and Alexander, Jr. (See Piggott, George W., assignor.)				
Crowe, Eugene A., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,569 to 13,572	Feb. 6	23	439
Crowe, Eugene A., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,822 13,823	Mar. 27	23	1126
Crowe, Eugene A., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,929 to 13,939	May 29	23	2036
Crowe, Eugene A., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,048 to 14,058	July 10	24	103
Crowe, Eugene A., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,172 to 14,179	Aug. 21	24	707
Crowe, Eugene A., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,289 14,290	Sept. 18	24	1093
Crown Flint Glass Company. (See Kline, George, assignor.)				
Cuming, George E., St. Louis, Mo. Show-stand	13,856	Apr. 17	23	1449
Daland, Benjamin A., Philadelphia, Pa. Soap-cake	14,240	Aug. 28	24	802
Dalton, Andrew, assignor to Chapman Manufacturing Company, Meriden, Conn. Harness-trimming	14,155	Aug. 7	24	499
Danby, Arthur, assignor to Schofield, Mason & Co., Philadelphia, Pa. Carpet	13,573 to 13,575	Feb. 6	23	439
Danby, Arthur, assignor to Schofield, Mason & Co., Philadelphia, Pa. Carpet	13,611	Feb. 13	23	542
Danby, Arthur, assignor to John H., Joseph H., and E. Bromley, Philadelphia, Pa. Carpet	14,354	Oct. 23	25	293
Davenport, Henry, Philadelphia, Pa. Gimp	13,901	May 15	23	1836
Davies, Henry J., Brooklyn, N. Y. Clock-front	14,501	Dec. 25	25	1193
Davies, Walter D., Brooklyn, N. Y., assignor to Ansonia Clock Company, Ansonia, Conn. Clock-case	14,392	Nov. 6	25	506
Davis, Henry, Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,059	July 10	24	103
Davis, Theodore R., Asbury Park, N. J., assignor to Haviland & Co., New York, N. Y. Cup and saucer	13,807	Mar. 27	23	1125
Davis, Theodore R., Asbury Park, N. J., assignor to Haviland & Co., New York, N. Y. Cup and saucer	13,845	Apr. 10	23	1339
Davis, Thomas, Scranton, Pa. Bottle	13,736	Mar. 20	23	1035
Daykin, Mark R., Cleveland, Ohio. Well-curb	13,966	June 5	23	2123
De Planque, Louis, Jersey City, N. J. Panel	14,417	Nov. 13	25	604
Derby Silver Company. (See Berry, Henry, assignor.)				
Dietrich, Henry, Pittsburg, assignor to G. A. Macbeth, Allegheny City, Pa. Lamp-chimney	14,373	Oct. 30	25	398
Diolot, Sainteme, New York, N. Y. Clock dial and hands	14,162	Aug. 14	24	605
Dittenhoefer, Myer, New York, N. Y. Case for thermometers, &c	13,694 13,695	Mar. 6	23	834
Doherty, Henry, and J. Wadsworth, Paterson, N. J. Handkerchief	13,922	May 22	23	1930
Dolbey, William S., Brooklyn, N. Y. Capital letters	14,181	Aug. 21	24	707
Dornan Bros. & Co. (See Righter, Oscar, assignor.)				
Drossel, John A. H., Brooklyn, N. Y. Target	14,355	Oct. 23	25	293
Dreyfus, Bernhard, New York, N. Y. Curtain-band	13,902	May 15	23	1836
Dreyfus, Bernhard, New York, N. Y. Chenille pendant	14,265	Sept. 11	24	997
Dreyfus, Bernhard, New York, N. Y. Pendant	14,356	Oct. 23	25	293
Dreyfus Brothers. (See Otto, Charles, assignor.)				
Dreyfus, Isidor, New York, N. Y. Curtain-band	13,622	Feb. 20	23	633
Drohan, James, North Pacific Junction, Minn. Bob-sleigh knee	14,163	Aug. 14	24	605
Drummond, William W., Louisville, Ky. Ventilator or air-grate	14,132	July 24	24	305
Durgin, William B., Concord, N. H. Handle for table-ware	13,983	June 19	23	2329
Dwyer, James, Detroit, Mich. Stove	13,612	Feb. 13	23	543
Eberhard, George F., Cleveland, Ohio. Harness-bit	13,547 13,548	Jan. 30	23	347
Eberhard, George F., Cleveland, Ohio. Clip-cockeye	14,374	Oct. 30	25	398
Economic Motor Company. (See Hopkins, George M., assignor.)				
Edge, William C., Newark, N. J. Watch-chain	13,661	Feb. 27	23	743
Edge, William C., Newark, N. J. Watch-chain	13,875	May 1	23	1626
Edison Electric Light Company. (See Edison, Thomas A., assignor.)				
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescing electric lamp	13,940	May 29	23	2036
Edson, Jarvis B., Adams, Mass. Handle for a brush	14,331	Oct. 2	25	1
Egge, Conrad, Roslindale, assignor to Towle Manufacturing Company, Newburyport, Mass. Spoon-handle	13,613	Feb. 13	23	543

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Ehrenreich, Moses, New York, N. Y. Match-safe	14,153	July 31	24	394
Eldridge, Eli H. and J. H., Taunton, Mass. Coffin-plate	13,967	June 5	23	2123
Eldridge, John H. (See Eldridge, Eli H. and J. H.)				
Elmore, Adams & Co. (See Stites, John S., assignor.)				
Engel, William, assignor to A. L. Phillips & Co., New York, N. Y. Ornament for cloaks and other garments	14,005	June 26	23	2415
Estey & Co., J. (See Wagner, Albert, assignor.)				
Eustis, John P., Newark, N. J. Toilet ware or vessel	14,439	Nov. 27	25	789
Faber, Eberhard. (See Schrag, Philip, assignor.)				
Fajon, Etienne, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,623	Feb. 20	23	633
Fajon, Etienne, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,858	Apr. 17	23	1449
Fajon, Etienne, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,903	May 15	23	1836
Faller, Henry, Middle Village, assignor to J. Timmes, Brooklyn, N. Y. Gate	14,156	Aug. 7	24	499
Farmer, Little & Co. (See Jackson, William W., assignor.)				
Fechteler, Casper, *et al.* (See Haehnel, William, assignor.)				
Fechteler, Julius, *et al.* (See Haehnel, William, assignor.)				
Ferguson, Joseph, assignor to Stead & Miller, Philadelphia, Pa. Chenille rug	14,164 to 14,166	Aug. 14	24	605
Fillmann, Emil, Chicago, Ill. Molding for a picture-frame	14,375 14,376	Oct. 30	25	398
Fisher, Alfred, Heckmondwike, county of York, England. Carpet	14,440	Nov. 27	25	789
Fisher & Co., W. D. (See Mackreth, Marmaduke B., assignor.)				
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,576 to 13,578	Feb. 6	23	439
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,624	Feb. 20	23	633
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,808 13,809	Mar. 27	23	1125
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,941 to 13,947	May 29	23	2036
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,965	May 29	23	2036
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,060 to 14,065	July 10	24	103
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,182	Aug. 21	24	707
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,737 to 13,792	Mar. 20	23	1035 1036
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,183 to 14,212	Aug. 21	24	707
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,266	Sept. 11	24	997
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,343	Oct. 9	25	9
Förster, Carl, assignor to P. Korn, New York, N. Y. Chain	13,857	Apr. 17	23	1449
Foster, William F., New York, N. Y. Lacing-hook for gloves	13,846	Apr. 10	23	1339
Foster, William F., New York, N. Y. Lacing-hook	13,847	Apr. 10	23	1339
Fowler, Charles A., New York, N. Y. Breastpin	14,502	Dec. 25	25	1193
Fowler, Herbert E., New Haven, Conn. Bridle-bit	13,867	Apr. 24	23	1531
Freeman, Benjamin S., Attleborough, Mass. Bracelet-chain	14,093	July 17	24	207
French, K. Lockwood, New York, N. Y. Pitcher or other similar vessel	14,235	Aug. 21	24	707
Friedman, Morris, *et al* (See Benedikt, Ferdinand A., assignor.)				
Fries, Gaspard W., Paris, France, assignor to J., S., and S. Solomon, New York, N. Y. Cretonne	13,732	Mar. 13	23	942
Fuchs, Gustav, Chicago, Ill. Cigar-lighter	13,810	Mar. 27	23	1126
Fuchs, Gustav, Chicago, Ill. Advertising-post	14,140	July 31	24	393
Fuller & Warren Company. (See Warren, Walter P., assignor.)				
Fürl, John, Bümplitz, Berne, and J. Rubly, Wülflingen, Zurich, Switzerland. Stocking	14,018	July 3	24	1
Gabay, David A., assignor to McKesson & Robbins, New York, N. Y. Sponge-basket	13,508	Jan. 2	23	1
Gadsby, Walter J., Boston, Mass. Carpet	14,066	July 10	24	103
Gadsby, Walter J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,579	Feb. 6	23	439
Gadsby, Walter J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,793	Mar. 20	23	1036
Gadsby, Walter J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet	14,291	Sept. 18	24	1093
Garrigues, George L., New York, N. Y. Mirror-frame	13,564	Jan. 30	23	347
Gerson, Julius, New York N. Y. Autograph-sheet	13,696	Mar. 6	23	834
Gibbins, James, Springfield, Mass. Inkstand	13,948	May 29	23	2036
Giesecke, Georg, Leipsic, Saxony, Germany. Printing-type	13,831	Apr. 3	23	1225
Giesecke, George F., Leipsic, Saxony, Germany. Font of type	13,794 13,795	Mar. 20	23	1036
Gilbert, Conrad M., Philadelphia, Pa. Trimming	13,614	Feb. 13	23	543
Gill, George W. (See Bascom and Ritchie, assignors.)				
Goddard, Charles Y., Brooklyn, N. Y. Buckle	13,898	May 8	23	1736
Godshalk, E. H. (See Goldthorp, Henry, assignor.)				
Godshalk, E. H. (See Goodman, Joseph, assignor.)				
Goldsmith, Daniel, New York, N. Y. Finger-ring setting	14,468	Dec. 11	25	987
Goldthorp, Henry, assignor to E. H. Godshalk, Philadelphia, Pa. Fringe	13,509 13,510	Jan. 2	23	1
Goodman, Joseph, assignor to E. H. Godshalk, Philadelphia, Pa. Fringe	13,717	Mar. 13	23	942
Goold, John C., Albany, N. Y. Landau-sleigh	13,541	Jan. 23	23	274
Goucher, George E., Philadelphia, Pa. Fringe	13,894	May 8	23	1736
Goucher, George E., assignor to J. C. Graham, Philadelphia, Pa. Fringe	13,892 13,893	May 8	23	1736
Goucher, George E., assignor to J. C. Graham, Philadelphia, Pa. Fringe	13,895	May 8	23	1736
Gould, Robert S., East Orange, N. J. Tubing for curtain-poles	13,580	Feb. 6	23	439
Graham, John C. (See Abbott, Theodore, assignor.)				
Graham, John C. (See Cresson, Clement, assignor.)				
Graham, John C. (See Goucher, George E., assignor.)				
Graham, John C. (See McDonald, Laurence J., assignor.)				
Graham, Walter S., *et al.* (See Cochran, Andrew, assignor.)				
Gray, Lawrence B., Boston, Mass. Inkstand	13,996	June 19	23	2329
Great Western Glass Works. (See Warner, Charles H., Jr., assignor.)				
Griswold, Lewis F., assignor to C. Parker Company, Meriden, Conn. Weight for extension-lamps	13,968	June 5	23	2123
Gulden, Charles, New York, N. Y. Bottle	13,968	Apr. 24	23	1532
Gutherz, Oscar, Limoges, France. Cuspidor	13,515	Jan. 9	23	95

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Pages.
Gutherz, Oscar, Limoges, France. Top of a cuspidor	13,516	Jan. 9	23	95
Gutherz, Oscar, Limoges, France, assignor to L. Straus & Sons, New York, N. Y. Hollow, flat, and covered ware	14,213	Aug. 21	24	707
Haehnel, William, assignor to C. Palm and J. Fechteler, New York, N. Y. Ornamentation of sewing-machines	13,662	Feb. 27	23	743
Haehnel, William, assignor to C. Palm and J. Fechteler, New York, N. Y. Ornamentation of sewing-machines	13,876 to 13,879	May 1	23	1696
Haehnel, William, assignor to C. Palm, J. and C. Fechteler, New York, N. Y. Ornamentation of sewing-machines	14,334 to 14,335	Oct. 2	25	
Halliday, Arthur L., New York, N.Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.	13,997	June 19	23	2329
Halliday, Arthur L., New York, N.Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.	14,019 to 14,022	July 3	24	1
Halliday, Arthur L., New York, N. Y., assignor to Bigelow Carpet Company, Worcester, Mass. Carpet.	14,116	July 24	24	305
Halliday, Arthur L., New York, N. Y., assignor to Bigelow Carpet Company, Worcester, Mass. Carpet.	14,141	July 31	24	393
Halliday, Arthur L., Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.	14,292 to 14,294	Sept. 18	24	1093
Halliday, Arthur L., Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.	14,332 to 14,333	Oct. 2	25	1
Hanford, Robert G., Jr., Columbus, Ohio. Buckle	13,832	Apr. 3	23	1225
Hankinson, John H. (See Jackson and Hankinson.)				
Hard, Bradley A., *et al.* (See Sieckenberger, Giovanni, assignor.)				
Hard, Bradley A., New York, N. Y. Writing-paper and cards	14,067	July 10	24	103
Hart, Hubert C., Unionville, Conn. Fork	14,441	Nov. 27	25	789
Hartford Carpet Company. (See Costain, Ernest A., assignor.)				
Hartford Carpet Company. (See Davis, Henry, assignor.)				
Hartford Carpet Company. (See Folsom, James L., assignor.)				
Hartford Carpet Company. (See Heinigke, Otto, assignor.)				
Hartford Carpet Company. (See Hunt, Henry, assignor.)				
Hartford Carpet Company. (See Jacobs, Winthrop L., assignor.)				
Hartford Carpet Company. (See Meyer, Julius S., assignor.)				
Hartford Carpet Company. (See Rapp, Grant, assignor.)				
Hartman, Josephus, Philadelphia, Pa. Biscuit-cracker	13,592	Jan. 16	23	195
Haskell, Henry C., New York, N. Y. Finger-ring	14,142	July 31	24	393
Hatch, George E., assignor to Meriden Flint Glass Company, Meriden, Conn. Cut-glass article	14,117	July 24	24	305
Hathaway, Keyes A. (See Berry and Hathaway.)				
Haviland & Co. (See Davis, Theodore R., assignor.)				
Hayes, George M., Philadelphia, Pa. Card	13,697	Mar. 6	23	834
Hayes, George M., Philadelphia, Pa. Card	13,869	Apr. 24	23	1532
Haynes, Tilly, Boston, Mass. Lavatory-basin	14,023	July 3	24	1
Heald, Alfred, assignor to H. McCallum, O. Crease, and A. J. Sloan, Philadelphia, Pa. Carpet	13,561 to 13,585	Feb. 6	23	439
Heck, August. (See Reshower and Heck.)				
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,663	Feb. 27	23	743
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,811	Mar. 27	23	1126
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,214 to 14,215	Aug. 21	24	707
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,344	Oct. 9	25	97
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,347 to 14,348	Oct. 16	25	195
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,469	Dec. 11	25	983
Heintz, Lewis J., Buffalo, N. Y. Finger-ring	14,406	Nov. 13	25	604
Hefnz, Henry J., Sharpsburg, Pa. Pickle-bottle	14,254	Sept. 4	24	903
Heisey, Augustus H., Pittsburg, Pa. Glassware	13,833	Apr. 3	23	1225
Heister, Tobias S. (See Bascom and Heister.)				
Heister, Tobias S. (See Bascom, Hodges, and Heister.)				
Hemming, R. Paul, New York, N. Y. Carpet	14,068	July 10	24	103
Hemming, R. Paul, assignor to John H., Joseph H., and E. Bromley, Philadelphia, Pa. Carpet	14,357 to 14,358	Oct. 23	25	293
Hemming, R. Paul, assignor to John H., Joseph H., and E. Bromley, Philadelphia, Pa. Rug	14,377	Oct. 30	25	398
Hepner, Arnold. (See Horwitz and Hepner.)				
Herriet, Julius, assignor to D. W. Bruce, New York, N. Y. Font of printing-type	13,870	Apr. 24	23	1532
Heyer, Charles E., assignor to A. M. and A. E. Barnhart and C. E. Spindler, Chicago, Ill. Font of printing-type	13,560	Jan. 30	23	347
Heyer, Charles E., Chicago, Ill., assignor to A. M. and A. E. Barnhart, and C. E. Spindler. Font of type ornaments	14,336	Oct. 2	25	1
Heyer, Charles E., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type	14,503	Dec. 25	25	1193
Hieronymus, Carl R., New York, N. Y. Fabric	13,517 to 13,518	Jan. 9	23	93
Hieronymus, Carl R., New York, N. Y. Fabric	13,542	Jan. 23	23	274
Hieronymus, Carl R., New York, N. Y. Fabric	13,949	May 29	23	2036
Hobbs, Brockunier & Co. (See Russell, William F., assignor.)				
Hodges, Cyrus A. (See Bascom and Hodges.)				
Hodges, Cyrus A. (See Bascom, Hodges, and Heister.)				
Hodges, Cyrus A. (See Bascom, Ritchie, and Hodges.)				
Holland, S. Henry, Brooklyn, N. Y. Alphabet	14,143	July 31	24	393
Hood, Bonbright & Co. (See Cochran, Andrew, assignor.)				
Hood, Freeman W., Boston, Mass. Charge-cylinder for a revolver	13,824	Mar. 27	23	1126
Hooper, George B., Newark, N. J. Side drawer case and drawer for a sewing-machine	14,216	Aug. 21	24	707
Hopkins & Dickinson Manufacturing Company. (See Lochner, John, assignor.)				
Hopkins, George M., Brooklyn, assignor to Economic Motor Company, New York, N. Y. Engine-frame	14,024	July 3	24	1
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,625 to 13,627	Feb. 20	23	633

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,825	Mar. 27	23	1136
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,880 to 13,883	May 1	23	1636
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,217 14,218	Aug. 21	24	707
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,295 to 14,302	Sept. 18	24	1093
Horner Brothers. (See Meagher, Thomas E., assignor.)				
Horner Brothers. (See Onslow, Thomas, assignor.)				
Horner Brothers. (See Pugh, George W., assignor.)				
Horner Brothers. (See Smith, Stephen, assignor.)				
Horwitz, Julius H., and A. Hepner, New York, N. Y. Trimming	14,359	Oct. 23	25	293
Hotchkiss, Edward F., Thomaston, Conn. Wall-hook	13,698	Mar. 6	23	834
Howard & Scherrieble. (See Peet, William C., assignor.)				
Howard & Scherrieble. (See Reid, Hugh L., assignor.)				
Hoyt, William H., Stamford, Conn. Parlor ornament	14,337	Oct. 2	25	1
Hoyt, William H., Stamford, Conn. Fire-screen	14,338	Oct. 2	25	1
Huestis, Harvey, assignor to Hutchison & Huestis, Providence, R. I. Setting for jewelry	14,157	Aug. 7	24	499
Hull, Wolcott A., assignor of one-half to Ansonia Brass and Copper Company, New York, N. Y. Hanging-lamp	14,407 14,408	Nov. 13	25	604
Huppmann, Joseph, New York, N. Y. Cigarette show-card	14,322	Sept. 25	24	1180
Hutchison & Huestis. (See Huestis, Harvey, assignor.)				
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,664 13,665	Feb. 27	23	743
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,796	Mar. 20	23	1036
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,812	Mar. 27	23	1126
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,853	Apr. 10	23	1340
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,360	Oct. 23	25	293
Hunter & Son, William. (See Kerr, David B., assignor.)				
Hunter & Son, William. (See Kerr, James E., assignor.)				
Hunziker, Gaspar, Cloverdale, Cal. Wire fence	14,449	Nov. 27	25	789
Hyde, Daniel C., New York, N. Y. Stair and room corner-guard	13,797	Mar. 20	23	1036
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type	13,843	Apr. 10	23	1339
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type	13,859	Apr. 17	23	1450
Ihlenburg, Herman, Philadelphia, Pa., assignor to D. W. Bruce, New York, N. Y. Font of printing-type	13,871 to 13,873	Apr. 24	23	1532
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type	13,923	May 22	23	1930
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type	13,950	May 29	23	2036
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of type ornaments	13,951	May 29	23	2036
Irwin, William J., Springfield, Ohio. Bracket for grates	13,666	Feb. 27	23	743
Jackson, Austin F., assignor to Reed & Barton, Taunton, Mass. Handle for spoons	13,860	Apr. 17	23	1450
Jackson, Austin F., assignor to Reed & Barton, Taunton, Mass. Handle for spoons and forks	14,323	Sept. 25	24	1180
Jackson, William H. (See Osborne, Arthur, assignor.)				
Jackson, William H., and J. H. Hankinson, New York, N. Y. Fire-place back	14,378	Oct. 30	25	398
Jackson, William H., and J. H. Hankinson, New York, N. Y. Fire-place or grate	14,379	Oct. 30	25	398
Jackson, William H., and J. H. Hankinson, New York, N. Y. Fire-place back	14,462	Dec. 4	25	885
Jackson, William W., Philadelphia, Pa., assignor to Farmer Little & Co., New York, N. Y. Font of type	13,834	Apr. 3	23	1225
Jackson, William W., Philadelphia, Pa., assignor to Farmer, Little & Co., New York, N. Y. Font of printing-type	14,409	Nov. 13	25	604
Jackson, William W., assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type	13,523 13,524	Jan. 16	23	195
Jackson, William W., assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type	13,586	Feb. 6	23	439
Jackson, William W., assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type	13,849	Apr. 10	23	1339
Jackson, William W., assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type	14,255	Sept. 4	24	903
Jackson, William W., assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of script printing-type	14,340	Oct. 2	25	1
Jackson, William W., assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type	14,410	Nov. 13	25	604
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,667 to 13,672	Feb. 27	23	743
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,798 to 13,801	Mar. 20	23	1036
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,813	Mar. 27	23	1126
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,219 to 14,224	Aug. 21	24	707
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,345	Oct. 9	25	97
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,470 to 14,473	Dec. 11	25	983
Jacobs, Winthrop, East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,504 14,505	Dec. 25	25	1193
Jansen, Emil, Paterson, N. J., assignor to Brussels Tapestry Company, of New York. Handkerchief and scarf	14,339	Oct. 2	25	1
Jewett & Co., Sherman S. (See Bascom and Heister, assignors.)				
Johnson, Hans T., Chicago, Ill. Wall-pocket	14,094	July 17	24	207
Johnson, Seth W., New York, N. Y. Banner	14,256	Sept. 4	24	903

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Jones, Charles T., New York, N. Y. Glove-buttoner	14,158	Aug. 7	24	499
Justin, J. Gilbert, Syracuse, N. Y. Atomizer	13,975	June 12	23	2242
Kasschau, Jacob A. (See Kasschau, Jürgen and J. A.)				
Kasschau, Jürgen and J. A., New York, N. Y. Lamp and chandelier body	14,463	Dec. 4	25	885
Kasson, Amasa C., Milwaukee, Wis. Knife-sharpener	14,303	Sept. 18	24	1093
Kaucher, August, New York, N. Y. Square-piano case	14,118	July 24	24	305
Kayser, Charles, *et al.* (See Osthoff, Otto, assignor.)				
Kayser, William J., *et al.* (See Osthoff, Otto, assignor.)				
Kellett, William F., Chicago, Ill. Plaster center-piece	14,006 to 14,007	June 26	23	2415
Kellett, William F., Chicago, Ill. Plaster center-piece	14,257 to 14,259	Sept. 4	24	903
Kellett, William F., Chicago, Ill. Plaster center-piece	14,324 to 14,325	Sept. 25	24	1180
Kelty & Co., G. L. (See Langer, Henry, assignor.)				
Kernan, Francis, Jr., assignor to R. Wheeler, Son & Co., Utica, N. Y. Parlor-stove	14,008	June 26	23	2415
Kerr, David B., Philadelphia, Pa. Upholstery fabric	13,908	May 15	23	1636
Kerr, David B., assignor to W. Hunter & Son, Philadelphia, Pa. Two-ply upholstery	13,978	June 12	23	2242
Kerr, David B., assignor to N. Barlow, Philadelphia, Pa. Upholstery or damask	14,304	Sept. 18	24	1093
Kerr, James E., assignor to W. Hunter & Son, Philadelphia, Pa. Two-ply upholstery	13,979	June 12	23	2242
Kerr, William, Philadelphia, Pa., assignor to Van Deventer & Horne, New York, N. Y. Carpet	13,802 to 13,804	Mar. 20	23	1036
Keustner, John, *et al.* (See Cochran, Andrew, assignor.)				
Kimball Company, W. W. (See Meissner, Robert F., assignor.)				
King, George F., Swampscot, Mass. Writing-pen	14,144	July 31	24	393
Kinsley, Myron H., Niagara Falls, N. Y. Spoon or fork handle	13,835	Apr. 3	23	1225
Kline, George, assignor to Crown Flint Glass Company, Ravenna, Ohio. Lamp-chimney	14,167	Aug. 14	24	605
Korn, Philip. (See Förster, Carl, assignor.)				
Kraus & Co., L. (See Welton, Frank, assignor.)				
Kursheedt Manufacturing Company. (See Bosshardt, Henry, assignor.)				
Laird, David W., San Francisco, Cal. Masonic jewel or emblem	14,025	July 3	24	1
Lambert, Peter W., Hoboken, N. J. Satchel	14,168	Aug. 14	24	605
Landenberger, Frederik, New York, N. Y. Pompon	14,326	Sept. 25	24	1180
Landsberg, Moses G., Chicago, Ill. Bottle	13,699	Mar. 6	23	834
Langer, Henry, Brooklyn, assignor to G. L. Kelty & Co., New York, N. Y. Curtain and upholstery fabric	13,884 to 13,885	May 1	23	1636
Lawson, Joseph W., Sterling, Nebr. Plow point or share	14,095	July 17	24	207
Leach, Winslow C., Conklin Forks, N. Y. Sleigh	14,145	July 31	24	394
Leader Sewing Machine Company. (See Osborn, John H., assignor.)				
Lederer, S. & B. (See Briggs, Warren W., assignor.)				
Lederer, Sigmund L., New York, N. Y. Ornamental chain-link	13,718	Mar. 13	23	942
Leighton, William, Jr., Wheeling, W. Va. Glassware	14,443	Nov. 27	25	789
Leonard, John, assignor to S. Wimpfheimer, New York, N. Y. Fringe	14,494	Dec. 18	25	1081
Lester, Horace P. (See Chadwick and Lester.)				
Lewis, George A., Naugatuck, Conn. Overshoe	14,341	Oct. 2	25	2
Lipper, Benjamin, Philadelphia, Pa. Fringe	13,976	June 12	23	2242
Little, Andrew, New York, N. Y. Font of printing-type	13,700	Mar. 6	23	834
Littell, James H., New York, N. Y. Calendar	14,159	Aug. 7	24	499
Livermore, Charles W., Providence, R. I. Pencil-case	13,519	Jan. 9	23	95
Lochner, John, assignor to Hopkins & Dickinson Manufacturing Company, New York, N. Y. Ornamentation of builders' hardware	13,511	Jan. 2	23	2
Lockwood, James F., Philadelphia, Pa. Soap-dish	14,495	Dec. 18	25	1081
Loeb, Joseph, Philadelphia, Pa. Fringe	13,587 to 13,590	Feb. 6	23	439
Loeb, Joseph, Philadelphia, Pa. Fringe	13,701	Mar. 6	23	834
Lowell Manufacturing Company. (See Bennett, Ernest H., assignor.)				
Lowell Manufacturing Company. (See Christie, Frederick W. B., assignor.)				
Lowell Manufacturing Company. (See Crowe, Eugene A., assignor.)				
Lowell Manufacturing Company. (See Fisher, Edwin, assignor.)				
Lowell Manufacturing Company. (See Horan, Henry, assignor.)				
Lowell Manufacturing Company. (See Neil, John B., assignor.)				
Lowell Manufacturing Company. (See North, Howard, assignor.)				
Lowell Manufacturing Company. (See Poole, Edward, assignor.)				
Lowell Manufacturing Company. (See Sauer, Emil G., assignor.)				
Lowell Manufacturing Company. (See Swapp, Charles W., assignor.)				
Lucy, Anthony, San Francisco, Cal. Cake or bar soap	14,444	Nov. 27	25	789
MacKellar, Smiths & Jordan. (See Ihlenburg, Herman, assignor.)				
MacKellar, Smiths & Jordan. (See Jackson, William W., assignor.)				
Macbeth, George A. (See Dietrich, Henry, assignor.)				
Macbeth, George A., Allegheny, Pa. Lamp-chimney	14,445 to 14,446	Nov. 27	25	789
Mackinney, Herbert G., Providence, R. I. Trimming for articles of jewelry	13,836	Apr. 3	23	1225
Mackinney, Herbert G., Providence, R. I. Trimming for articles of jewelry	13,861	Apr. 17	23	1450
Mackinney, Herbert G., Providence, R. I. Gem-setting	14,225	Aug. 21	24	707
Mackreth, Marmaduke B., assignor to W. D. Fisher & Co., Attleborough Falls, Mass. Chain-swivel	14,393	Nov. 6	25	506
Maddock, Thomas, New York, N. Y. Covered dish	13,977	June 12	23	2242
Magee, Charles, Brooklyn, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	13,702	Mar. 6	23	834
Magowan, Frank A. (See Barlow and Alpaugh, assignors.)				
Manhattan Brass Company. (See White, James H., assignor.)				
Marcy, Frederick I. (See Phillips, Ansel P., assignor.)				
Marcy, Frederick I., Providence, R. I. Sleeve-button	14,241	Aug. 28	24	802
Marder, Luse & Co. (See Müller, Carl, assignor.)				
Mason, Charles E., Columbus, Ohio. Top plate for watches	14,427	Nov. 20	25	702
Mazzetti, Luigi F., New York, N. Y. Ice-cream mold	14,327	Sept. 25	24	1180
McCallum, Hugh, *et al.* (See Heald, Alfred, assignor.)				
McCallum, William, South Orange, N. J., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	13,629	Feb. 20	23	633
McCallum, William, South Orange, N. J., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	14,394	Nov. 6	25	506
McCallum, William, Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	14,267	Sept. 11	24	997
McCallum, William, Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	14,305	Sept. 18	24	1093

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
McCallum, William, Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.	14,363	Oct. 23	25	293
McCallum, William, Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.	14,395	Nov. 6	25	506
McDonald, Andrew Y., Dubuque, Iowa. Hand-wheel	13,673	Feb. 27	23	743
McDonald, Laurence J., assignor to J. C. Graham, Philadelphia, Pa. Fringe	13,615	Feb. 13	23	543
McDowell, William L., Lower Merion, Pa. Stove	13,719	Mar. 13	23	942
McKesson & Robbins. (See Gabay, David A., assignor.)				
McNair, David, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,591	Feb. 6	23	439
McNair, David, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,630	Feb. 20	23	633
McNair, David, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	14,268 to 14,270	Sept. 11	24	997
Meagher, Thomas E., assignor to Horner Brothers, Philadelphia, Pa. Carpet	13,628	Feb. 20	23	633
Meagher, Thomas E., assignor to Horner Brothers, Philadelphia, Pa. Carpet	13,631	Feb. 20	23	633
Meagher, Thomas E., assignor to Horner Brothers, Philadelphia, Pa. Carpet	14,119	July 24	24	305
Medlar, Alfred J., assignor to A. J. Medlar Company, (limited,) Philadelphia, Pa. Cracker or biscuit	13,909	May 15	23	1836
Medlar Company, A. J. (See Medlar, Alfred J., assignor.)				
Meissner, Robert F., assignor to W. W. Kimball Company, Chicago, Ill. Cabinet-organ case	14,069 to 14,070	July 10	24	103
Melick, Peter M., Newark, N. J. Necktie-fastener	13,886	May 1	23	1626
Melville, David G., Medford, Mass. Carpet	14,071	July 10	24	103
Melville, David G., Medford, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,862 to 13,863	Apr. 17	23	1450
Melville, David G., Medford, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	14,306	Sept. 18	24	1093
Melville, David G., Medford, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	14,361 to 14,362	Oct. 23	25	293
Melvin, David N., Linoleumville, N. Y. Steam-engine frame	14,411	Nov. 13	25	694
Meriden Britannia Company. (See Smith, William M., assignor.)				
Meriden Flint Glass Company. (See Hatch, George E., assignor.)				
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth.	13,527 to 13,537	Jan. 16	23	195
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth.	13,720 to 13,726	Mar. 13	23	942
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth.	13,910 to 13,916	May 15	23	1836
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Floor oil-cloth	14,096 to 14,099	July 17	24	907
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Floor oil-cloth	14,120 to 14,123	July 24	24	305
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Floor oil-cloth	14,227	Aug. 21	24	708
Meyer, Charles T., and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth.	14,396 to 14,401	Nov. 6	25	506
Meyer, Emil, Buffalo, N. Y. Bas-relief	13,924	May 22	23	1930
Meyer, Julius S., New York, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,674 to 13,676	Feb. 27	23	743
Meyer, Julius S., New York, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,474	Dec. 11	25	983
Meyer, Julius S., New York, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,506 to 14,507	Dec. 25	25	1193
Meyer, Victor E. (See Meyer, Charles T. and V. E.)				
Milliken, Bailey T., Paducah, Ky. Bed-spring	14,242	Aug. 28	24	802
Mills, Charles K., New York, N. Y. Advertising-blank	13,520	Jan. 9	23	95
Mitchell, Herbert, assignor to Schofield, Mason & Co., Philadelphia, Pa. Carpet	14,307	Sept. 18	24	1093
Mix, Garry I., Yalesville, Conn. Handle of a spoon	14,349	Oct. 16	25	195
Moniot, Achille, assignor to Allen & Co., Philadelphia, Pa. Two-ply upholstery	14,125	July 24	24	305
Moniot, Achille, assignor to S. Allen & Co., Philadelphia, Pa. Upholstery fabric	14,228	Aug. 21	24	708
Morgan, Joseph S. (See Cooke, Schrieber, and Morgan.)				
Morris, Edward L., Boston, Mass. Toy fulminate-exploder	13,837	Apr. 3	23	1295
Moses, John, Trenton, N. J. Dish	14,328	Sept. 25	24	1180
Muldoon, Michael, Louisville, Ky. Monumental statuary	13,727	Mar. 13	23	942
Muller, Carl, assignor to Marder, Luse & Co., Chicago, Ill. Border for printing-type	13,850	Apr. 10	23	1340
Müller, Carl, assignor to Marder, Luse & Co., Chicago, Ill. Font of printing-type	14,346	Oct. 9	25	98
Murray, John, New York, N. Y. Inkstand	13,851	Apr. 10	23	1340
Nardini, Charles, San Francisco, Cal. Vase	14,226	Aug. 21	24	708
Nathan, Clarence S., New York, N. Y. Calendar	14,026 to 14,028	July 3	24	1
Neil, John, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	13,565	Jan. 30	23	347
Neil, John, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	13,998	June 19	23	2329
Neil, John B., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,229	Aug. 21	24	708
Neil, John B., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,308	Sept. 18	24	1093
Newell Frank G., Rochester, N. Y. Mirror or picture frame	14,126	July 24	24	305
Nivois, Victor, New York, N. Y. Ornamentation of watch-cases	13,984	June 19	23	2329
Noble, Howard C., New Britain, Conn. Boot-strap	13,985	June 19	23	2329
Noble, William J., New York, N. Y. Burial-casket	13,703	Mar. 6	23	834
Noble, William J., New York, N. Y. Coffin	14,475	Dec. 11	25	983
North American Iron Works. (See Tweeddale, William, assignor.)				
North, Howard, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,309	Sept. 18	24	1094
Nuffer, Earnest G., assignor to G. Brooks & Son, Philadelphia, Pa. Tapestry or damask	14,009	June 26	23	2415
O'Brien, Joseph L., New York, N. Y. Fringe	13,632	Feb. 20	23	633
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Child's cloak	14,364	Oct. 23	25	293
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume	14,365	Oct. 23	25	293

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Child's costume	14,366	Oct. 23	25	293
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's cloak	14,367	Oct. 23	25	293
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume	14,368	Oct. 23	25	293
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's wrap	14,380	Oct. 30	25	398
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's walking-skirt	14,381	Oct. 30	25	398
O'Hara, Catherine, assignor to Butterick Publishing Company, (Limited,) New York, N. Y. Walking-skirt	14,412	Nov. 13	25	604
O'Hara, Catherine, assignor to Butterick Publishing Company, (Limited,) New York, N. Y. Lady's costume	14,413	Nov. 13	25	604
O'Hara, Catherine, assignor to Butterick Publishing Company, (Limited,) New York, N. Y. Lady's wrap	14,414	Nov. 13	25	604
O'Hara, Catherine, assignor to Butterick Publishing Company, (Limited,) New York, N. Y. Lady's polonaise	14,415 to 14,416	Nov. 13	25	604
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's walking-skirt	14,428	Nov. 20	25	702
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's wrap	14,429	Nov. 20	25	702
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's coat	14,430	Nov. 20	25	702
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's skirt	14,431	Nov. 20	25	702
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's basque	14,432	Nov. 20	25	702
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	14,447	Nov. 27	25	789
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Child's costume	14,448	Nov. 27	25	789
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's walking-skirt	14,449	Nov. 27	25	789
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's skirt	14,476	Dec. 11	25	983
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's long coat	14,477	Dec. 11	25	984
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume	14,478	Dec. 11	25	984
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's wrap	14,497	Dec. 18	25	1081
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Child's costume	14,498 to 14,499	Dec. 18	25	1082
O'Hara, Catherine, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	14,508	Dec. 25	25	1193
Oliver, Robert S. Albany, N. Y. Oil-stove	14,100	July 17	24	207
Onslow, Thomas, assignor to Horner Brothers, Philadelphia, Pa. Carpet	13,633 to 13,634	Feb. 20	23	633
Onslow, Thomas, assignor to Horner Brothers, Philadelphia, Pa. Carpet	14,124	July 24	24	305
Osborn, John H., Springfield, Mass., assignor to Leader Sewing Machine Company, Cleveland, Ohio. Sewing-machine table	14,160	Aug. 7	24	499
Osborne, Arthur, Hyde Park, Mass., assignor to W. H. Jackson, New York, N. Y. Facing for a fire-place	14,382	Oct. 30	25	398
Osborne, Arthur, Hyde Park, Mass., assignor to W. H. Jackson, New York, N. Y. Facing for a fire-place casing	14,383	Oct. 30	25	398
Osborne, Arthur, Hyde Park, Mass., assignor to W. H. Jackson, New York, N. Y. Facing for a fire-place	14,384	Oct. 30	25	398
Osborne, Arthur, Hyde Park, Mass., assignor to W. H. Jackson, New York, N. Y. Fire-place casing	14,385	Oct. 30	25	398
Osborne, Arthur, Hyde Park, Mass., assignor to W. H. Jackson, New York, N. Y. Facing for a fire-place	14,402	Nov. 6	25	506
Osthoff, Otto, assignor of two-thirds to C. and W. J. Kayser, Milwaukee, Wis. Beer-mug	14,271	Sept. 11	24	997
Otto, Charles, Brooklyn, assignor to Dreyfus Brothers, New York, N. Y. Curtain-band	14,101	July 17	24	207
Oyster, George M., Washington, D. C. Butter-print	14,102	July 17	24	207
Pairpoint, Thomas J., New Bedford, Mass. Handle for spoons, &c	14,072	July 10	24	103
Pairpoint, Thomas J., New Bedford, Mass. Handle for spoons or forks	14,127	July 24	24	305
Palm, Charles, *et al.* (See Haehnel, William, assignor.)				
Palmenberg, Joseph R., New York, N. Y. Hat and coat rack	14,310	Sept. 18	24	1094
Parker Company, Charles. (See Griswold, Lewis F., assignor.)				
Parker, Harriet A., assignor to Roxbury Carpet Company, Boston, Mass. Carpet	14,479	Dec. 11	25	984
Parsons, Samuel, *et al* (See Sieckenberger, Giovanni, assignor.)				
Parton, Henry W., assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	14,243	Aug. 28	24	802
Parton, Henry W., assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	14,311	Sept. 18	24	1094
Patitz, Albert, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Sconce-frame	14,244	Aug. 28	24	802
Patitz, Albert, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Sconce-frame	14,272	Sept. 11	24	997
Patterson & Greenough. (See Savage, Joseph G., assignor.)				
Patterson, William J., Beaver, Pa. Vase	13,525	Jan. 16	23	195
Peet, William C., Jersey City, N. J., assignor to Howard & Scherrieble, Providence, R. I. Letters or alphabet	13,677	Feb. 27	23	743
Pegel, Julius, New York, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	13,678 to 13,679	Feb. 27	23	743
Pegel, Julius, New York, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,273	Sept. 11	24	997
Perkins, William C., assignor to Wire Goods Company, Worcester, Mass. Wire handle	14,038	July 3	24	2
Petit, Eugène, Paris, France, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	13,704 to 13,709	Mar. 6	23	834
Petit, Eugène, Paris, France, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	14,073 to 14,074	July 10	24	103
Petit, Eugène, Paris, France, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	14,103 to 14,104	July 17	24	207
Petzold, Adolph, Philadelphia, Pa. Carpet	14,075	July 10	24	103

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Pages.
Petzold, Adolph, Philadelphia, Pa. Carpet	14,088	July 10	24	104
Petzold, Adolph, assignor to John H., Joseph H., and E. Bromley, Philadelphia, Pa. Carpet	14,369	Oct. 23	25	293
Petzold, Adolph, assignor to John H., Joseph H., and E. Bromley, Philadelphia, Pa. Rug	14,386 to 14,387	Oct. 30	25	398
Phillips, Ansel P., assignor to F. I. Marcy, Providence, R. I. Sleeve-button	14,260	Sept. 4	24	903
Phillips & Co., A. L. (See Engel, William, assignor.)				
Piggott, George W., New York, N. Y., assignor to A. Crow and A. Crow, Jr., Philadelphia, Pa. Carpet	14,274 to 14,275	Sept. 11	24	997
Piggott, George W., New York, N. Y., assignor to A. Crow and A. Crow, Jr., Philadelphia, Pa. Carpet	14,342	Oct. 2	25	2
Pignot, Paul, Paris, France, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	13,563	Jan. 30	23	347
Pignot, Paul, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	13,591 to 13,595	Feb. 6	23	440
Pignot, Paul, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	13,680	Feb. 27	23	743
Pignot, Paul, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	13,986 to 13,991	June 19	23	2329
Pignot, Paul, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	14,029 to 14,037	July 3	24	2
Pignot, Paul, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	14,044	July 3	24	2
Pignot, Paul, assignor to A. Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	14,105	July 17	24	907
Pirkl, John, Brooklyn, N. Y. Gate	13,635	Feb. 20	23	633
Pond, Chester H., assignor to Time Telegraph Company, New York, N. Y. Electrical conductor	14,451	Nov. 27	25	790
Pool, Joseph. (See Pool, Joshua and Joseph.)				
Pool, Joshua and J., Greensburg, Ind. Monument	13,543	Jan. 23	23	274
Poole, Edward, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,636 to 13,637	Feb. 20	23	633
Poole, Edward, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,826	Mar. 27	23	1196
Poole, Edward, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,887	May 1	23	1626
Poole, Edward, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,952 to 13,953	May 29	23	2036
Poole, Edward, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,312 to 14,316	Sept. 18	24	1094
Pope, Alfred A., Cleveland, Ohio. Harness-bit	13,549	Jan. 30	23	347
Pope, John L., Cleveland, Ohio. Whiffletree-plate	13,512	Jan. 2	23	2
Pope, John L., Cleveland, Ohio. Harness-bit	13,550 to 13,555	Jan. 30	23	347
Pope, John L., Cleveland, Ohio. Step-pad	13,638 to 13,639	Feb. 20	23	633
Pope, John L., Cleveland, Ohio. Seat-riser	14,329	Sept. 25	24	1180
Pottier & Stymus Manufacturing Company. (See Wheeler, Nathaniel, assignor.)				
Prindle, Florence L., Philadelphia, Pa. Fringe	13,805	Mar. 20	23	1036
Prindle, Gilbert H., Philadelphia, Pa. Upholstery-trimming	13,954	May 29	23	2036
Prindle, John A., Cleveland, Ohio. Paper-weight	14,146	July 31	24	394
Pugh, George W., assignor to Horner Brothers, Philadelphia, Pa. Carpet	14,128	July 24	24	305
Putnam, Salmon W., Fitchburg, Mass. Drilling-machine frame	14,276	Sept. 11	24	997
Quayle, John T., Providence, R. I. Breastpin	14,480	Dec. 11	25	984
Randall, William W., Marshfield, assignor to H. C. Barnes, Boston, Mass. Violin-box	14,419	Nov. 13	25	604
Ransom, Frances A., Palatka, Fla. Feather fan or screen	14,261	Sept. 4	24	903
Rapp, Grant, Jersey City, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	14,509	Dec. 25	25	1193
Ratcliff, Frederick, New Bedford, Mass. Support for vases or other articles	13,980	June 12	23	2242
Read, Joseph A., Philadelphia, assignor to G. Combs, J. and J. H. Bawden, Freehold, N. J. Fire-place lining	14,039	July 3	24	2
Read, Joseph A., Philadelphia, Pa., assignor to G. Combs, J. and J. H. Bawden, Freehold, N. J. Fire-place front	14,076	July 10	24	103
Read, Joseph A., Philadelphia, Pa., assignor to G. Combs, J. and J. H. Bawden, Freehold, N. J. Fire-place frame	14,169	Aug. 14	24	605
Read, Joseph A., Philadelphia, Pa., assignor to G. Combs, J. and J. H. Bawden, Freehold, N. J. Fire-place fender	14,350	Oct. 16	25	196
Reed & Barton. (See Jackson, Austin F., assignor.)				
Reed, Charles S., assignor to himself and G. B. Blackwell, Huntingburg, Ind. Flower-pot	13,896	May 8	23	1736
Reed, John Q., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Miss's kilt-plaited skirt with sash drapery	14,370	Oct. 23	25	293
Reed, John Q., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's dress-basque	14,371	Oct. 23	25	293
Reed, John Q., assignor to Butterick Publishing Company, (Limited,) New York, N. Y. Lady's costume	14,420	Nov. 13	55	604
Reed, John Q., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's polonaise	14,433	Nov. 20	25	702
Reed, John Q., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	14,452	Nov. 27	25	790
Reed, John Q., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Boy's blouse	14,453	Nov. 27	25	790
Reed, John Q., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's wrap	14,454	Nov. 27	25	790
Reed, John Q., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Miss's costume	14,481	Dec. 11	25	984
Reed, John Q., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's overskirt	14,510	Dec. 25	25	1193
Reed, John Q., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's basque	14,511	Dec. 25	25	113
Reed, William S., Leominster, Mass. Toy money-box	13,969	June 5	23	2123
Reid, Hugh L., assignor to Howard & Scherrieble, Providence, R. I. Letters or alphabet	13,681	Feb. 27	23	744
Reitz, Joseph F., Evansville, Ind. Bureau	14,317	Sept. 18	24	1094
Remington, John O., Hingham, assignor to Burr, Brown & Co., Boston, Mass. Trimming	13,544 to 13,545	Jan. 23	23	274
Remington, John O., Hingham, assignor to Burr, Brown & Co., Boston, Mass. Curtain-band	13,904	May 15	23	1836
Reshower, Joseph, and A. Heck, New York, N. Y. Pencil	13,814	Mar. 27	23	1126
Reynolds, Stanley, Rochester, N. Y. Ornamentation of burial-caskets	14,496	Dec. 18	25	1109
Reynolds, Stanley, Rochester, N. Y. Ornamentation of burial-caskets	14,527	Dec. 25	25	1194

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Righter, Charles A., assignor to J. & G. D. Bromley, Philadelphia, Pa. Carpet	13,682 to 13,688	Feb. 27	23	744
Righter, Charles A., assignor to J. and G. D. Bromley, Philadelphia, Pa. Carpet	14,277 to 14,282	Sept. 11	24	998
Righter, Oscar, assignor to Dornan Bros. & Co., Philadelphia, Pa. Carpet	13,640 to 13,644	Feb. 20	23	634
Righter, Oscar, assignor to Dornan Bros. & Co., Philadelphia, Pa. Carpet	14,283 to 14,286	Sept. 11	24	998
Ringen, John, St. Louis, Mo. Laundry-stove	13,728	Mar. 13	23	942
Rinn, Philip H., assignor to California Jewelry Company, San Francisco, Cal. Badge or emblem	13,992	June 19	23	2329
Ritchel, Charles F., Bridgeport, Conn., assignor to Unexcelled Fireworks Company, New York, N. Y. Toy pistol	13,815 13,816	Mar. 27	23	1126
Ritchie, Francis. (See Bascom and Ritchie.)				
Ritchie, Francis. (See Bascom, Ritchie, and Hodges.)				
Rogers & Bros., C. (See Sperry, Albert A., assignor.)				
Rogers, William, Hartford, assignor to Simpson, Hall, Miller & Co., Wallingford, Conn. Handle for spoons or forks	13,838	Apr. 3	23	1225
Rogers, William, Hartford, assignor to Simpson, Hall, Miller & Co., Wallingford, Conn. Handle for spoons and forks	14,245	Aug. 28	24	802
Rosenkranz, Adam, Allegheny, Pa. Steam-engine	13,616	Feb. 13	23	543
Rosenthal, Herman, New York, N. Y. Ruffling or collarette	13,617	Feb. 13	23	543
Rosenthal, Herman, New York, N. Y. Ruffling or collarette	14,040	July 3	24	2
Rosenthal, Herman, New York, N. Y. Ruffling or collarette	14,129	July 24	24	306
Rossman, Robert, New York, N. Y. Mantel-facing	13,839	Apr. 3	23	1225
Rost, Henry, Macomb, Ill. Moon-dial for clocks	14,421	Nov. 13	25	604
Roxbury Carpet Company. (See Fajon, Etienne, assignor.)				
Roxbury Carpet Company. (See Gadsby, Walter J., assignor.)				
Roxbury Carpet Company. (See McNair, David, assignor.)				
Roxbury Carpet Company. (See Melville, David G., assignor.)				
Roxbury Carpet Company. (See Parker, Harriet A., assignor.)				
Roxbury Carpet Company. (See Stearns, Thomas J., assignor.)				
Roy, Bozil S., Worcester, Mass. Card-grinding machine	13,888	May 1	23	1626
Rubly, James. (See Furi and Rubly.)				
Russell, William F., assignor to Hobbs, Brockunier & Co., Wheeling, W. Va. Glassware	13,645	Feb. 20	23	634
Sacks & Brother. (See Bassett, William R., assignor.)				
Sampson, Edward C. (See Meyer, Charles T. and V. E., assignors.)				
Sargent & Co. (See Sargent, Joseph B., assignor.)				
Sargent & Co. (See Wright, Charles L., assignor.)				
Sargent, Joseph B., assignor to Sargent & Co., New Haven, Conn. Ornamentation of hinges	13,546	Jan. 23	23	274
Sauer, Emil G., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,646	Feb. 20	23	634
Sauer, Emil G., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,318 14,319	Sept. 18	24	1094
Savage, Joseph G., Brooklyn, assignor to Patterson & Greenough, New York, N. Y. Shawl	13,864	Apr. 17	23	1450
Schmidt, Christian A. (See Steinecke, Samuel, assignor.)				
Schmidt, Christian A., New York, N. Y. Fringe	13,710	Mar. 6	23	834
Schmidt, Christian A., New York, N. Y. Fringe	13,817	Mar. 27	23	1126
Schmidt, Christian A., New York, N. Y. Fringe	13,854	Apr. 10	23	1340
Schmidtt, Christian A. (See Steinecke, Samuel, assignor.)				
Schofield, Mason & Co. (See Danby, Arthur, assignor.)				
Schofield, Mason & Co. (See Mitchell, Herbert, assignor.)				
Schrag, Philip, New York, assignor to E. Faber, Port Richmond, N. Y. Pen or pencil holder	13,618	Feb. 13	23	543
Schrieber, Charles W. (See Cooke, Schrieber, and Morgan.)				
Schumacher, William, Brooklyn, N. Y. Alto-rilievo	14,041	July 3	24	2
Searle, Thomas A., Quidnick, assignor to R. Barton, Providence, R. I. Sleeve-button back	14,106	July 17	24	207
Sherrill, Horace D., New York, N. Y. Finger-ring	13,840	Apr. 3	23	1226
Shiels, Sarah J., assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	14,512	Dec. 25	25	993
Shults & Buck. (See Shults, George J., assignor.)				
Shults, George J., assignor to Shults & Buck, Avoca, N. Y. Rocking-chair	14,230	Aug. 21	24	708
Shultz, Louis, New York, N. Y. Quilting	14,147	July 31	24	394
Sieckenberger, Giovanni, assignor of one-half to B. A. Hard and S. Parsons, New York, N. Y. Envelope	13,818	Mar. 27	23	1126
Sieckenberger, Giovanni, assignor of one-half to B. A. Hard and S. Parsons, New York, N. Y. Writing-paper	13,819	Mar. 27	23	1126
Silberman, Abbie L., New York, N. Y. Hand-bag or satchel	14,464	Dec. 4	25	1885
Simon, Abraham, New York, N. Y. Garment	13,925	May 22	23	1930
Simonds Manufacturing Company. (See Bascom and Heister, assignors.)				
Simpson, Hall, Miller & Co. (See Rogers, William, assignor.)				
Sloan, Andrew J., *et al.* (See Heald, Alfred, assignor.)				
Smith, Henry G., Providence, R. I. Ornamental chain	14,107	July 17	24	208
Smith, R. Hale, Springfield, Mass. Seal-press	13,897	May 8	23	1736
Smith & Sons Carpet Company, Alexander. (See Chambellan, Pierre C., assignor.)				
Smith & Sons Carpet Company, Alexander. (See Parton, Henry W., assignor.)				
Smith & Sons Carpet Company, Alexander. (See Petit, Eugène, assignor.)				
Smith & Sons Carpet Company, Alexander. (See Pignot, Paul, assignor.)				
Smith, Stephen, assignor to Horner Brothers, Philadelphia, Pa. Carpet	14,130 14,131	July 24	24	306
Smith, William M., assignor to Meriden Britannia Company, Meriden, Conn. Coffin-handle socket	14,422	Nov. 13	25	604
Snyder, Peter A., Jersey City, N. J. Hasp-lock case	14,434	Nov. 20	25	702
Solomon, Juda, *et al.* (See Fries, Gaspard W., assignor.)				
Solomon, Salomon, *et al.* (See Fries, Gaspard W., assignor.)				
Solomon, Simeon, *et al.* (See Fries, Gaspard W., assignor.)				
Sperry, Albert A., assignor to C. Rogers & Bros., Meriden, Conn. Spoon or fork handle	14,320	Sept. 18	24	1094
Spindler, Charles E., *et al.* (See Heyer, Charles E., assignor.)				
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	14,042	July 3	24	2
Stead & Miller. (See Ferguson, Joseph, assignor.)				
Stearns, Thomas J., Boston, Mass. Carpet	14,077	July 10	24	103
Stearns, Thomas J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,566	Jan. 30	23	347

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Stearns, Thomas J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,647 to 13,648	Feb. 20	23	634
Stearns, Thomas J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet	13,827	Mar. 27	23	1126
Stearns, Thomas J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet	14,287	Sept. 18	24	998
Steinecke, Samuel, Brooklyn, assignor to C. A. Schmidt, New York, N. Y. Curtain-band	13,711	Mar. 6	23	834
Steinecke, Samuel, Brooklyn, assignor to C. A. Schmidtt, New York, N. Y. Fringe	13,841	Apr. 3	23	1226
Stephens, Deloss H., Riverton, Conn. Desk-rule	14,043	July 3	24	2
Stewart, George W. (See Cox, Stephen J., assignor.)				
Stinard, William H., Syracuse, N. Y. Confection	14,010	June 26	23	2415
Stites, John S., Brooklyn, assignor to Elmore, Adams & Co., New York, N. Y. Bottle-stopper	14,330	Sept. 25	24	1180
St. John, James A., St. Louis, Mo. Type	13,556 to 13,557	Jan. 30	23	347
St. John, James A., St. Louis, Mo. Type	13,729	Mar. 13	23	942
St. John, James A., St. Louis, Mo. Movable type	14,011	June 26	23	2415
Straus & Sons, L. (See Gutherz, Oscar, assignor.)				
Swapp, Charles W., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,596 to 13,602	Feb. 6	23	440
Swapp, Charles W., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,649 to 13,650	Feb. 20	23	634
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,828 to 13,829	Mar. 27	23	1126
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	13,955 to 13,964	May 29	23	2036
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,078 to 14,087	July 10	24	104
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,231 to 14,233	Aug. 21	24	708
Sweet & Clark Manufacturing Company. (See Sweet, Miles, assignor.)				
Sweet, John E., Syracuse, N. Y., and M. C. Bullock, Chicago, Ill. Upright steam-engine	13,842	Apr. 3	23	1226
Sweet, Miles, assignor to Sweet & Clark Manufacturing Company, Troy, N. Y. Curry-comb back-handle	14,108	July 17	24	908
Swett, Quimby & Perry. (See Bascom and Hodges, assignors.)				
Taylor, Thomas M., Mount Vernon, N. Y. Burial-casket	13,970	June 5	23	2123
Theuerner, Christopher J., Newark, N. J. Finger-ring	14,351	Oct. 16	25	196
Thomas, Wilber, Quincy, Ill. Fence-picket	13,926	May 22	23	1930
Thorp, Henry H., assignor to H. H. Thorp Manufacturing Company, Cleveland, Ohio. Printing-type	13,651	Feb. 20	23	634
Thorp, Henry H., assignor to H. H. Thorp Manufacturing Company, Cleveland, Ohio. Printing-type ornaments	13,993	June 19	23	2329
Thorp, Henry H., assignor to H. H. Thorp Manufacturing Company, Cleveland, Ohio. Printing-type	14,148 to 14,151	July 31	24	394
Thorp Manufacturing Company, H. H. (See Thorp, Henry H., assignor.)				
Tibbe, Henry, Washington, Mo. Smoking-pipe	13,999	June 19	23	2329
Time Telegraph Company. (See Pond, Chester H., assignor.)				
Timmes, John. (See Faller, Henry, assignor.)				
Toaspern, Herman, Jr., Brooklyn, N. Y. Calendar-card	14,465	Dec. 4	25	1885
Towle Manufacturing Company. (See Egge, Conrad, assignor.)				
Traitel, Benjamin D., New York, N. Y. Finger-ring	13,852	Apr. 10	23	1340
Traitel, Benjamin D., New York, N. Y. Finger-ring	14,247	Aug. 28	24	802
Triebel, Theodore, Glastonbury, Conn. Handle for spoons and forks	14,262	Sept. 4	24	903
Tuffley, Edward W., Brooklyn, N. Y. Jewelry	14,012	June 26	23	2415
Tully, Louise, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume	14,457	Nov. 27	25	790
Tully, Louise, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's basque	14,460	Nov. 27	25	790
Tully, Louise, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's walking-skirt	14,500	Dec. 18	25	1082
Tully, Louise, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Miss's walking-skirt	14,514	Dec. 25	25	1194
Tully, Louise, assignor to Butterick Publishing Company, (limited.) New York, N. Y. Miss's princess costume	14,515	Dec. 25	25	1194
Turner, George W., Boston, Mass. Musical-instrument case	13,603	Feb. 6	23	440
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Child's coat	14,455	Nov. 27	25	790
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Baby's creeping-apron	14,456	Nov. 27	25	790
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume	14,458	Nov. 27	25	790
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's double-breasted jacket	14,459	Nov. 27	25	790
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's wrap	14,461	Nov. 27	25	790
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's wattean wrapper	14,482	Dec. 11	25	984
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Girl's costume	14,513	Dec. 25	25	1194
Turner, Samuel H., Metropolis, Ill. Bed-spring	13,820	Mar. 27	23	1126
Tweeddale, William, Brooklyn, assignor to North American Iron Works, New York, N. Y. Vase	13,619	Feb. 13	23	543
Unexcelled Fireworks Company. (See Ritchel, Charles F., assignor.)				
Untermeyer, Henry, New York, N. Y. Chain	13,558	Jan. 30	23	347
Untermeyer, Henry, New York, N. Y. Jewelry	13,730 to 13,731	Mar. 13	23	942
Untermeyer, Henry, New York, N. Y. Jewelry	13,874	Apr. 24	23	1532
Valentine, Lucy W., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	14,321	Sept. 18	24	1094
Van Deventer & Horne. (See Kerr, William, assignor.)				
Van Eps, Henry R., Peoria, Ill. Flower-pot bracket	13,905	May 15	23	1836
Van Eps, Henry R., Peoria, Ill. Flower-stand	13,906	May 15	23	1836
Van Houton, John B., Newark, N. J. Ear-ring and pendant	14,516 to 14,520	Dec. 25	25	1194

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Vedder Pattern Works, Bascom, Galbraith & Co., N. S. (See Bascom, H. Clay, assignor.)				
Vedder Pattern Works, Bascom, Galbraith & Co., N. S. (See Bascom and Hodges, assignors.)				
Vedder Pattern Works, Bascom, Galbraith & Co., N. S. (See Bascom, Hodges, and Heister, assignors.)				
Vedder Pattern Works, Bascom, Galbraith & Co., N. S. (See Bascom and Ritchie, assignors.)				
Vedder Pattern Works, Bascom, Galbraith & Co., N. S. (See Bascom, Ritchie, and Hodges, assignors.)				
Vogt, Gustav, Limoges, France. Cuspidor	14,483	Dec. 11	25	984
Wadsworth, Joseph. (See Doherty and Wadsworth.)				
Wagner, Albert, New York, N. Y., assignor to J. Estey & Co., Brattleborough, Vt. Organ-case	14,484	Dec. 11	25	984
Waldron, Charles F., Boston, Mass. Harness-trimming	13,559	Jan. 30	23	347
Walker, William E., *et al.* (See Wilbur, George E., assignor.)				
Wallace, Frank A., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon or fork handle	13,927	May 22	23	1930
Wallace & Sons Manufacturing Company, R. (See Wallace, Frank A., assignor.)				
Wallace & Son Manufacturing Company, R. (See Waterhouse, Frederick, assignor.)				
Wallach, Isidor, New York, N. Y. Satchel	13,994	June 19	23	2399
Warner, Charles H., Jr., assignor to Great Western Glass Works, St. Louis, Mo. Glass flask	13,526	Jan. 16	23	195
Warner, Hulbert H., Rochester, N. Y. Bottle	14,435	Nov. 20	25	702
Warren, Walter P., assignor to Fuller & Warren Company, Troy, N. Y. Stove	13,604	Feb. 6	23	440
Warren, William R., West Upton, Mass. Lady's hat	13,891	Mar. 27	23	1196
Waterhouse, Frederick, assignor to R. Wallace & Son Manufacturing Company, Wallingford, Conn. Spoon or fork handle	13,981	June 12	23	2242
Watkinson, George, New Haven, Conn. Ornamentation of overshoes	14,372	Oct. 23	25	294
Watson, George E., Bannack City, Mont. Ter. Sleigh	14,109	July 17	24	208
Watson, James, Jr. (See Crosby, George S., assignor.)				
Welton, Frank, assignor to L. Kraus & Co., Birmingham, Conn. Corset	13,620	Feb. 13	23	544
Wentworth, David, assignor to Wentworth Spring and Axle Company, Gardiner, Me. Axle-nut	14,089	July 10	24	104
Wentworth Spring and Axle Company. (See Wentworth, David, assignor.)				
Wheeler, Nathaniel, Bridgeport, Conn. Railway-car	13,712	Mar. 6	23	834
Wheeler, Nathaniel, Bridgeport, Conn., assignor to Pottier & Stymus Manufacturing Company, New York, N. Y. Arm-chair	13,713	Mar. 6	23	834
Wheeler, Son & Co., Russell. (See Kernan, Francis, Jr., assignor.)				
Whitacre, Thomas W., Wellsville, Ohio. Irregular mallet	14,246	Aug. 28	24	802
Whitaker & Sons, William. (See Beaumont, Albert, assignor.)				
White, James H., assignor to Manhattan Brass Company, New York, N. Y. Fender	13,907	May 15	23	1836
White, James H., assignor to Manhattan Brass Company, New York, N. Y. Fender	14,170	Aug. 14	24	605
White, James H., assignor to Manhattan Brass Company, New York, N. Y. Fire-screen	14,171	Aug. 14	24	605
Whitlock, Daniel, Newark, N. J. Engine-frame	13,971	June 5	23	2123
Whitney, James H., Brooklyn, N. Y. Sewing-machine table	13,855	Apr. 10	23	1340
Whitney, James H., Brooklyn, N. Y. Fly-wheel for sewing-machines	14,436	Nov. 20	25	702
Whittall, Matthew J. (See Allen, Frank, assignor.)				
Widdifield, Elias E. and O. H., assignors of one-half to J. R. Carter, Toronto, Ontario, Canada. Mat	14,133	July 24	24	306
Widdifield, Olive H. (See Widdifield, Elias E. and O. H.)				
Wilbur, George E., assignor to himself, W. E. Walker, and C. F. Baker, Taunton, Mass. Cooking-stove	13,928	May 22	23	1930
Wilkins, Daniel W., Boston, Mass. Banner lamp-shade stand	14,152	July 31	24	394
Willets, Daniel, Brooklyn, N. Y. Vegetable-dish	13,995	June 19	23	2329
Wilson, Frank B., New York, N. Y. Bottle-coaster	14,437	Nov. 20	25	702
Wimpfheimer, Sophie. (See Leonard, John, assignor.)				
Winchell, George D., Cincinnati, Ohio. Toilet-vessel	13,689	Feb. 27	23	744
Winchester, Theodore H., assignor to C. J. Cary, Baltimore, Md. Type	14,403	Nov. 6	25	506
Wire Goods Company. (See Perkins, William C., assignor.)				
Wood, Bishop & Co. (See Wood, Henry A., assignor.)				
Wood, Charles F., Summit, N. J. Letter for jewelry	14,248	Aug. 28	24	802
Wood, Charles F., Summit, N. J. Letter in jewelry	14,485	Dec. 11	25	984
Wood, Henry A., assignor to Wood, Bishop & Co., Bangor, Me. Stove	14,161	Aug. 7	24	499
Woodhead, Frank A., assignor to H. Barraclough, Philadelphia, Pa. Woven shawl	14,234	Aug. 21	24	708
Wright, Charles A., Philadelphia, Pa. Card	13,567	Jan. 30	23	347
Wright, Charles L., assignor to Sargent & Co., New Haven, Conn. Coffin-plate	14,013	June 26	23	2415

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Name, residence, and title.	No.	Date.	Official Gazette. Volume.	Page.
Adams, Taylor & Co., Boston, Mass. Gin	10,030	Feb. 13	23	544
Agostini, Joseph, New York, N. Y. Lard	10,655	Oct. 23	25	294
Albertson, William R., Worcester, Mass. Burnishing ink or blacking for boots and shoes	10,332	June 5	23	2124
Albertson, William R., Worcester, Mass. Burnishing ink or blacking for boots and shoes	10,333	June 5	23	2124
Albertson, William R., Worcester, Mass. Burnishing ink or blacking for boots and shoes	10,334	June 5	23	2124
Albertson, William R., Worcester, Mass. Burnishing ink or blacking for the shanks and edges of boot or shoe soles	10,335	June 5	23	2124
Allen, Charles W., Chicago, Ill. Plug chewing-tobacco	10,421	July 17	24	208
Allen, Charles W., Chicago, Ill. Smoking and chewing tobacco	10,475	July 31	24	394
Allen & Hanburys, London, England. Medicinal specific for neuralgia	10,342	June 12	23	2242
Allen, Stephen W., and J. E. Duaming, Paterson, N. J. Cigars and tobacco	10,175	Apr. 10	23	1340
Am Ende, Charles G., Hoboken, N. J. Wound-dressings	10,145	Mar. 27	23	1126
Am Ende, Charles G., Hoboken, N. J. Chemical preservatives for animal and vegetable substances	10,607	Oct. 2	25	2
Am Ende, Charles G., Hoboken, N. J. Preservative for animal and vegetable substances	10,647	Oct. 23	25	294
American Chemical Company, Syracuse, N. Y. Wood-alcohol	10,117	Mar. 13	23	942
American Eagle Tobacco Company, Detroit, Mich. Cut smoking and chewing tobaccos	10,778	Dec. 18	25	1062
American Eagle Tobacco Company, Detroit, Mich. Cut smoking and chewing tobaccos and cigars and cigarettes	10,779	Dec. 18	25	1062
American Eagle Tobacco Company, Detroit, Mich. Cut smoking and chewing tobaccos and cigars and cigarettes	10,780	Dec. 18	25	1062
American Eagle Tobacco Company, Detroit, Mich. Cut smoking-tobacco and cigars and cigarettes	10,803	Dec. 25	25	1194
American Zylonite Company, New York, N. Y. Zylonite Ivory	10,564	Sept. 4	24	903
Ames & Sons, Oliver, North Easton, Mass. Spades, shovels, and scoops	10,620	Oct. 9	25	98
Amos & Sons, Jacob, Syracuse and Baldwinsville, N. Y. Flour	10,080	Mar. 6	23	834
Amos & Sons, Jacob, Syracuse and Baldwinsville, N. Y. Flour	10,081	Mar. 6	23	834
Amos & Sons, Jacob, Syracuse and Baldwinsville, N. Y. Flour	10,082	Mar. 6	23	834
Amos & Sons, Jacob, Syracuse and Baldwinsville, N. Y. Flour	10,083	Mar. 6	23	834
Amos & Sons, Jacob, Syracuse and Baldwinsville, N. Y. Flour	10,084	Mar. 6	23	834
Amos & Sons, Jacob, Syracuse and Baldwinsville, N. Y. Flour	10,133	Mar. 27	23	1126
Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece-goods	10,185	Apr. 17	23	1450
Amthor, Robert, Baltimore, Md. Remedy for diphtheria	10,804	Dec. 25	25	1194
Anderson, Robert W., London, county of Middlesex, England. Extract of meat	10,571	Sept. 4	24	904
Andreae, Peter A., Brooklyn, N. Y. Medical compound for diseases of the skin	10,067	Feb. 27	23	744
Andura, Auguste V., Blaye, France. Liquors and cordials	10,675	Oct. 30	25	398
Angell, Jonathan W., San Francisco, Cal. Liver-pills	10,015	Feb. 6	23	440
Ansar, Harford & Co., London, county of Middlesex, England. Cod-liver oil	9,983	Jan. 30	23	348
Ansonia Brass and Copper Company, Ansonia, Conn., and New York, N. Y. Refined copper ingots, plates, cakes, or bars	10,180	Apr. 10	23	1340
Ansonia Brass and Copper Company, Ansonia, Conn., and New York, N. Y. Refined copper ingots, plates, cakes, or bars	10,181	Apr. 10	23	1340
Ansonia Brass and Copper Company, Ansonia, Conn., and New York, N. Y. Insulated electric conductors	10,720	Nov. 20	25	702
Appleton Company, Lowell, Mass. Cotton drillings and other cotton goods	10,155	Apr. 10	23	1340
Appleton Company, Lowell, Mass. Cotton sheetings, shirtings, and other cotton goods	10,156	Apr. 10	23	1340
Arguimbau, Daniel V., Brooklyn, N. Y. Licorice-paste	10,109	Mar. 13	23	942
Arguimbau, Daniel V., Brooklyn, N. Y. Licorice-paste in sticks	10,110	Mar. 13	23	942
Arguimbau, Daniel V., Brooklyn, N. Y. Licorice-paste	10,111	Mar. 13	23	942
Arnould & Heidelberger, Ch., Rheims, France. Champagne-wine	10,447	July 17	24	208
Ascheuer, Friederick, New York, N. Y. Razors	10,665	Oct. 23	25	294
Ausable Horse Nail Company, New York, N. Y. Horseshoe-nails	10,676	Oct. 30	25	398
Austin, Nichols & Co., New York, N. Y. Cigars	10,685	Oct. 30	25	398
Ayer Company, J. C., Lowell, Mass. Certain medical preparations	10,556	Aug. 28	24	802
Ayer Company, J. C., Lowell, Mass. Pills	10,557	Aug. 28	24	802
Ayer Company, J. C., Lowell, Mass. Vegetable Sicilian hair-renewer	10,558	Aug. 28	24	802
Ayer Company, J. C., Lowell, Mass. Proprietary medicines for malarial diseases	10,691	Nov. 6	25	506
Ayer Company, J. C., Lowell, Mass. Preparation for the hair	10,692	Nov. 6	25	506
Ayer Company, J. C., Lowell, Mass. Proprietary medicines for affections of the lungs and throat	10,693	Nov. 6	25	506
Ayer Company, J. C., Lowell, Mass. Proprietary medicines containing sarsaparilla	10,694	Nov. 6	25	506
Ayer Company, J. C., Lowell, Mass. Proprietary medicines in the form of pills	10,698	Nov. 6	25	506
Babcock, Linn B., St. Louis, Mo. Smoking, plug, and fine-cut tobacco	10,816	Dec. 25	25	1194
Babcock Printing Press Manufacturing Company, New London, Conn. Printing-presses	10,205	Apr. 24	23	1532
Bagnall & Loud, Boston, Mass. Tackle or pulley blocks	10,648	Oct. 23	25	294
Baker & Co., Thomas, New York, N. Y. Boiler-cleaning compound	9,984	Jan. 30	23	348
Baker, George J., Hornsey, county of Middlesex, England. Certain electric medical appliances	10,413	July 10	24	104
Baker, George W., Aberdeen, Md. Canned goods	10,752	Dec. 4	25	885
Baker, James M., Saltilloville, Ind. Certain medical compound	10,707	Nov. 13	25	604
Bances, Juan A. (See Morris, Henry M., assignor.)				
Barber, Amzi L., Washington, D. C. Asphalt pavements	10,545	Aug. 28	24	802
Barbour & Hamilton, Washington, D. C. Flour	10,364	June 26	23	2415
Barbour & Hamilton, Washington, D. C. Flour	10,565	Sept. 4	24	903
Barnes, Cora F., Brooklyn, N. Y. Remedy for catarrh	10,406	July 10	24	104
Barnes, Cora F., Brooklyn, N. Y. Liniment	10,407	July 10	24	104
Barnes, Cora F., Brooklyn, N. Y. Certain vegetable preparation to promote digestion in infants and children	10,414	July 10	24	104
Barnett, James P., Brooklyn, N. Y. Remedies containing cresylic or carbolic acid for diseases of animals	10,343	June 12	23	2242
Barr & Co., Thomas T., New York, N. Y Formosa oolong teas	10,369	June 26	23	2416
Bartlett, Henry A., Philadelphia, Pa. Stove-polish	10,216	Apr. 24	23	1532
Beadleston & Woerz, New York, N. Y. Ale, porter, and lager-beer	9,928	Jan. 2	23	2
Beck, Gustav L., Milwaukee, Wis. Medicinal preparations	10,260	May 8	23	1736
Bellak, James, Philadelphia, Pa. Reed-organs	9,967	Jan. 16	23	196

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Pags.
Bellak, James, Philadelphia, Pa. Reed-organs	10,061	Feb. 20	23	634
Bellak, James, Philadelphia, Pa. Reed-organs	10,062	Feb. 20	23	634
Belmont & Son, S., Kansas City, Mo. Cigars, cigarettes, smoking and chewing tobacco, and snuff	10,318	May 29	23	2036
Benjamin & Son, O. C., Orange, N. J. Cosmetic	10,336	June 5	23	2124
Benk Manufacturing Company, New York, N. Y. Washing-powder	10,252	May 8	23	1736
Berbenich, Henry, New York, N. Y. Medicine for neuralgia, rheumatism, gout, and kindred diseases	10,699	Nov. 6	25	506
Berger, Frederick F., Carlyle, Ill. Proprietary medicines	10,478	Aug. 7	24	499
Berger, Jules, Marseilles, France. Certain table-liquors	10,445	July 17	24	208
Berry Bros., Liberty, Va. Plug-tobacco	10,524	Aug. 21	24	708
Berry Bros., Liberty, Va. Chewing and smoking tobacco	10,677	Oct. 30	25	398
Best Brewing Company, Phillip, Milwaukee, Wis. Bottled beer	10,258	May 8	23	1736
Bewley & Draper, (limited,) Dublin, Ireland. Ginger-ale	10,304	May 29	23	3036
Bewley & Draper, (limited,) Dublin, Ireland. Ginger-ale	10,305	May 29	23	2036
Bewley & Draper, (limited,) Dublin, Ireland. Ginger-ale	10,306	May 29	23	2036
Bible, George W., Philadelphia, Pa. Medicine for nervous and other diseases	10,319	May 29	23	2036
Billington, J. W., Bryan, Tex. Liniment	10,146	Mar. 27	23	1126
Birdseye & Co., I. W., Bridgeport, Conn. Corsets	10,186	Apr. 17	23	1450
Birdseye & Co., I. W., Bridgeport, Conn. Corsets	10,187	Apr. 17	23	1450
Bittel, Tepel & Eilers, New York, N. Y. Calf-skins, calf-kids, and goat-kid skins	10,263	May 15	23	1836
Blanchet Frères et Kléber, Rives, France. Writing-paper	10,415	July 10	24	104
Blanchet Frères et Kléber, Rives, France. Writing-paper	10,416	July 10	24	104
Bliven & Carrington, New York, N. Y. Lubricating-oils	10,103	Mar. 13	23	942
Bliven & Carrington, New York, N. Y. Lubricating compound	10,223	May 1	23	1626
Bloch Brothers, Wheeling, W. Va. Cigars, cigarettes, and chewing and smoking tobacco	10,595	Sept. 25	24	1180
Bogardus, H. A. & H. D., Chicago, Ill. Buckwheat-flour	10,287	May 22	23	1930
Bohlen & Co, Henry, Philadelphia, Pa. Gin	9,990	Jan. 2	23	2
Bollinger, J., Ay-Champagne, France. Champagne-wine	10,678	Oct. 30	25	398
Bouché, Fils, Mareuil-Sur-Ay, France. Champagne-wines	10,581	Sept. 18	24	1094
Bouché, Fils, Mareuil-Sur-Ay, France. Champagne-wines	10,582	Sept. 18	24	1094
Bouché, Fils, Mareuil-Sur-Ay, France. Champagne-wines	10,630	Oct. 16	25	196
Bow, George D., Chicago, Ill. Plug chewing-tobacco and smoking-tobacco	10,134	Mar. 27	23	1126
Bowers, James, Newark, N. J. Corsets	10,744	Nov. 27	25	790
Boyd, Jonathan, Providence, R. I. Tonic bitters	10,450	July 24	24	306
Boyle, James W., New York, N. Y. Oysters	10,708	Nov. 13	25	604
Brainard, David, New York, N. Y. Whole winter-wheat	10,753	Dec. 4	25	885
Brearley, William H., Detroit, Mich. Remedy for external and internal use	10,165	Apr. 10	23	1340
Brecht, Gustavus V., St. Louis, Mo. Cutlery	10,344	June 12	23	2242
Breinig, Revere M., Brooklyn, N. Y. Oils, pigments, varnishes, driers, primers, and the like	10,353	June 19	23	2330
Breinig, Revere M., Brooklyn, N. Y. Oil-finish	10,402	July 10	24	104
Bridgewater Wood Finishing Company, New York, N. Y. Lithogen and silicate paints, and preparations composed more or less of ground silex, as coverings for metals and wood	10,123	Mar. 20	23	1036
Brinckerhoff, Turner & Co., New York, N. Y. Cotton duck	10,016	Feb. 6	23	440
Brinckerhoff, Turner & Co., New York, N. Y. Cotton duck	10,017	Feb. 6	23	440
Brinckerhoff, Turner & Co., New York, N. Y. Cotton duck	10,018	Feb. 6	23	440
Brinckerhoff, Turner & Co., New York, N. Y. Cotton piece-goods	10,019	Feb. 6	23	440
Brooks Oil Company, Cleveland, Ohio. Lubricating-oils	10,013	Feb. 6	23	440
Brown, Andrew, Buffalo, N. Y. Lumber in logs, boards, and staves	10,417	July 10	24	104
Brown & Brothers, Waterbury, Conn. Alloys of copper in the form of sheets, tubing, hollow ware, and cartridge-shells	10,264	May 15	23	1836
Brown, Eugene L. (See Lincoln and Brown.)				
Bruno & Son, C., New York, N. Y. Wind and reed instruments, violins, and guitars	9,993	Jan. 30	23	348
Buchanan & Lyall, New York, N. Y. Manufactured and unmanufactured tobacco	9,929	Jan. 2	23	2
Bucknall & Sons, Henry, London, county of Middlesex, England. Cork-wood	10,550	Aug. 28	24	902
Buffalo Alcholene Company, Buffalo, N. Y. Refined wood-alcohol	10,130	Mar. 20	23	1036
Burke, Walker & Co., Chicago, Ill. Certain dry-goods	10,460	July 31	24	394
Burkhard, William R., St. Paul, Minn. Sporting-powder	10,787	Dec. 18	25	1082
Burnham & Co., Charles, Philadelphia, Pa. Boxed cans for oils, varnishes, spirits of turpentine, and other liquids	10,745	Nov. 27	25	790
Burnside, George L., Bellows Falls, Vt. Curative plaster	10,709	Nov. 13	25	604
Burnside, George L., Bellows Falls, Vt. Cosmetic	10,740	Nov. 27	25	790
Burroughs, Wellcome & Co., Snow Hill, London, England. Drugs and chemicals	9,934	Jan. 9	23	95
Burroughs, Wellcome & Co., Snow Hill, London, England. Drugs and chemicals	9,935	Jan. 9	23	95
Bush, Alfred S., Kingston, N. Y. Baking-powder and yeast	10,383	July 3	24	2
Bush & Co., T. G., Mobile, Ala. Flour	10,398	July 3	24	2
Butcher, C. F., Sheffield, England. Files, edge-tools, razors, and cutlery	10,596	Sept. 25	24	1180
Butcher, C. F., Sheffield, England. Files, edge-tools, razors, and cutlery	10,597	Sept. 25	24	1180
Butcher, Charles F., Sheffield, England. Files	10,422	July 17	24	208
Butcher, Charles F., Sheffield, England. Razors	10,423	July 17	24	208
Calm, Charles E., New York, N. Y. Chemical salts for preserving and curing animal and vegetable food	10,288	May 22	23	1930
Canfield Company, I. A., Middletown, Conn. Dress-shields	10,253	May 8	23	1736
Canfield, Henry Y., New York, N. Y. Condensed or concentrated milk	10,746	Nov. 27	25	790
Cannon & Co., B., Lincoln, England. Salted sheep-skins	10,278	May 22	23	1930
Cannon & Co., B., Lincoln, England. Glue	10,279	May 22	23	1930
Cannon & Sons, E., Dublin, Ireland. Glue	10,289	May 22	23	1930
Cardeza, Gilliams & Co., Philadelphia, Pa. Rye and other whisky	10,529	Aug. 21	24	708
Carson, Robert, Philadelphia, Pa. Ingrain carpets	10,192	Apr. 17	23	1450
Carter, Dinsmore & Co., Boston, Mass. Writing-ink	10,099	Mar. 13	23	942
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. Writing-fluid	10,098	Mar. 13	23	942
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. Mucilage	10,100	Mar. 13	23	942
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. Writing-ink	10,101	Mar. 13	23	942
Carter, Dinsmore & Co., Boston, Mass., and New York, N. Y. Mucilage	10,102	Mar. 13	23	942
Carter, Rice & Co. Corporation, Boston, Mass. Writing-paper	10,800	Dec. 25	25	1194
Catherwood & Co., Philadelphia, Pa. Teas	9,994	Jan. 30	23	348
Catherwood & Co., John H., Philadelphia, Pa. Teas	10,031	Feb. 13	23	544
Catherwood & Co., John H., Philadelphia, Pa. Teas	10,032	Feb. 13	23	544
Celluloid Manufacturing Company, New York, N. Y. Plastic material composed in part of pyroxyline	9,971	Jan. 23	23	274
Chamberlain, Roe & Co., New York, N. Y. Lard	10,656	Oct. 23	25	294
Chamberlain, Roe & Co., New York, N. Y. Lard	10,657	Oct. 23	25	294
Chamberlin, Dewstoe & Co., Dubuque, Iowa. Cigars and smoking and chewing tobacco	10,679	Oct. 30	25	398
Chandon & Co., Epernay, France. Sparkling wines	9,995	Jan. 30	23	348
Chase & Budlong, Aurora, Ill. Salves and plasters	10,499	Aug. 14	24	605

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Cheever, John H., New York, N. Y. India-rubber compound used for steam-packing and like purposes	10,345	June 12	23	2242
Chemical Ozone Manufacturing Company, Boston, Mass. Concentrated ozone-water	9,968	Jan. 16	23	196
Chester Oil Company, Philadelphia, Pa. Refined petroleum-oil	10,236	May 1	23	1626
Clark & Bro., M. H., Clarksville, Tenn. Leaf-tobacco	10,546	Aug. 28	24	802
Clark, George E., Cleveland, Ohio. Sugar-coated pop-corn	10,735	Nov. 20	25	702
Clark Thread Company, Newark, N. J. Packages of thread	10,023	Feb. 6	23	440
Clausen & Son Brewing Company, H., New York, N. Y. Malt liquors	10,370	June 26	23	2416
Clausen & Son Brewing Company, H., New York, N. Y. Beer, ale, stout, and porter	10,576	Sept. 11	24	998
Clostre, Henry, Paris, France. Phenol	9,996	Jan. 30	23	348
Coats & Evans, Binghamton, N. Y. Paper pails	10,608	Oct. 2	25	2
Coffin, Altemus & Co., Philadelphia, Pa., New York, N. Y., Boston, Mass., and Baltimore, Md. Cotton prints	9,978	Jan. 23	23	274
Cole & Co., H. C., Chester, Ill. Wheat-flour	10,598	Sept. 25	24	1180
Cole & Co., H. C., Chester, Ill. Wheat-flour	10,599	Sept. 25	24	1180
Cole & Co., H. C., Chester, Ill. Wheat-flour	10,600	Sept. 25	24	1180
Coleman, Sol., Memphis, Tenn. Chewing-gum	10,649	Oct. 23	25	294
Colgan & Co., E. C., Louisville, Ky. Medicinal substance	10,206	Apr. 24	23	1532
Colgate & Co., New York, N. Y. Laundry-soap	10,014	Feb. 6	23	440
Collins Company, Collinsville, Conn. Plows and analogous implements	9,953	Jan. 16	23	195
Collins Company, Collinsville, Conn. Certain earth-working tools	9,954	Jan. 16	23	195
Collins Company, Collinsville, Conn. Certain earth-working tools	9,955	Jan. 16	23	195
Collins Company, Collinsville, Conn. Certain earth-working tools	9,956	Jan. 16	23	195
Collins Company, Collinsville, Conn. Plows and analogous implements	9,957	Jan. 16	23	196
Collins Company, Collinsville, Conn. Certain edge-tools	9,958	Jan. 16	23	196
Collins Company, Collinsville, Conn. Certain agricultural implements	10,006	Jan. 30	23	348
Colwell, Charles B., Jackson, Mich. Medicinal preparation for external and internal use	10,302	May 22	23	1930
Common Sense Fertilizer Company, Portland, Me., and Boston, Mass. Fertilizers	10,621	Oct. 9	25	98
Compagnie Laferme, Dresden, Saxony, Germany. Cigarettes and smoking-tobacco	10,182	Apr. 10	23	1340
Consolidated Bottling Company, Bradford, Pa. Bottled beer, ale, porter, and all carbonated drinks	10,265	May 15	23	1836
Converse, Edmund C., Pittsburg, Pa. Metal tubing	10,759	Dec. 4	25	886
Converse, Edmund C., Pittsburg, Pa. Metal tubing	10,781	Dec. 18	25	1082
Cook & Bernheimer, New York, N. Y. Medicinal preparation known as wheat, lime, and rye	10,640	Oct. 16	25	196
Cooke & Eddy, Providence, R. I. Sleeve-buttons, collar-buttons, and studs	10,418	July 10	24	104
Coombs, Crosby & Eddy, New York, N. Y. Illuminating-oil	9,970	Jan. 23	23	274
Copp, Frederick E., Loudon, N. H. Liniment	10,519	Aug. 14	24	606
Corbitt, Martha C., Montgomery, Ala. Liniment	10,609	Oct. 2	25	2
Cotter, John, Baltimore, Md. Whisky	9,997	Jan. 30	23	348
Counselman & Co., L. W., Baltimore, Md. Canned oysters	10,723	Nov. 20	25	702
Craig Kidney Cure Co., Rochester, N. Y. Proprietary medicines	10,188	Apr. 17	23	1450
Crane & Bro., Z., Jr., Dalton, Mass. Writing-paper and envelopes of all kinds	10,650	Oct. 23	25	294
Crane, Willard G., Cambridge, Ill. White bar-soap	10,610	Oct. 2	25	2
Crosby & Son, Henry B., Paterson, N. J. Wheat-flour	10,112	Mar. 13	23	942
Cumberlege, Alexander B., No. 8 Newman Street, Oxford Street, county of Middlesex, England. Water-proof polish-blacking	10,583	Sept. 18	24	1094
Cushing Process Company, Boston, Mass. Rum, brandy, whisky, gin, and foreign and domestic wines	10,551	Aug. 28	24	802
Danziger, Hirsch S., New York, N. Y. Moth and insect exterminator	10,033	Feb. 13	23	544
David, Jean B., St. Etienne, France. Velvets	10,479	Aug. 7	24	499
David, Jean B., St. Etienne, France. Velvets	10,480	Aug. 7	24	500
Davidson Bros., New York, N. Y. Ornamental chains	10,384	July 3	24	2
Davis, Bro. & Co., Trenton, N. J. Laundry-soap	10,207	Apr. 24	23	1532
Davis, F. A., Crum Lynne, Pa. Books, letter-headings, envelopes, paper-wrappers, advertising-circulars, pamphlets, &c	9,998	Jan. 30	23	348
Davol, Joseph, Providence, R. I. Elastic-bulb syringes	10,034	Feb. 13	23	544
De Castro & Co., D., assignors to S. O. Ryder, New York, N. Y. Flour	9,999	Jan. 30	23	348
De Kuyper & Son, John, Rotterdam, Holland. Gin	10,490	Aug. 7	24	500
De Peugeot Fréres, Les Fils, Valentigney, Doubs, France. Certain edge-tools	10,375	June 26	23	2416
Déclat Manufacturing Company, New York, N. Y. Medical and chemical preparations for the treatment and cure of human diseases	10,337	June	23	2124
Déclat Manufacturing Company, New York, N. Y. Surgical instruments and appliances	10,424	July 1	24	208
Denny & Sons, Henry, Chicago, Ill. Ham, bacon, and lard	9,979	Jan. 23	23	274
Denny & Sons, Henry, Chicago, Ill. Ham, bacon, and lard	10,290	May 22	23	1930
Denny & Sons, Henry, Chicago, Ill. Ham, bacon, and lard	10,601	Sept. 25	24	1180
Deutz & Geldermann, Ay, France. Champagne-wine	10,266	May 15	23	1836
Deutz & Geldermann, Ay, France. Champagne-wine	10,267	May 15	23	1836
Dick, George A., Southwark, county of Surrey, England. Alloy of metal	10,602	Sept. 25	24	1180
Dodge, Emmett B., Cleveland Ohio. Remedy for external and internal pain	9,972	Jan. 23	23	274
Dollfus-Mieg & Co., Müllhausen, Alsace-Lorraine, Germany. Cotton yarns and braids	10,631	Oct. 16	25	196
Dolge, Alfred, New York, N. Y. Felt slippers, boots, and shoes	10,365	June 26	23	2416
Dorgeval, Polydore, Paterson, N. J. Silk piece-goods	10,068	Feb. 27	23	744
Downes, Henry, New York, N. Y. Sparkling beverages	10,280	May 22	23	1930
Doyle & Co., Henry, San Francisco, Cal. Cotton twine, cod-lines, and carpet-warps	10,632	Oct. 16	25	196
Doyle & Co., Henry, San Francisco, Cal. Cotton twines, cod-lines, and carpet-warps	10,633	Oct. 16	25	196
Draper, Francis S., Attleborough, Mass. Pins, rings, chains, bracelets, brooches, drops, &c	10,770	Dec. 11	25	984
Dueber Watch Case Manufacturing Company, Cincinnati, Ohio, Newport, Ky., Chicago, Ill., and New York, N. Y. Rolled-gold-plate watch-cases	10,377	June 26	23	2416
Duffield & Moll, Philadelphia, Pa. Cholera medicine	10,584	Sept. 18	24	1094
Dunham, William E., Fall River, Mass. Silver-polish	10,634	Oct. 16	25	196
Dunn Leonard F., Community and Niagara Falls, N. Y. Knives, forks, and spoons	10,765	Dec. 4	25	886
Dunning, John E. (See Allen and Dunning.)				
Dushane, John A., Baltimore, Md. Wrapping-paper	9,985	Jan. 30	23	348
Dwight & Co., John, New York, N. Y. Baking-soda, saleratus, and baking-powder	9,921	Jan. 2	23	2
Dwight & Co., John, New York, N. Y. Baking-soda, saleratus, and baking-powder	10,118	Mar. 20	23	1036
Eagle Cotton Gin Company, Bridgewater, Mass. Cotton-gins	10,801	Dec. 25	25	1194
Ebel, Josef, New York, N. Y. Stomachic	10,090	Mar. 6	23	834
Edge, Malkin & Co., Burslem, county of Stafford, England. Earthenware, iron-stone china, black luster, and fancy-colored stoneware	10,710	Nov. 13	25	604
Egerton & Co., Samuel E., Baltimore, Md. Baking-powder	10,505	Aug. 14	24	606
Electric Lustre Starch Co., New York, N. Y. Starch	10,371	June 26	23	2416
Elnain & Co., Frankfort-on-the-Main, Germany. Pills	10,451	July 24	24	306
Elyria Shear Company, Elyria, Ohio. Shears and scissors	10,494	Aug. 7	24	500
Elyria Shear Company, Elyria, Ohio. Shears and scissors	10,495	Aug. 7	24	500
Emerson, James E., Beaver Falls, Pa. Saws having insertible teeth	10,795	Dec. 18	25	1082

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Entenza, Manuel, Waldo, Fla. Cigars	10,491	Aug. 7	24	500
Erwin, Gayden & Yongue, Winona, Miss. Cure for the opium habit	10,250	May 1	23	1626
Espey, John E., Bloomington, Ill. Toilet preparation	10,024	Feb. 6	23	440
Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Metallic pens	10,157	Apr. 10	23	1340
Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Metallic pens	10,158	Apr. 10	23	1340
Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Metallic pens	10,159	Apr. 10	23	1340
Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Metallic pens	10,160	Apr. 10	23	1340
Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Metallic pens	10,161	Apr. 10	23	1340
Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Metallic pens	10,603	Sept. 25	24	1180
Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Metallic pens	10,604	Sept. 25	24	1180
Evans, Henry S., Montreal, Quebec, Canada. Sedative preparation or compound	10,281	May 22	23	1930
Evans, Henry S., Montreal, Quebec, Canada. Certain articles for nursery use	10,393	July 3	24	2
Evans, Henry S., Montreal, Quebec, Canada. Certain surgical instruments and appliances	10,394	July 3	24	2
Evans, Henry S., Montreal, Quebec, Canada. Certain articles for toilet use	10,425	July 17	24	208
Exstein & Co., Hiram, Buffalo, N. Y. Overalls, shirts, underwear, pants, suspenders, and collars	10,268	May 15	23	1836
Exstein & Co., Hiram, Buffalo, N. Y. Overalls, shirts, underwear, pants, suspenders, and collars	10,269	May 15	23	1836
Fahys & Co., Joseph, New York, N. Y. Watches	10,372	June 26	23	2416
Fairbank & Co., N. K., Chicago, Ill. Refined lard	10,162	Apr. 10	23	1340
Fairbank & Co., N. K., Chicago, Ill. Refined lard	10,163	Apr. 10	23	1340
Falkenau, Oppenheimer & Co., New York, N. Y. Diamond-settings	10,721	Nov. 20	25	702
Ferré, Jules, Paris, France. Medicine for the treatment of the diseases of the genital organs	10,741	Nov. 27	25	790
Ferré, Jules, Paris, France. Medical capsule	10,742	Nov. 27	25	790
Ferré, Jules, Paris, France. Medical preparations for the cure of the diseases of the genital organs	10,743	Nov. 27	25	790
Fickett & Beal, Boston, Mass. Laundry-blues	10,002	Jan. 30	23	348
Fiechter Manufacturing Company, Louis B., Minneapolis, Minn. Roller-mills, centrifugal reels, and bolting-cloths	10,611	Oct. 2	25	2
Fillmann & Co., Chicago, Ill. Ornamental moldings	10,408	July 10	24	104
Fingerhut, Richard, New York, N. Y. Dentifrice	10,063	Feb. 20	23	634
Fish Bros. & Co., Racine, Wis. Farm and spring wagons, phaetons, buggies, sleighs, and like vehicles	10,612	Oct. 2	25	2
Fitzsimmons & Kreider, Jacksonville, Ill. Flour	10,506	Aug. 14	24	606
Fones Brothers, Little Rock, Ark. Cutlery and edge-tools	10,771	Dec. 11	25	984
Foote, J. Howard, New York, N. Y. Musical instruments	10,552	Aug. 28	24	802
Foote, Truman S., New Haven, Conn. Bitters	10,452	July 24	24	306
Forbes & Co., J. E., Ottawa, Kans. Stoves	10,328	June 5	23	2124
Fortenbaugh, Albert, Baltimore, Md. Shoe-blacking	10,085	Mar. 6	23	834
Foster & Sons, M. B., London, England. Ales, stouts, and cider	10,164	Apr. 10	23	1340
Francis Brothers, Uhrichsville, Ohio. Cathartic medicine	10,261	May 8	23	1736
Franco-Californian Packing Company, San Francisco, Cal. Canned fruits, vegetables, and other articles of food	10,658	Oct. 23	25	294
Frankenberg, Henry E., Brooklyn, N. Y. Knitting and embroidery thread and yarn	10,124	Mar. 20	23	1036
Franklin, Stephen D., Philadelphia, Pa. Compound for cleaning fabrics	10,613	Oct. 2	25	2
Fraser, Farley & Varnum, Yokohama, Japan. Teas	10,724	Nov. 20	25	702
French Spiral Spring Company, (limited,) Pittsburg, Pa. Spiral car-springs	10,565	Sept. 18	24	1094
Fulton Gravity Scale Company, Cincinnati, Ohio. Scales	10,035	Feb. 13	23	544
Gaff, Fleischmann & Co., New York, N. Y. Compressed yeast	10,000	Jan. 30	23	348
Gaff, Fleischmann & Co., New York, N. Y. Compressed yeast	10,001	Jan. 30	23	348
Gail & Ax, G. W., Baltimore, Md. Smoking, and smoking and chewing tobacco	10,817	Dec. 25	25	1194
Galt & Co., William M., Washington, D. C. Patent-process flour	10,313	May 29	23	2036
Galt & Co., William M., Washington, D. C. Patent-process flour	10,314	May 29	23	2036
Gambrill Sons & Co., Baltimore, Md. Cotton duck and twines	10,037	Feb. 13	23	544
Gandy, Maurice, Liverpool, county of Lancaster, England. Cotton belting	10,303	May 22	23	1930
Gandy, Maurice, Liverpool, England, and Baltimore, Md. Non-elastic cotton belts or bands	10,481	Aug. 7	24	500
Garcia, Bro. & Co., F., New York, N. Y. Cigars	10,025	Feb 6	23	440
Garcia, Bro. & Co., F., New York, N. Y. Leaf-tobacco	10,086	Mar. 6	23	834
Gargan, Henri L., New York, N. Y. Silk piece-goods	10,056	Feb. 20	23	634
Garr Bros., Louisville, Ky. All kinds of chewing and smoking tobacco	10,453	July 24	24	306
Garrison, C. G., Prairie Grove, Ark. Certain proprietary medicines	10,538	Aug. 21	24	708
Gaylord, Samuel M., Philadelphia, Pa. Liniment	10,125	Mar. 20	23	1036
Gibbs, John S., Baltimore, Md. Canned oysters, fruits, and vegetables	10,446	July 17	24	208
Gilbert & Co., Givet, Ardennes, France. Lead-pencils	10,782	Dec. 18	25	1082
Gilbert & Co., Givet, Ardennes, France. Lead-pencils	10,783	Dec. 18	25	1082
Gilbert & Co., B. S., York, Pa. Baking-powder	10,224	May 1	23	1626
Gillott & Sons, Joseph, Birmingham, England. Steel pens	10,426	July 17	24	208
Gillott & Sons, Joseph, Birmingham, England. Steel pens	10,427	July 17	24	208
Gillott & Sons, Joseph, Birmingham, England. Steel pens	10,428	July 17	24	208
Gillott & Sons, Joseph, Birmingham, England. Steel pens	10,429	July 17	24	208
Gilmore, Edward S., Newton, Mass. Wheat-flour	10,036	Feb. 13	23	544
Glen Cove Manufacturing Company, Glen Cove, N. Y. Glucose	10,373	June 26	23	2416
Glen Cove Manufacturing Company, Glen Cove, N. Y. Glucose	10,374	June 26	23	2416
Glen Cove Manufacturing Company, Glen Cove, N. Y. Glucose	10,482	Aug. 7	24	500
Glen Cove Manufacturing Company, Glen Cove, N. Y. Glucose	10,483	Aug. 7	24	500
Globe Tobacco Company, Detroit, Mich. Chewing and smoking tobacco, cigars, and cigarettes	10,338	June 5	23	2124
Globe Tobacco Company, Detroit, Mich. Smoking and chewing tobacco, cigars, and cigarettes	10,659	Oct. 23	25	294
Goodall, Backhouse & Co., Leeds, county of York, England. Baking-powder	10,173	Apr. 10	23	1340
Goodall, Backhouse & Co., Leeds, county of York, England. Sauce	10,174	Apr. 10	23	1340
Goodwin & Co., New York, N. Y. Chewing and smoking tobacco, cigars, and cigarettes	10,200	Apr. 17	23	1450
Goodwin & Co., New York, N. Y. Smoking-tobacco, cigars, and cigarettes	10,201	Apr. 17	23	1450
Goodwin & Co., New York, N. Y. Cheroots, cigars, cigarettes, and smoking and chewing tobacco	10,622	Oct. 9	25	98
Goodwin & Co., New York, N. Y. Cheroots, cigars, cigarettes, and smoking and chewing tobacco	10,635	Oct. 16	25	196
Goodwin & Co., Brooklyn, N. Y. Cigarettes, cigars, and smoking and chewing tobacco	10,802	Dec. 25	25	1194
Gordon, Alexander, Detroit, Mich. Cigars	10,147	Mar. 27	23	1126
Gordon, Alexander, Detroit, Mich. Cigars	10,492	Aug. 7	24	500
Gorrell, John G., Ossian, Ind. Burning-fluids	10,680	Oct. 30	25	398
Goumas & Co., P., Paris, France. Certain musical instruments	10,366	June 26	23	2416
Graham & Co., James S., Rochester, N. Y. Re-saws, molding-machines, planers, &c	10,547	Aug. 28	24	802
Graham, Robert K., Montreal, Quebec, Canada. Certain proprietary medicines	10,641	Oct. 16	25	196
Granular Metal Company, Boston, Mass. Pigs of Babbitt metal	10,614	Oct. 2	25	2
Gray, Dawes & Co., London, England. Dates	10,355	June 19	23	2330
Greene, George E., New York, N. Y. Packages of canned meat	10,087	Mar. 6	23	834
Grimm & Co., Chas., New York, N. Y. Candles and sugar toys	10,270	May 15	23	1836
Groom Shovel Company, St. Louis, Mo. Shovels, scoops, and spades	10,516	Aug. 14	24	606
Guggenheim's Sons, M., New York, N. Y., and St. Gall, Switzerland. Hamburg edgings, Swiss embroideries, and like fabrics	10,367	June 26	23	2416

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Hackett, George W. (See Prentice and Hackett.)				
Hadley Company, Boston, Mass. Shoe-thread	10,470	July 31	24	394
Hale Brothers, Sheffield, county of York, England. Cutlery and edge-tools of every kind	10,560	Aug. 28	24	802
Haley, Christina J. (See Minor and Haley.)				
Hall Brothers, Baltimore, Md. Canned oysters, fruits, and vegetables	9,936	Jan. 9	23	96
Hall & Co., Jos. S., New York, N. Y. Medical remedy for the diseases of women	10,307	May 29	23	2036
Hall & Co., Jos. S., New York, N. Y. Remedy for dyspepsia	10,308	May 29	23	2036
Halliday & Co., A., New York, N. Y. Whisky	10,020	Feb. 6	23	440
Hamann, Adolf, Dresden, Saxony, Germany. Porcelain-ware	10,282	May 22	23	1930
Hamilton, Robert, Covington, Ky. Fine-cut, plug, and smoking tobacco	10,454	July 24	24	306
Hamilton, Robert, Covington, Ky. Fine-cut chewing, plug, and smoking tobacco, cigars, and cigarettes	10,464	July 24	24	306
Hamlin's Wizard Oil Company, Chicago, Ill. Liniment	10,141	Mar. 27	23	1126
Hanes & Co., P. H., Winston, N. C. Chewing-tobacco	10,271	May 15	23	1836
Hanes & Co., P. H., Winston, N. C. Chewing-tobacco	10,272	May 15	23	1836
Hann & Co., New York, N. Y. Composition for removing and preventing incrustation in steam-boilers	10,237	May 1	23	1626
Harder, Minard, Cobleskill, N. Y. Horse-powers	10,225	May 1	23	1626
Harder, Minard, Cobleskill, N. Y. Thrashers and separators	10,226	May 1	23	1626
Harper, Thomas H., Redditch, county of Worcester, England. Needles	10,168	Apr. 10	23	1340
Harris' Sons, Joel H., Quincy, Ill. Plug-tobacco	10,666	Oct. 23	25	294
Harris' Sons, Joel H., Quincy, Ill. Plug-tobacco	10,667	Oct. 23	25	294
Harris' Sons, Joel H., Quincy, Ill. Plug-tobacco	10,668	Oct. 23	25	294
Harris' Sons, Joel H., Quincy, Ill. Plug-tobacco	10,669	Oct. 23	25	294
Harris' Sons, Joel H., Quincy, Ill. Plug-tobacco	10,670	Oct. 23	25	294
Harris' Sons, Joel H., Quincy, Ill. Plug-tobacco	10,784	Dec. 18	25	1062
Harrison, Bartleet & Co., Richard, Redditch, county of Worcester, England. Fish-hooks	10,135	Mar. 27	23	1126
Harrison, Bartleet & Co., Richard, Redditch, county of Worcester, England. Fish-hooks and fishing-tackle	10,189	Apr. 17	23	1450
Harrison Brothers & Co., Philadelphia, Pa. Concentrated alum	10,466	July 24	24	306
Hartford Woven Wire Mattress Company, Hartford, Conn. Woven-wire fabrics for beds, chairs, settees, &c	10,217	Apr. 24	23	1532
Hartman, Josephus, Philadelphia, Pa. Biscuit-crackers	10,623	Oct. 9	25	98
Hartshorn, Eugene H., Boston, Mass. Preparation for cleaning and polishing jewelry, &c	10,329	June 5	23	2124
Haviland & Co., New York, N. Y. Porcelain, earthenware, and glassware	10,525	Aug. 21	24	707
Haviland & Co., New York, N. Y. Porcelain, earthenware, and glassware	10,526	Aug. 21	24	707
Haviland & Co., New York, N. Y. Porcelain, earthenware, and glassware	10,527	Aug. 21	24	708
Haviland & Co., New York, N. Y. Porcelain, earthenware, and glassware	10,528	Aug. 21	24	708
Hawkes, Albert K., Austin, Tex. Spectacles and eyeglasses	10,805	Dec. 25	25	1194
Hawley & Hoops, New York, N. Y. Wooden toy goblets	10,142	Mar. 27	23	1126
Hawthorn, Aldus F. and G. W., Lancaster, Pa. Roofing-paint	10,136	Mar. 27	23	1126
Hawthorn, George W. (See Hawthorn, Aldus F. and G. W.)				
Hayford, James W. (See Myers, Hayford, and Yingling.)				
Hazeltine, Ezra T., Warren, Pa. Remedy for consumption	10,471	July 31	24	394
Hecker und Soehne, Gottlieb, Chemnits, Germany. Hosiery	10,354	June 19	23	2330
Hedges, Ira M., and G. H. Smith, Haverstraw, N. Y. Bricks	10,769	Dec. 4	25	886
Heidsieck & Co., Rheims, France. Champagne-wine	10,075	Feb. 27	23	744
Heinz, F. & J., Pittsburg, Pa. Pickles, vinegar, sauces, catsups, prepared horse-radish, prepared mustard, preserves, jellies, marmalades, jams, and fruit-butters	10,119	Mar. 20	23	1036
Hennessy & Co., James, Cognac, France. Brandy	10,038	Feb. 13	23	544
Hess & Co., J. H., Charleston, Mo. Oil liniment	10,766	Dec. 4	25	886
Hetfield & Ducker, Brooklyn, N. Y. Biscuits, crackers, jumbles, snaps, cakes, wafers, and kindred articles	9,986	Jan. 30	23	348
Hetfield & Ducker, Brooklyn, N. Y. Crackers, biscuits, jumbles, snaps, cakes, wafers, and kindred articles	10,346	June 12	23	2242
Higgins, Charles A., Flemington, N. J. Certain proprietary medicines	10,681	Oct. 30	25	398
Higgins, Joseph C. (See Kilmer and Higgins.)				
Hiller, Frederick, Jr., San Francisco, Cal. Specific for the respiratory organs	10,209	Apr. 24	23	1532
Hines' Preserving Company, Chicago, Ill. Food-preservative	10,208	Apr. 24	23	1532
Hirschl & Bendheim, St. Louis, Mo. Cigars, cigarettes, and chewing and smoking tobacco	10,378	June 26	23	2416
Hirschl & Bendheim, St. Louis, Mo. Cigars, cigarettes, and smoking and chewing tobacco	10,700	Nov. 6	25	506
Hitt, Daniel C. (See Hitt, James B. and D. C.)				
Hitt, James B. and D. C., Urbana, Ohio. Cigars, plug, fine-cut, and smoking tobacco	10,517	Aug. 14	24	606
Hoffman, Edward J., Sioux City, and W. H. Ransom, Missouri Valley, Iowa. Compound for preventing the incrustation of steam-boilers	10,227	May 1	23	1626
Hoffman & Son, Emanuel, New York, N. Y. Manufactured and unmanufactured tobacco	10,202	Apr. 17	23	1450
Hogg, Thomas P., Paris, France. Cod-liver oil	10,228	May 1	23	1626
Hollender, Frederick, New York, N. Y. Lager-beer	10,176	Apr. 10	23	1340
Hollender, Frederick, New York, N. Y. Lager-beer	10,177	Apr. 10	23	1340
Hollender, Frederick, New York, N. Y. Lager-beer	10,178	Apr. 10	23	1340
Hollender, Frederick, New York, N. Y. Natural mineral waters	10,179	Apr. 10	23	1340
Holmes, Clay W., Elmira, N. Y. Toilet preparation	10,069	Feb. 27	23	744
Holzner, Herman, Newark, N. J. Cigars, cigarettes, and smoking and chewing tobacco	9,930	Jan. 2	23	2
Homer, Charles F., New York, N. Y. Silk and velvet ribbons	10,420	July 10	24	104
Hooper & Son, William J., Baltimore, Md. Seine-twine	10,339	June 5	23	2124
Hoopes, I. E. & L. S., Lancaster, Pa. Fertilizer	9,959	Jan. 16	23	196
Hoopes, I. E. & L. S., Lancaster, Pa. Fertilizer	9,960	Jan. 16	23	196
Hopkins and Milnor, Baltimore, Md. Hodrocarbon fluid	10,254	May 8	23	1736
Hopkins, Rosell & Co., New York, N. Y. Oils to prevent rust, tarnish, or verdigris	10,070	Feb. 27	23	744
Hornthal & Deiches, Baltimore, Md. Manufactured chewing-tobacco	10,399	July 3	24	2
Hovey, Alphonso A., Detroit, Mich. Starch	10,320	May 29	23	2036
Hovey, Alphonso A., Detroit, Mich. Starch	10,321	May 29	23	2036
Hubbell, Lucretia B., Norwich, Conn. Proprietary medicine	9,962	Jan. 16	23	196
Hubbs, Edwin F., Philadelphia, Pa. Specific cure for piles	10,448	July 17	24	208
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,203	Apr. 17	23	1450
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,204	Apr. 17	23	1450
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,291	May 22	23	1930
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,292	May 22	23	1930
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,293	May 22	23	1930

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,294	May 22	23	1930
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,295	May 22	23	1930
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,296	May 22	23	1930
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,297	May 22	23	1930
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,298	May 22	23	1930
Humiston Food Preserving Company, Hartford, Conn., and Boston and Salem, Mass. Food-preservatives	10,299	May 22	23	1930
Huppmann, Joseph, New York, N. Y. Cigarettes	10,660	Oct. 23	25	294
Hurlburt, Charles T., New York, N. Y. Homeopathic medicinal preparations	10,725	Nov. 20	25	702
Huston, Robert, Philadelphia, Pa. Ingrain carpets	10,586	Sept. 18	24	1094
Iglehart & O'Donnell, Baltimore, Md. Whisky	10,094	Mar. 6	23	834
Imbs & Co., J. F., St. Louis, Mo. Flour	10,255	May 8	23	1736
Imperatori, Sarah J., Brooklyn, N. Y. Anti-rheumatic mixture	10,472	July 31	24	394
Imperial Guano Company, Norfolk, Va. Fertilizers	10,057	Feb. 20	23	634
Ingham, Harvey A., Waltham, Vt. Proprietary medicines	10,196	Apr. 17	23	1450
Ingham, Harvey A., Vergennes, Vt. Proprietary medicines	10,210	Apr. 24	23	1532
Iowa Farming Tool Company, Fort Madison, Iowa. Hoes	10,726	Nov. 20	25	702
Irrmann, Michael, Chicago, Ill. Havana cigars	10,662	Oct. 30	25	398
Jackson Company, Nashua, N. H. Cotton sheetings and shirtings	10,256	May 8	23	1736
Jackson Company, Nashua, N. H. Cotton sheetings and shirtings	10,257	May 8	23	1736
Jacobsen, Jacob C., New York, N. Y. Beer	10,347	June 12	23	2242
Jacoby & Co., S., New York, N. Y. Cigars, cigarettes, and smoking-tobacco	10,262	May 8	23	1736
Jacoby & Co., S., New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco	10,493	Aug. 7	24	500
Jacquemin Frères, J. B., London, England. Certain optical goods	10,430	July 17	24	208
Jannopoulo, Demetrius, St. Louis, Mo. Water-proof clothing	9,940	Jan. 9	23	96
Jaques, Atwood & Co., Chicago, Ill. Baking-powder	10,615	Oct. 2	25	2
Jarvis & Hooper, Detroit, Mich. Fertilizers	10,507	Aug. 14	24	606
Jayne & Son, Dr. D., Philadelphia, Pa. Medicinal preparations	10,553	Aug. 28	24	802
Jennings & Sons, A. G., Brooklyn and New York, N. Y. Lace goods	10,238	May 1	23	1626
Jennings & Sons, A. G., Brooklyn and New York, N. Y. Nets and lace goods	10,239	May 1	23	1626
Jennings & Sons, A. G., Brooklyn and New York, N. Y. Nets and lace goods	10,240	May 1	23	1626
Jennings & Sons, A. G., Brooklyn and New York, N. Y. Hair-nets and other reticulated fabrics	10,241	May 1	23	1626
Jennings & Sons, A. G., Brooklyn and New York, N. Y. Nets	10,395	July 3	24	2
Jennings & Sons, A. G., Brooklyn and New York, N. Y. Hair-nets and other reticulated fabrics	10,566	Sept. 4	24	904
Jennings & Sons, A. G., Brooklyn and New York, N. Y. Hair-nets and other reticulated fabrics	10,567	Sept. 4	24	904
Jennings & Sons, A. G., Brooklyn and New York, N. Y. Hair-nets and other reticulated fabrics	10,568	Sept. 4	24	904
Jennings & Sons, A. G., Brooklyn and New York, N. Y. Hair-nets and reticulated fabrics	10,727	Nov. 20	25	702
Johns, Thompson & Co., Cincinnati, Ohio. Lubricants or oils for journal-bearings	9,939	Jan. 9	23	96
Johns, Thompson Company, Cincinnati, Ohio. Lubricating-oil	10,797	Dec. 18	25	1082
Johnson Bros. & Leeper, Cincinnati, Ohio. Axes	10,131	Mar. 20	23	1036
Johnson, William R., Jr., and C. H. Wray, Lynchburg, Va. Cigars, cigarettes, smoking and chewing tobacco, and snuff	10,431	July 17	24	208
Jones, John A., Chicago, Ill. Ground or powdered spices	10,624	Oct. 9	25	98
Jones, Joshua R., Philadelphia, Pa. Books, pamphlets, catalogues, and miscellaneous publications	10,021	Feb. 6	23	440
Joseph & Anderson, Montgomery, Ala. Flour	10,455	July 24	24	306
Joseph & Anderson, Montgomery, Ala. Flour	10,456	July 24	24	306
Kaercher, Albert J., Allegheny, Pa. Healing-balm for chapped hands	10,796	Dec. 18	25	1082
Kaercross, Edward H., Philadelphia, Pa. Remedy for kidney and urogenital diseases	10,356	June 19	23	2330
Kaercross, Edward H., Philadelphia, Pa. Proprietary medicines	10,520	Aug. 14	24	606
Kay Brothers, Stockport, county of Chester, England. Cement for mending broken articles	10,211	Apr. 24	23	1532
Keating, Thomas, London, England. Lozenges	9,987	Jan. 30	23	348
Keep, George C., Brooklyn, N. Y. Balm-drops	10,229	May 1	23	1626
Kelley & Lysle, Leavenworth, Kans. Wheat-flour	10,484	Aug. 7	24	500
Kelley & Lysle, Leavenworth, Kans. Wheat-flour	10,521	Aug. 14	24	606
Kelley, Theodore Y., London, England. Blacking	10,076	Feb. 27	23	744
Kelly, Francis E., Wilmington, Del. Whisky	10,244	May 1	23	1626
Kempster, Daniel E., Boston, Mass. Spring-balance shade-rollers	9,969	Jan. 16	23	196
Kendall & Co., B. J., Enosburg Falls, Vt. Hair restorer and invigorator	10,569	Sept. 4	24	904
Kendall Manufacturing Company, Providence, R. I. Soap-powder	10,212	Apr. 24	23	1532
Kenny, Cornelius D., Baltimore, Md. Mixed teas	10,485	Aug. 7	24	500
Kensley, George L., New Brighton, Pa. Long-legged and ankle boots	10,728	Nov. 20	25	702
Kenyon & Powles, Mount Union, Iowa. Remedy for rheumatism and other diseases and injuries	10,642	Oct. 16	25	196
Kerr & Son, W. J. W., Corsicana, Tex. Chill, fever, and ague medicines	10,754	Dec. 4	25	886
Kibbe, Elbert S., and C. P. Robinson, Hartford, Conn. Certain cured meats	9,951	Jan. 9	23	96
Kilmer, Frederic B., and J. C. Higgins, New Brunswick, N. J. Laxative	10,309	May 29	23	2036
Kipling, Edward E., New York, N. Y. Artificial stones or brilliants	10,385	July 3	24	2
Kipling, Edward E., New York, N. Y. Artificial stones or brilliants	10,386	July 3	24	2
King, Richard, Detroit, Mich. Remedy for dyspepsia and indigestion	10,073	Feb. 27	23	744
Kirk & Co., James S., Chicago, Ill. Soaps, perfumery, toilet preparations, and glycerine	10,616	Oct. 2	25	2
Kirk & Co., James S., Chicago, Ill. Toilet-soap	10,695	Nov. 6	25	506
Kirk & Co., James S., Chicago, Ill. Certain toilet preparations and articles	10,701	Nov. 6	25	506
Kirkpatrick & Co., A., Philadelphia, Pa. Medicine for the prevention and cure of chills and fever and malarial diseases	10,500	Aug. 14	24	605
Krug & Co., Rheims, France. Champagne-wine	10,508	Aug. 14	24	606
Krug & Co., Rheims, France. Champagne-wine	10,509	Aug. 14	24	606
Lacerte, Narcisse, Levis, Quebec, Canada. Diphtheria remedy	10,587	Sept. 18	24	1094
Lacroix, Leonide, Fils, Angoulême, (Charente,) France. Cigarette-paper	10,095	Mar. 13	23	942
Lalance & Grosjean Manufacturing Company, New York, N. Y. Enameled sheet-metal utensils and articles	10,322	May 29	23	2036
Lang, Bernheimer & Co., Philadelphia, Pa. Whisky	10,310	May 29	23	2036
Langdon Manufacturing Company, Manchester, N. H. Cotton piece-goods	10,137	Mar. 27	23	1126
Lasson, William, Berlin, Germany, and London, England. Hair-elixir	10,617	Oct. 2	25	2
Larus & Bro., Richmond, Va. Plug-tobacco	10,039	Feb. 13	23	544
Lau, Jacob H., New York, N. Y. Blasting-caps for exploding dynamite	10,628	Oct. 16	25	196
Lautz Brothers & Co., Buffalo, N. Y. Laundry and toilet soap	10,218	Apr. 24	23	1532
Lautz Bros. & Co., Buffalo, N. Y. Laundry and toilet soap	10,273	May 15	23	1836
Lawrence, Joseph J., St. Louis, Mo. Composition of tobacco	10,193	Apr. 17	23	1450
Lawrence, Joseph J., St. Louis, Mo. Special brand of coffee	10,729	Nov. 20	25	702
Lawton Brothers, New York, N. Y. Wheat-flour	10,058	Feb. 20	23	634

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Lazell, Marsh & Gardiner, New York, N. Y. Perfumery, toilet-powder, and cosmetics	10,702	Nov. 6	25	500
Leaman, W. & A., New York, N. Y. Flour	10,184	Apr. 10	23	1340
Legrand, Alexandre, Fécamp, France. Cordial	9,941	Jan. 9	23	96
Legrand, Alexandre, Fécamp, France. Cordial	9,942	Jan. 9	23	96
Legrand, Alexandre, Fécamp, France. Cordial	10,409	July 10	24	104
Legrand, Alexandre, Fécamp, France. Cordial	10,410	July 10	24	104
Legrand, Alexandre, Fécamp, France. Cordial	10,411	July 10	24	104
Legrand, Alexandre, Fécamp, France. Cordial	10,412	July 10	24	104
Legrand, Alexandre, Fécamp, France. Cordial	10,749	Nov. 27	25	790
Legrand, Alexandre, Fécamp, France. Cordial	10,750	Nov. 27	25	790
Legrand, Alexandre, Fécamp, France. Cordial	10,751	Nov. 27	25	790
Leib Lubricating Company, Buffalo, N. Y. Lubricants	10,113	Mar. 13	23	942
Leib Lubricating Company, Buffalo, N. Y. Lubricating-oils	10,114	Mar. 13	23	942
Leidersdorf & Co., B., Milwaukee, Wis. Smoking-tobacco	10,003	Jan. 30	23	348
Leidersdorf & Co., B., Milwaukee, Wis. Fine-cut and plug chewing-tobaccos, smoking-tobaccos, cigars, and cigarettes	10,005	Jan. 30	23	348
Leland, Smith & Co., Toledo, Ohio. Chewing-tobacco and cigars	10,731	Nov. 20	25	702
Lenk & Co., P., New York, N. Y. Champagne-wines	10,220	Apr. 24	23	1532
Levering & Co., E., Baltimore, Md. Roasted coffee	9,974	Jan. 23	23	274
Levinstein, Campbell & Co., I., New York, N. Y., and Manchester, England. Red coloring-matter	10,357	June 19	23	2330
Levy, Diamant, Oppenheimer & Co., San Francisco, Cal. Leather boots	10,120	Mar. 20	23	1036
Lewis, Bedell & Co., Newark, N. J. Varnishes	10,138	Mar. 27	23	1126
Libby & Co., James L., New York, N. Y. Shirts	10,150	Mar. 27	23	1126
Lighte & Brother, New York, N. Y. Mineral water and natural spring waters	10,486	Aug. 7	24	500
Lighte & Co., Jersey City, N. J. Beer, ale, porter, and all carbonated beverages	10,703	Nov. 6	25	506
Lincoln, Charles J., and E. L. Brown, Little Rock, Ark. Tonic	10,323	May 29	23	2036
Lipps, Christopher, Baltimore, Md. Laundry and toilet soap	10,403	July 10	24	104
Livingston, Bernard L., Baltimore, Md. Cigarettes	10,523	Aug. 14	24	606
Lockwood, John L., New York, N. Y. Mineral waters	10,432	July 17	24	208
Loeflund & Co., Stuttgart, Germany. Malt extract	10,219	Apr. 24	23	1532
Löhr, Heinrich, Düsseldorf, Prussia, Germany. Natural mineral waters	10,168	Apr. 10	23	1340
Lomax, John A., Chicago, Ill. Gentle sparkling liquid used as a beverage	10,311	May 29	23	2036
Loomis, John D., Suffield, Conn. Cigars	10,510	Aug. 14	24	606
Loos, August, New York, N. Y. American isinglass	10,730	Nov. 20	25	702
Loud, Herbert, Boston, Mass. Pulley-blocks	10,683	Oct. 30	25	398
Louisville Leaf Tobacco Company, Louisville, Ky. Sheep-dip	10,026	Feb. 6	23	440
Loveland, Henry D., Lamar, Pa. Axes	10,358	June 19	23	2330
Lowe & Co., Charles, Manchester, county of Lancaster, England. Drugs and chemicals	10,104	Mar. 13	23	942
Lozano, Pendas & Co, New York, N. Y. Cigars	9,937	Jan. 9	23	96
Lozano, Pendas & Co., New York, N. Y. Cigars	10,457	July 24	24	306
Lustro Company, New York, N. Y. Preparation for cleaning, dressing, and polishing ladies' shoes	9,963	Jan. 16	23	196
Lustro Company, New York, N. Y. Certain preparation for cleaning and polishing stoves	10,064	Feb. 20	23	634
Lutmer, Herman, Cincinnati, Ohio. Cigars	10,530	Aug. 21	24	708
Luyties Brothers, New York, N. Y. Natural mineral waters	10,487	Aug. 7	24	500
Luyties Brothers, New York, N. Y. Wines	10,539	Aug. 21	24	708
Lyon & Co., A. M., Richmond, Va. Plug, twist, and smoking tobacco	10,629	Oct. 16	25	196
Macalaster, O. P., Lynn, Mass. Remedy for toothache	10,091	Mar. 6	23	834
Macbeth & Co., George A., Pittsburg, Pa. Lamp-chimneys and lantern-globes	10,652	Oct. 23	25	294
Macbeth & Co., George A., Pittsburg, Pa. Lamp-chimneys	10,653	Oct. 23	25	294
Manneck, Charles H. and E. A. J., Brooklyn, N. Y. Machine-glue	10,722	Nov. 20	25	702
Manneck, Emile A. J. (See Manneck, Charles H. and E. A. J.)				
Marcy, Frederick L., Providence, R. I. Sleeve-buttons	10,121	Mar. 20	23	1036
Mark, Henry J., St. Louis, Mo. Steam-boiler-scale solvents	10,242	May 1	23	1626
Marsh & Co., G. E., Lynn, Mass. Soap in bars or cakes	10,625	Oct. 9	25	98
Marsh & Co., E. G., Lynn, Mass. Soap in bars or cakes	10,626	Oct. 9	25	98
Marsh & Co., G. E., Lynn, Mass. Soap in cakes or bars	10,711	Nov. 13	25	604
Marshall, Edwin L., Cleveland, Ohio. Tooth-picks	10,548	Aug. 28	24	802
Marx, Louis, New York, N. Y. Cigars	10,143	Mar. 27	23	1126
Marx, Louis, New York, N. Y. Cigars	10,760	Dec. 4	25	886
Marx, Louis, New York, N. Y. Cigars	10,761	Dec. 4	25	886
Matthes, Carl, Gross Salze, Prussia, Germany. Artificial mineral waters	10,798	Dec. 18	25	1082
May Brothers, New York, N. Y. Cigarette-paper	10,198	Apr. 17	23	1450
Mayer Brothers & Co., New York, N. Y. Cherry-juice	10,077	Feb. 27	23	744
Mayer Brothers & Co., New York, N. Y. Refined petroleum	10,577	Sept. 11	24	998
Mayer & Co., Robert, New York, N. Y. Lithographic inks	9,988	Jan. 30	23	348
McBride & Co., Atlanta, Ga. Water-filters	10,312	May 29	23	2036
McCormick Harvesting Machine Company, Chicago, Ill. Single-wheel reapers	10,704	Nov. 6	25	506
Megroz, Portier, Grose & Co., New York, N. Y. Velveteen	10,379	June 26	23	2416
Megroz, Portier, Grose & Co., New York, N. Y. Woolen dress-goods for women and children	10,380	June 26	23	2416
Megroz, Portier, Grose & Co., New York, N. Y. Woolen dress-goods	10,540	Aug. 21	24	708
Meincke, Alfred M., Brooklyn, N. Y. Paints and dyes	10,009	Jan. 30	23	348
Meinhard, Herman, New York, N. Y. Bitters	10,684	Oct. 30	25	398
Meissner, Ackermann & Co., New York, N. Y. Refined petroleum	10,387	July 3	24	2
Mellier, A. A., St. Louis, Mo. Specific for neuralgia and rheumatism	10,433	July 17	24	208
Mellin, Gustav, Retreat, Queen's Road, Peckham, county of Surrey, England. Prepared food for invalids and infants	10,806	Dec. 25	25	1194
Mellor, Taylor & Co., Burslem, county of Stafford, England. Stone-china	10,573	Sept. 4	24	904
Menacho, Puig & Co., New York, N. Y. Packages of lard	10,040	Feb. 13	23	544
Menacho, Puig & Co., New York, N. Y. Packages of lard	10,041	Feb. 13	23	544
Menacho, Puig & Co., New York, N. Y. Packages of lard	10,065	Feb. 20	23	634
Mendenhall, John C., Evansville, Ind. Certain proprietary fluid medicines	10,651	Oct. 23	25	294
Menier, Paris, France. Chocolate	10,340	June 5	23	2124
Menier, Paris, France. Chocolate	10,785	Dec. 18	25	1082
Merino Shoe Company, Boston, Mass. Felted-wool boots, shoes, slippers, and gaiters	10,618	Oct. 2	25	2
Mesler & Co., P. P., Dayton, Ohio. Horse-liniment	10,139	Mar. 27	23	1126
Mettee, Albert R., Baltimore, Md. Medicine for the cure of pulmonary and throat diseases	9,980	Jan. 23	23	274
Meunier & Co., A., Suresnes, France. Dyes for tissues	9,981	Jan. 23	23	274
Meyer Brothers & Co., St. Louis, Mo. Whisky	10,245	May 1	23	1626
Meyer & Bro., William, Lake Charles, La. Shingles	10,396	July 3	24	2
Michigan Stove Company, Detroit, Mich. Stoves, ranges, and heaters generally	10,007	Jan. 30	23	348
Michigan Stove Company, Detroit, Mich. Stoves, ranges, and heaters generally	10,008	Jan. 30	23	348
Milburn, Washington C., Washington, D. C. Beverage containing acid phosphates	10,458	July 24	24	306
Miller & Co., Henry T., Richmond, Va. Shirts, collars, cuffs, and underwear	10,434	July 17	24	208

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Miller & Co., I. & I., Bermondsey, county of Surrey, England, and of Millerton, Upton, and Mortimore, Canada Vegetable tanning extracts	9,944	Jan. 9	23	96
Miller & Co., John, Boston, Mass. Gin, rum, brandy, whisky, and foreign and domestic wines	10,488	Aug. 7	24	500
Miller, Leopold, New York, N. Y. Cigars, cigarettes, and all manufactured tobacco	10,194	Apr. 17	23	1450
Miller, Thomas L., Pearsall, Tex. Liniment to be used externally for the destruction of all kinds of parasites on stock and poultry and for healing the wounds caused by the same	10,476	July 31	24	394
Milward, Margaret F., Chicago, Ill. Playing-cards	10,712	Nov. 13	25	604
Minaldi & Co., A., New York, N. Y. Lemons and oranges	9,923	Jan. 2	23	2
Minor, Lyman D., and C. J. Haley, New York, N. Y. Garters	10,388	July 3	24	2
Mintons, Stoke-upon-Trent, county of Stafford, England. Pottery of every description	10,566	Sept. 18	24	1094
Mommer, Ewald, New York, N. Y. Velvet ribbons	10,747	Nov. 27	25	790
Morris, Henry M., Brooklyn, N. Y., assignor to J. A. Bances, Havana, Cuba. Cigars, cigarettes, and smoking-tobacco	10,554	Aug. 28	24	802
Morse Twist Drill and Machine Company, New Bedford, Mass. Cutting and drilling tools	10,389	July 3	24	2
Mort, Liddell & Co., Widnes, county of Lancaster, England. Caustic soda and soda-ash	10,107	Apr. 10	23	1340
Morton, Thomas, New York, N. Y. Sash-balances	10,246	May 1	23	1626
Mound City Paint & Color Company, St. Louis, Mo. Paints and oils	10,243	May 1	23	1626
Mount Vernon Company, Baltimore, Md. Certain woven cotton goods	10,522	Aug. 14	24	606
Mulford, Cary & Conklin, New York, N. Y. Cement for rubber goods and boots and shoes	10,737	Nov. 27	25	790
Müller, Peter, New York, N. Y. Substitute for hops	10,199	Apr. 17	23	1450
Mumm & Co., G. H., Rheims, France. Champagne-wine	10,513	Aug. 14	24	606
Myers, Benjamin F., J. W. Hayford, and G. S. Yingling, Tiffin, Ohio. Water-proof stove-polish	10,772	Dec. 11	25	984
Napheys & Son, George P., Philadelphia, Pa. Lard	10,078	Feb. 27	23	744
Nashua Manufacturing Company, Nashua, N. H. Cotton goods	10,169	Apr. 10	23	1340
National Herbal Cure Company, St. Louis, Mo. Certain proprietary medicines	10,549	Aug. 28	24	802
National Lager Beer Bottling Company, Cincinnati, Ohio. Lager-beer	10,531	Aug. 21	24	708
Nelson, William J., Bridgewater, Nova Scotia, Canada. Liniment	10,215	Apr. 24	23	1532
Neustaedter & Co., P., New York, N. Y. Pills	9,973	Jan. 23	23	274
New York and Rosendale Cement Company, New York, N. Y. Hydraulic cement	10,578	Sept. 11	24	998
New York Boat Oar Company, New York, N. Y. Oars, sweeps, sculls, and handspikes	10,467	July 24	24	306
New York Condensed Milk Company, New York, N. Y. Condensed milk	10,511	Aug. 14	24	606
New York Condensed Milk Company, New York, N. Y. Condensed milk	10,512	Aug. 14	24	606
New York Consolidated Card Company, New York, N. Y. Playing-cards	10,501	Aug. 14	24	605
New York Consolidated Card Company, New York, N. Y. Playing-cards	10,502	Aug. 14	24	606
Nichols & Co., D. P., Boston, Mass. Cabs	10,459	July 24	24	306
Noilly Prat & Co., Marseilles, France. Vermouth	10,786	Dec. 18	25	1062
North & Co., F. O., Boston, Mass. Blind-awnings	10,183	Apr. 10	23	1340
North & Judd Manufacturing Company, New Britain, Conn. Saddlery-hardware	10,762	Dec. 4	25	886
Norton Door Check and Spring Company, Boston, Mass. Pneumatic door-checks	10,589	Sept. 18	24	1094
Oberteuffer, Abegg & Daeniker, New York, N. Y. Taffeta ribbons with satin edges	10,713	Nov. 13	25	604
Oberteuffer, Abegg & Daeniker, New York, N. Y. Taffeta ribbons	10,738	Nov. 27	25	790
Olds & Co., Indianapolis, Ind. Toilet and laundry soap	10,763	Dec. 4	25	886
Osborn & Co., Samuel, Sheffield, county of York, England. Bar, plate, and various other kinds of steel	10,460	July 24	24	306
Osborne & Co., C. S., Newark, N. J. Saddle and harness tools	9,976	Jan. 23	23	274
Pace, Thomas N., and R. F. Sizer, Richmond, Va. All kinds and classes of manufactured tobacco	10,071	Feb. 27	23	744
Pace Tobacco Co., J. B., Richmond, Va. Plug, twist, and smoking tobacco	10,788	Dec. 18	25	1062
Pacific Vinegar Works, San Francisco, Cal. Certain vinegar made of wine	10,435	July 17	24	208
Page Belting Company, Concord, N. H. Certain kinds and articles of leather	10,348	June 12	23	2242
Palen, Gilbert E. (See Starkey and Palen.)				
Parent, Anatole P., Paris, France. Buttons	10,213	Apr. 24	23	1532
Parent, Anatole P., Paris, France. Buttons	10,214	Apr. 24	23	1532
Parent, Anatole P., Paris, France. Buttons	10,300	May 8	23	1930
Parisette, Louis, New York, N. Y. Bottled wines	10,330	June 5	23	2124
Parmenter Crayon Company, Waltham, Mass. Chalk-crayons	10,154	Apr. 3	23	1296
Passavant & Co., New York, N. Y. Silks, velvets, ribbons, and dress-goods	10,331	June 5	23	2124
Passavant & Co., New York, N. Y., and Frankfort, Germany. Velvets, satins, and silk goods	10,148	Mar. 27	23	1196
Patapsco Guano Company, Baltimore, Md. Fertilizers	10,230	May 1	23	1626
Patapsco Guano Company, Baltimore, Md. Fertilizers	10,231	May 1	23	1626
Patterson & Co., R. A., Richmond, Va. Plug-tobacco	10,096	Mar. 13	23	942
Peabody & Co., Henry W., Boston, Mass. Tools or implements for agricultural and mechanical purposes	9,989	Jan. 30	23	348
Peabody & Co., Henry W., Boston, Mass. Tools and implements for agricultural and mechanical purposes	10,661	Oct. 23	25	294
Pegram, Benjamin R., Jr., New York, N. Y. Flour	10,042	Feb. 13	23	544
Pegram, Benjamin R., Jr., New York, N. Y. Flour	10,043	Feb. 13	23	544
Pegram, Benjamin R., Jr., New York, N. Y. Flour	10,044	Feb. 13	23	544
Pegram, Benjamin R., Jr., New York, N. Y. Flour	10,045	Feb. 13	23	544
Pegram, Benjamin R., Jr., New York, N. Y. Flour	10,046	Feb. 13	23	544
Pegram, Benjamin R., Jr., New York, N. Y. Flour	10,047	Feb. 13	23	544
Pelzer Manufacturing Company, Pelzer, S. C. Cotton and woolen cloths	10,561	Aug. 28	24	802
Peninsular Stove Company, Detroit, Mich. Heating and cooking stoves and furnaces	10,059	Feb. 20	23	634
Perez, J. W., Mobile, Ala. Cigars	10,477	July 31	24	394
Perkins, Hazen H., Kewanee, Ill. Wagon end-gates	10,140	Mar. 27	23	1196
Pfau, J. Louis, Jr., Quincy, Ill. Soft-center steel	10,170	Apr. 10	23	1340
Pfingst, Doerhoefer & Co., Louisville, Ky. Tobacco	10,028	Feb. 6	23	440
Pierce, Henry L., Boston, Mass. Chocolate, broma, and cocoa	10,639	Oct. 16	25	196
Piesse & Lubin, London, England. Perfumery and perfumed articles for the toilet	10,807	Dec. 25	25	1194
Pingree & Smith, Detroit, Mich. Women's and children's boots, shoes, and slippers	10,773	Dec. 11	25	984
Pingree & Smith, Detroit, Mich. Women's and children's boots, shoes, and slippers	10,818	Dec. 25	25	1194
Pitts, William M., Thomson, Ga. Medicinal preparation for external and internal pain	10,088	Mar. 6	23	834
Plume & Atwood Manufacturing Company, Waterbury, Conn. Pins	10,436	July 17	24	208
Plume & Atwood Manufacturing Company, Waterbury, Conn. Pins	10,437	July 17	24	208
Plumly & Son, George W., Philadelphia, Pa. Paper boxes	10,654	Oct. 23	25	294
Pray, Mary E., New York, N. Y. Certain articles and preparations for treating and improving the finger-nails, feet, and complexion	10,326	June 5	23	2124
Prentice, William J., Allegheny City, and G. W. Hackett, Pittsburg, Pa. Cement, plaster, lime, coloring for mortars, and kaolin	10,274	May 15	23	1836
Price, C. H. & J., Salem, Mass. Ferrated hygienic wine	10,732	Nov. 20	25	702
Price, William B., Baltimore, Md. Calcimine	10,686	Oct. 30	25	398
Prot & Co., Felix, Paris, France. Perfumery and toilet articles	10,419	July 10	24	104
Prud'hommé, R., Ottawa, Ontario, Canada. Pomades	10,349	June 12	23	2242
Quinn, Andrew K., Newport, R. I. Cod-liver-oil cream	9,922	Jan. 2	23	2
Quinlan, John, Denver, Colo. Liniment for man and beast	10,590	Sept. 18	24	1094

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Railton, William H., Chicago, Ill. Table-sauces	10,716	Nov. 13	25	604
Ransom, Frank A., Dunellen, N. J. Dyes	10,283	May 22	23	1930
Ransom, William H. (See Hoffman and Ransom.)				
Rathbone, Clarence, Albany, N. Y. Cooking-stoves, ranges, furnaces, and heaters	10,764	Dec. 4	25	886
Raynaud, A., Levallois-Perret, France. Perfumery, creams, dentifrice, hair-oils, and analogous articles used in toilet preparations	10,352	June 12	23	2242
Reach & Co., A. J., Philadelphia, Pa. Base-balls	10,662	Oct. 23	25	294
Reach & Co., A. J., Philadelphia, Pa. Base-ball bats	10,663	Oct. 23	25	294
Red C Oil Manufacturing Company, Baltimore, Md. Burning-oil	9,952	Jan. 9	23	96
Reessing, Herman, New York, N. Y. Various preparations and compounds of fish	10,284	May 22	23	1930
Regester & Sons, J., Baltimore, Md. Gage-cocks	10,251	May 1	23	1626
Reich, Lorenz, New York, N. Y. Hungarian wines	10,316	May 29	23	2036
Reich, Lorenz, New York, N. Y. Hungarian wines and brandies	10,317	May 29	23	2036
Reid, Murdoch & Fischer, Chicago, Ill. Canned fruits and vegetables	10,359	June 19	23	2330
Reid, Murdoch & Fischer, Chicago, Ill. Canned fruits and vegetables	10,465	July 24	24	306
Reitlinger & Co., A. H., New York, N. Y. Kid-leather	10,550	Aug. 28	24	802
Remington, Robert K., Fall River, Mass. Lubricating material	10,438	July 17	24	208
Republic Iron Works, (limited,) Pittsburg, Pa. Sheet metal	10,767	Dec. 4	25	886
Republic Iron Works, (limited,) Pittsburg, Pa. Sheet iron and steel	10,790	Dec. 18	25	1082
Revel, Père & Fils, F., Lyons, France. Parasols and umbrellas	10,376	June 26	23	2416
Richtering & Co., Augustus, Havana, Cuba. Cigars	10,791	Dec. 18	25	1082
Ridenour, Baker & Co., Kansas City, Mo. Baking-powders	10,197	Apr. 17	23	1450
Robbins & Ellicott, Buffalo, N. Y. Cigars	10,808	Dec. 25	25	1194
Roberson, Harry F., Albany, N. Y. Remedy for catarrh, cold in the head and throat	10,360	June 19	23	2330
Robinson, Charles P. (See Kibbe and Robinson.)				
Roederer & Co., Théophile, Rheims, France. Champagne-wine	10,532	Aug. 21	24	708
Roederer & Co., Théophile, Rheims, France. Champagne-wine	10,533	Aug. 21	24	708
Roederer & Co., Théophile, Rheims, France. Champagne-wine	10,534	Aug. 21	24	708
Root, Leonard S., New York, N. Y. Laundry-blue	9,961	Jan. 16	23	196
Rose & Co., L., London, England. Various preparations of lime-juice	9,965	Jan. 16	23	196
Rosenstein & Co., Louis, New York, N. Y. Certain mixture for bird-food	10,439	July 17	24	208
Rosenzi, Enrico, Bridgeton, N. J. Molded articles to resemble glass, such as tiles, plaques, hearths, table-tops, &c	10,381	June 26	23	2416
Ross, Turner & Co., Boston, Mass. Thread, twine, and cord	10,361	June 19	23	2330
Rothschild Brothers & Co., New York, N. Y. Boot and shoe blacking	10,574	Sept. 4	24	904
Rouyer, Guillet & Co., Saintes, France. Brandy	10,555	Aug. 28	24	802
Rowe, H. E., Bucyrus, Ohio. Fire and water proof paint	10,461	July 24	24	306
Rumford Chemical Works, Providence, R. I. Baking-powder	10,535	Aug. 21	21	708
Rumford Chemical Works, Providence, R. I. Self-raising bread preparation	10,536	Aug. 21	24	708
Runkel Brothers, New York, N. Y. Chocolate and cocoa	10,285	May 22	23	1930
Ruppert, Jacob, New York, N. Y. Lager-beer	10,004	Jan. 30	23	348
Russell and Company, Massillon, Ohio. Agricultural machinery	10,579	Sept. 11	24	998
Ryder, S. Oscar. (See De Castro & Co., D., assignors.)				
Ryder, S. Oscar, New York, N. Y. Wheat-flour	9,964	Jan. 16	23	196
Sachs, Pruden & Co., Dayton, Ohio. Ginger-ale	10,092	Mar. 6	23	834
Sachs, Pruden & Co., Dayton, Ohio. Ginger-ale	10,093	Mar. 6	23	834
Sachs, Pruden & Co., Dayton, Ohio. Ginger-ale	10,190	Apr. 17	23	1450
Saint Louis Paint Manufacturing Company, St. Louis, Mo. Paints, wood-fillers, clays, ochers, &c	10,048	Feb. 13	23	544
Sanderson, A., Havana, Cuba. Cigarettes and cut tobacco	10,636	Oct. 16	25	196
Sanderson & Co., Havana, Cuba. Cigarettes and cut tobacco	10,627	Oct. 9	25	98
Sanderson & Co., Havana, Cuba. Cigarettes and cut tobacco	10,664	Oct. 23	25	294
Sanford & Sons, S. T. W., New York, N. Y. Proprietary medicines	10,368	June 26	23	2416
Sauer, John, Evansville, Ind. Cigars	10,049	Feb. 13	23	544
Sawyer, Howard M., West Medford, Mass. Water-proof jackets, pants, and coats	10,105	Mar. 13	23	942
Scales, Hamilton, Winston, N. C. Plug chewing and smoking tobacco	10,440	July 17	24	208
Schimmel & Co., J. O., Philadelphia, Pa. Canned provisions	10,151	Mar. 27	23	1126
Schofield, Mason & Co., Philadelphia, Pa. Body-brussels and Wilton carpets and rugs	10,400	July 3	24	2
Schover & Co., E. A., Chicago, Ill. Teas	10,010	Jan. 30	23	348
Schuh, Paul G., Cairo, Ill. Liniment	10,514	Aug. 14	24	606
Schultz & Co., Zanesville, Ohio. Laundry and toilet soap	9,990	Jan. 30	23	348
Schultz & Co., Zanesville, Ohio. Laundry and toilet soap	10,324	May 29	23	2036
Schwartz & Co., George S., Louisville, Ky. Plug and smoking tobacco	10,382	June 26	23	2416
Schweer, H. F., Cape Girardeau, Mo. Remedy for epilepsy	10,755	Dec. 4	25	886
Schwob, Adolphe, New York, N. Y. Watches	10,301	May 22	23	1930
Schwob, Adolphe, New York, N. Y. Watches	10,592	Sept. 18	24	1094
Schwob, Adolphe, New York, N. Y. Watches	10,593	Sept. 18	24	1094
Schwob, Adolphe, New York, N. Y. Watches	10,594	Sept. 18	24	1094
Scoggins, Samuel R., Baltimore, Md. Medicines for the cure of coughs, colds, and diseases of the throat and lungs	9,982	Jan. 23	23	274
Scott Bros., Binghamton, N. Y. Havana cigars	10,404	July 10	24	104
Seabury, Frederick W., Providence, R. I. Articles used in the manufacture of artificial teeth	10,605	Sept. 25	24	1180
Sears & Co., Henry, Chicago, Ill. Razors	9,946	Jan. 9	23	96
Seeley & Co., I. B., Philadelphia, Pa. Hernial truss	9,924	Jan. 2	23	2
Seligman, Barah, New York, N. Y. Whalebone	10,097	Mar. 13	23	942
Sellers & Co., R. E., Pittsburg, Pa. Proprietary medicine	10,643	Oct. 16	25	196
Senter, George F., New York, N. Y. Certain composition of petroleum and mustard-seed oil for medicinal and other uses	10,563	Aug. 28	24	802
Shaen & Christie, Manchester, England, and New York, N. Y. Velveteen	9,991	Jan. 30	23	348
Shaen & Fithian, New York, N. Y. Velvets, velveteens, velvetas, plushes, and similar goods	10,122	Mar. 20	23	1036
Shaen & Fithian, New York, N. Y. Dress silk goods	10,247	May 1	23	1626
Shaen & Fithian, New York, N. Y. Black and colored silks	10,736	Nov. 20	25	702
Shattuck, Jane A., Utica, N. Y. Hair-restoratives	9,966	Jan. 16	23	196
Shaver, I. Calvin, Caldwell, N. J. Wild cherry, rock, and rye	10,171	Apr. 10	23	1340
Shirley, Frederick S., New Bedford, Mass. Table-ware and fancy articles of glass	10,011	Jan. 30	23	348
Shuman & Co., A., Boston, Mass. Boys' clothing	10,637	Oct. 16	25	196
Shuman & Co., A., Boston, Mass. Boys' clothing	10,638	Oct. 16	25	196
Sicre, Alban, Paris, France. Medical tea	10,106	Mar. 13	23	942
Siegel Brothers, Durham, N. C. Cigars, cigarettes, and smoking and chewing tobacco	10,673	Oct. 23	25	294
Sieverd & Bro., F. H., Baltimore, Md. Hermetically-sealed vegetables, fruits, oysters, fish, meats, &c	10,195	Apr. 17	23	1450
Simmon, Karl, St. Paul, Minn. Vermin-destroyer	9,926	Jan. 2	23	2
Simmonds, George, San Francisco, Cal. Compounded extracts of tropical fruits	10,799	Dec. 18	25	1082
Simmons & Co., C. F., St. Louis, Mo. Remedy for chills, neuralgia, &c	10,562	Aug. 28	24	802
Simonds Manufacturing Company, Fitchburg, Mass. Saws	10,050	Feb. 13	23	544

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Simonson, Albert, New York, N. Y. Medicated toilet compound	10,774	Dec. 11	25	984
Sizer, Robert F. (See Pace and Sizer.)				
Skinner & Son, William, New York, N. Y. Silk and mohair braids and silk threads	10,405	July 10	24	104
Slate, Dwight, Hartford, Conn. Drilling-machines	9,938	Jan. 9	23	96
Slauson & Co., A., New York, N. Y. Lozenges	10,809	Dec. 25	25	1194
Slauson & Co., A., New York, N. Y. Lozenges	10,810	Dec. 25	25	1194
Slauson & Co., A., New York, N. Y. Lozenges	10,811	Dec. 25	25	1194
Slauson & Co., A., New York, N. Y. Lozenges	10,819	Dec. 25	25	1194
Slauson & Co., A., New York, N. Y. Lozenges	10,820	Dec. 25	25	1194
Slauson & Co., A., New York, N. Y. Confectionery	10,821	Dec. 25	25	1194
Smith & Co., C. B., Jr., Binghamton, N. Y. Cigars	10,496	Aug. 7	24	500
Smith Company, J. Barton, Philadelphia, Pa. Buck-saws	9,933	Jan. 9	23	95
Smith, George H. (See Hedges and Smith.)				
Smith, Hanway & Co., Baltimore, Md. Baking-powder	10,572	Sept. 4	24	904
Smith & Son, James, Astwood Bank, county of Worcester, England. Sewing-needles	9,931	Jan. 2	23	2
Smith & Son, James, Astwood Bank, county of Worcester, England. Sewing-needles	10,066	Feb. 20	23	634
Snyder, Henry, Jr., Brooklyn, N. Y. Whisky	10,777	Dec. 11	25	984
Société Générale de Produits Alimentaires, Paris, France. Butter	10,812	Dec. 25	25	1194
Société Générale de Produits Alimentaires, Paris, France. Butter	10,813	Dec. 25	25	1194
Solomon & Bros., Gustav, New York, N. Y. Havana leaf-tobacco	10,591	Sept. 18	24	1094
Soubiran & Co., Paris, France. Pomatum, scented liquids, powders, hair-oils, and cosmetics	10,341	June 5	23	2124
Southern Calendar Clock Company, St. Louis, Mo. Clocks	10,497	Aug. 7	24	500
Spaulding & Merrick, Chicago, Ill., and Louisville, Ky. Snuff, cigars, cigarettes, fine-cut chewing-tobacco, and plug and smoking tobacco	10,441	July 17	24	208
Spaulding & Merrick, Chicago, Ill., and Louisville, Ky. Snuff, cigars, cigarettes, fine-cut chewing-tobacco, and plug and smoking tobacco	10,442	July 17	24	208
Spaulding & Merrick, Chicago, Ill., and Louisville, Ky. All manufactured tobacco	10,462	July 24	24	306
Spear, Giles H., Milwaukee, Wis. Fine-cut and plug chewing-tobacco, smoking-tobacco, cigars, and cigarettes	10,259	May 8	23	1736
Sproat's Syrup of Tar Co., Taunton, Mass. Cough-mixture	10,644	Oct. 16	25	196
Squire, Alfred, Cincinnati, Ohio. Cornets	10,489	Aug. 7	24	500
Stanard & Co., E. O., St. Louis, Mo. Wheat-flour	9,947	Jan. 9	23	96
Stanard & Co., E. O., St. Louis, Mo. Wheat-flour	10,397	July 3	24	2
Stanard & Co., E. O., St. Louis, Mo. Wheat-flour	10,443	July 17	24	208
Starkey, George R., and G. E. Palen, Philadelphia, Pa. Compound oxygen and inhaler	10,449	July 17	24	208
Steane, Edmund G., Philadelphia, Pa. Smoking-tobacco, chewing-tobacco, and cigarettes	10,172	Apr. 10	23	1340
Stearns & Co., Frederick, Detroit, Mich. Remedy for private diseases	10,756	Dec. 4	25	886
Stearns & Co., John N., New York, N. Y. Sashes, scarfs, and trimmings	10,232	May 1	23	1626
Steck, George, New York, N. Y. Diminutive upright pianos	10,674	Oct. 23	25	294
Stern & Co., B., Niedermendig and Cologne, Germany. Mineral water	10,696	Nov. 6	25	506
Stevens, Frederick S., Bridgeport, Conn. Cough-medicine	10,327	June 5	23	2124
Stevens, Henry R., Boston, Mass. Medical compound for the cure of pain and inflammation	10,221	Apr. 24	23	1532
Stevens, Henry R., Boston, Mass. Medical compound for the cure of pain and inflammation	10,222	Apr. 24	23	1532
Stevens, Henry R., Boston, Mass. Medicinal compound for the cure of scrofula and the like diseases	10,468	July 24	24	306
Stevenson, J. F., Allegheny, Pa. Preparation for softening and beautifying the hands and face	10,022	Feb. 6	23	440
St. Louis Bolt and Iron Company, St. Louis, Mo. Railway-rails and railway-fastenings	10,079	Mar. 6	23	834
Stoddard Lock Company, New York, N. Y. Domestic filters	10,149	Mar. 27	23	1126
Stone, Yelverton P., Baltimore, Md. Cigars	10,792	Dec. 18	25	1082
Straight Line Engine Company, Syracuse, N. Y. Steam-engines	10,248	May 1	23	1626
Strasburger & Co., Louis, New York, N. Y. Watches	10,315	May 29	23	2036
Strasser & Co., M., Albany, N. Y. Cigars, cigarettes, and snuff	9,948	Jan. 9	23	96
Suez, (The Firm of,) Paris, France. Dentifrices	10,473	July 31	24	394
Suez, (The Firm of,) Paris, France. Dentifrices	10,474	July 31	24	394
Summit City Soap Company, Fort Wayne, Ind. Hard soap	10,276	May 15	23	1836
Sweet, B. F. & H. L., Fond du Lac, Wis. Sleds and sleighs	9,992	Jan. 30	23	348
Swift Specific Company, Atlanta, Ga. Internal remedies	10,144	Mar. 27	23	1126
Taylor Manufacturing Company, St. Louis, Mo. Cigars	10,705	Nov. 6	25	506
Taylor, Walter A., Atlanta, Ga. Internal remedies	10,503	Aug. 14	24	606
Tellado, Gilberga & Co., New York, N. Y. Flour	10,714	Nov. 13	25	604
Tellado, Gilberga & Co., New York, N. Y. Flour	10,715	Nov. 13	25	604
Tetlow & Bro., Henry, Philadelphia, Pa. Perfumery	10,107	Mar. 13	23	942
Tetzner & Sohn, C. A., Schweizerthal, Germany. Cotton and half-woolen yarns	10,401	July 3	24	2
Thompson, Mary E., New York, N. Y. Hair-waves	10,768	Dec. 4	25	886
Thomson, Richard S., Buffalo, N. Y. Tooth-powder	10,619	Oct. 2	25	2
Thorn Wire Hedge Company, Chicago, Ill. Barbed-wire fencing	10,233	May 1	23	1626
Tibbe, Son & Co., H., Washington, Mo. Corn-cob pipes	9,975	Jan. 23	23	274
Tibbits, John B., Hoosac, N. Y. Dynamo and magneto electric machines	10,275	May 15	23	1836
Tilden & Co., New York, N. Y. Medicinal preparation	10,504	Aug. 14	24	606
Tillmann & Bendel, San Francisco, Cal. Preserved fruits, jellies, jams, and canned vegetables	10,390	July 3	24	2
Tillmann & Bendel, San Francisco, Cal. Canned or preserved oysters and fish	10,391	July 3	24	2
Tillmann & Bendel, San Francisco, Cal. Petroleum or kerosene oil	10,392	July 3	24	2
Time Telegraph Company, New York, N. Y. Mechanism used as electrical time-indicators	9,977	Jan. 23	23	274
Tinsley Tobacco Manufacturing Company, Addison, Louisiana, Mo. Tobacco	10,249	May 1	23	1626
Tinsley Tobacco Manufacturing Company, Addison, Louisiana, Mo. Manufactured tobacco	10,277	May 22	23	1930
Tinsley Tobacco Manufacturing Company, Addison, Louisiana, Mo. Tobacco	10,570	Sept. 4	24	904
Tobin, J. J. & W. H., Austin, Tex. Remedy for diseases of the liver	10,350	June 12	23	2242
Tomb, Harry. (See Wheeler, Tomb, and Yingling.)				
Tompkins, Samuel E., Newark, N. J. Certain medicinal preparation for horses, cattle, and other animals	10,128	Mar. 20	23	1036
Tonk & Bro., William, New York, N. Y. Harmonicas	10,541	Aug. 21	24	708
Topliff, Cyrus L., New York, N. Y. Medicine for constipation	10,793	Dec. 18	25	1082
Towle, Carle & Co., Chicago, Ill. Cigars, cigarettes, and smoking-tobacco	10,060	Feb. 20	23	634
Twitchell, Champlin & Co., Portland, Me. Specific for neuralgia, headache, and the like diseases	10,444	July 17	24	208
Underwood, William J., Belmont, Mass. Deviled entrements	10,051	Feb. 13	23	544
Unexcelled Fireworks Company, New York, N. Y. Fire-works	10,814	Dec. 25	25	1194
Union Metallic Cartridge Company, Bridgeport, Conn. Pistol or gun caps and cartridges, primers, shells, and wads	10,717	Nov. 13	25	604
Union Metallic Cartridge Company, Bridgeport, Conn. Pistol and gun caps and cartridges, primers, shells, and wads	10,733	Nov. 20	25	702
Union Metallic Cartridge Company, Bridgeport, Conn. Pistol and gun caps and cartridges, primers, shells, and wads	10,748	Nov. 27	25	790
Union Tubing Company, New York, N. Y. Tubing (of rubber or gas-tight composition)	10,115	Mar. 13	23	942
Van Gundy, Constant & Co., Burrton, Kans. Flour	10,718	Nov. 13	25	604
Van Keuren, J. A. & L. N., Bridgeport, Conn. Water-proof preservative blacking	10,074	Feb. 27	23	744

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Vaughn, Thomas L., Winston, N. C. Plug chewing and smoking tobacco	10,697	Nov. 6	25	506
Venable & Co., Samuel W., Petersburg, Va. Plug-tobacco	10,575	Sept. 4	24	904
Verhage, Henry, Cincinnati, Ohio. Canned and pickled meats	10,129	Mar. 20	23	1036
Vogeler Company, Charles A., Baltimore, Md. Liniment for internal and external use	10,116	Mar. 13	23	942
Vogeler Company, Charles A., Baltimore, Md. Medicine for external and internal use	10,325	June 5	23	2123
Vogeler Company, Charles A., Baltimore, Md. Liniment for external and internal use	10,719	Nov. 13	25	604
Vrau & Co., Ph., Lille, France. Linen thread	10,515	Aug. 14	24	606
Vulcan Tändsticksfabriks Aktiebolaget, Gothenburg, Sweden, and New York, N. Y. Safety-match	10,351	June 12	23	2242
Wakeman & Co., C. E., Pontiac, Mich. Fulled knit woolen goods	10,362	June 19	23	2330
Walters & Co., Edwin, Baltimore, Md. Rye whisky	9,932	Jan. 2	23	2
Wardell, Gunster & Baker, Denver, Colo. Butter	10,132	Mar. 20	23	1036
Warner, Hulbert H., Rochester, N. Y. Certain proprietary medicine	10,645	Oct. 16	25	196
Warner, Hulbert H., Rochester, N. Y. Bitters	10,687	Oct. 30	25	398
Warner, Hulbert H., Rochester, N. Y. Tonic bitters	10,688	Oct. 30	25	398
Warner, Hulbert H., Rochester, N. Y. Tonic bitters	10,689	Oct. 30	25	398
Washoe Manufacturing Company, Newark, N. J. Picks and other adz-eye tools	10,775	Dec. 11	25	984
Watson, Calvin H., New York, N. Y. Manufactured or artificial butter	10,757	Dec. 4	25	886
Watson & Co., L. S., Leicester, Mass. Cards for carding cotton	9,925	Jan. 2	23	2
Way, Pennock M., Thurlow, Pa. Certain proprietary medicines	10,690	Oct. 30	25	398
Weber, C. W. B., Brooklyn, N. Y. Starch	10,498	Aug. 7	24	500
Wedgwood & Sons, Josiah, Etruria, Stoke-upon-Trent, England. Pottery of all kinds	10,537	Aug. 21	24	708
Weideman, Holmes & Co., Cleveland, Ohio. Kelley's Island grape-brandy	10,052	Feb. 13	23	544
Weidlich, Franz O., Brunndöbra-Klingenthal, Saxony, Germany. Accordions	10,234	May 1	23	1626
Wells, Richardson & Co., Burlington, Vt. Dyes	10,072	Feb. 27	23	744
West India Manufacturing Company, New York, N. Y. Perfumery and toilet preparations	10,053	Feb. 13	23	544
West India Manufacturing Company, New York, N. Y. Perfumery and toilet preparations	10,054	Feb. 13	23	544
West India Manufacturing Company, New York, N. Y. Perfumery and toilet preparations	10,055	Feb. 13	23	544
West India Manufacturing Company, New York, N. Y. Perfumery and toilet articles	10,126	Mar. 20	23	1036
West India Manufacturing Company, New York, N. Y. Perfumery and toilet articles	10,127	Mar. 20	23	1036
West India Manufacturing Company, New York, N. Y. Cologne water, essential oils, extracts, essences, tonics, and articles of this class	10,463	July 24	24	306
Wheeler, Henry H., H. Tomb, and G. S. Yingling, Tiffin, Ohio. Solidified soap	10,706	Nov. 6	25	506
Wiederer, Peter, New York, N. Y. Mirrors	10,089	Mar. 6	23	834
Wilkens & Co., H., Baltimore, Md. Smoking-tobacco, chewing-tobacco, snuff, and cigarettes	10,734	Nov. 20	25	702
Wilkens & Co., H., Baltimore, Md. Smoking and chewing tobacco, snuff, and cigarettes	10,739	Nov. 27	25	790
Williams & Co., C. E., Stockton, Cal. Sheep-medicine	10,646	Oct. 16	25	196
Williams & Co., Thomas C., Richmond, Va. Manufactured tobacco and cigars	10,758	Dec. 4	25	886
Williams & Diamond, Flushing, N. Y. Drop-forgings and articles made therefrom	10,235	May 1	23	1626
Williams, John R., Stockton, Cal. Certain medical preparations for horses	10,518	Aug. 14	24	606
Williams, John R., Stockton, Cal. Cough-sirup	10,606	Sept. 25	24	1180
Williamsburgh Brewing Company, (limited,) Brooklyn, N. Y. Lager-beer	10,012	Jan. 30	23	348
Wilson Chemical Company, Kingston, Ontario, Canada. Bleaching and dyeing compounds	10,363	June 19	23	2330
Wilson & Son, Win., Philadelphia, Pa. Sterling-silver wares	9,949	Jan. 9	23	96
Wilson & Son, Win., Philadelphia, Pa Electro-plated wares	9,950	Jan. 9	23	96
Wilson, Walter G., Philadelphia, Pa. Biscuits	10,027	Feb. 6	23	440
Wilson, Walter G., Philadelphia, Pa. Biscuits	10,152	Mar. 27	23	1126
Wilson, Walter G., Philadelphia, Pa. Biscuits	10,153	Mar. 27	23	1126
Wilson, Walter G., Philadelphia, Pa. Biscuits	10,671	Oct. 23	25	294
Winchell Manufacturing Company, George D., Cincinnati, Ohio. Certain articles of tinware	10,815	Dec. 25	25	1194
Winfree & Loyd, Lynchburg, Va. Plug-tobacco	10,542	Aug. 21	24	708
Winfree & Loyd, Lynchburg, Va. Chewing-tobacco	10,543	Aug. 21	24	708
Winfree & Loyd, Lynchburg, Va. Plug-tobacco	10,544	Aug. 21	24	708
Winger, Samuel, Sturgis, Mich. Hard soap	10,672	Oct. 23	25	294
Wiweke, Julius, Albany, N. Y. Grease-extractors	10,794	Dec. 18	25	1082
Woelfel & Linke, Allegheny, Pa. Harness-leather	9,927	Jan. 2	23	2
Wolff & Reessing, New York, N. Y. Mustard	10,108	Mar. 13	23	942
Woodcock, William H., New York, N. Y. Medical and chemical preparations	10,580	Sept. 11	24	998
World's Dispensary Medical Association, Buffalo, N. Y. Certain medical compounds	10,191	Apr. 17	23	1450
World's Medicine Company of Buffalo, New York, Buffalo, N. Y. Remedies in both dry and liquid form for the cure of internal and external diseases	10,286	May 22	23	1930
Wray, Charles H. (See Johnson and Wray.)				
Yale, Charles A., Wellsborough, Pa. Cigars	10,029	Feb. 6	23	440
Yingling, George S. (See Myers, Hayford, and Yingling.)				
Yingling, George S. (See Wheeler, Tomb, and Yingling.)				
Zeller & Co., Richmond, Ind. Butter-crackers	10,776	Dec. 11	25	984

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Name, residence, and title.	No.	Date.	Official Gazette. Volume.	Page.
Abner, Christian, Washington, D. C. "The New P. O. D." (for Cigars)	3,112	Apr. 10	23	1340
Ahlstrom & Thomson, New York, N. Y. "The Lion Brand" (for Evaporated Milk)	3,136	Apr. 10	23	1340
Aitken, Daniel B., Philadelphia, Pa. "Fasceleen" (for a Toilet Lotion)	3,763	Dec. 18	25	1082
Alabastine Company, New York, N. Y. "The only Durable Wall Finish Alabastine"	2,909	Jan. 16	23	196
Allard & Burt, Enosburg Falls, Vt. "Allard's Black Oil." (for a "Remedy for Man or Beast")	3,326	July 3	24	2
Allen, C. S., New York, N. Y. "American Dyspepthera"	3,085	Mar. 20	23	1036
Allen, William A., Jersey City, N. J. "W. A. Allen's Improved Bundle Kindling Wood"	3,745	Dec. 11	25	984
Allen, William A., Jersey City, N. J. "W. A. Allen's Improved Bundle Kindling Wood"	3,746	Dec. 11	25	984
American Compressed Yeast Company, New York, N. Y. "The American" (For Compressed Yeast)	2,906	Jan. 9	23	96
American Oak Leather Company, Cincinnati, Ohio. "Nonporous," (for Leather Belting)	2,885	Jan. 2	23	2
American Pharmaceutical Manufacturing Company, Philadelphia, Pa. "Solution Ferrous Malate".	2,938	Jan. 30	23	348
Anderson, William J. (See Küpper and Anderson.)				
Angle, Charles M., Richmond, Va. "Try Angle Cigar"	3,556	Oct. 2	25	2
Arlington Mills, Boston, Mass. "Arlington Mills," (for Woolen or Worsted Dress Goods)	3,458	Aug. 21	24	708
Arnold Medical Corporation, Dr. Seth, Woonsocket, R. I. "Dr. Seth Arnold's Cough Killer"	2,982	Feb. 13	23	544
Arnold & Weaver, Providence, R. I. "Germania Tube Ointment"	3,744	Dec. 11	25	984
Ashley, J. J., Brooklyn, N. Y. "Ashley's Tonic and Constipation Cure"	3,086	Mar. 20	23	1036
Atlee, William Y. (See Merchant & Co., S. L., assignor.)				
Ausman & Witherstine, Herkimer, N. Y. "Victor Syrup." (for a Medical Remedy)	3,425	Aug. 14	24	606
Ausman & Witherstine, Herkimer, N. Y. "Victor Ointment"	3,426	Aug. 14	24	606
Austin & Sons, Thomas, Brooklyn, N. Y. "Brighton Sauce," (for Table Sauce)	3,601	Oct. 23	25	294
Austin, William W., Lowell, Mass. "Chemical Parlor Combination." ("For Burning Fluid")	2,949	Feb. 6	23	440
Axt, Ferdinand, Washington, D. C. "Dr. Ferd. Axt's infallible Abolition Tooth Ache Cure"	3,055	Mar. 13	23	942
Bailey, Harry, Philadelphia, Pa. "The Seven Long-Haired Sutherland Sisters' Hair Restorer"	3,184	May 8	23	1736
Baker, James M. (See Gwinn and Baker.)				
Barl, Joseph, Chicago, Ill. "Medicinal Temperance Drink"	3,557	Oct. 2	25	2
Barker & Co., J. H., New York, N. Y. "The Black Ground, Rock Candy, Label"	3,427	Aug. 14	24	606
Barnett, James P., Brooklyn, N. Y. "Lowe's Cresylic Stock Remedy," (for Diseases of Animals)	2,927	Jan. 23	23	274
Barnett, James P., Brooklyn, N. Y. "Lowe's Jack Rabbit Sheep Dip"	3,087	Mar. 20	23	1036
Basford, James L., Boston, Mass. "The Little Sampson," (for a Medicine)	3,467	Aug. 28	24	802
Basford, James L., Boston, Mass. "Consumption. Basford's Aquarian Balm" (for a Medical Preparation)	3,703	Nov. 27	25	790
Bassett, Milton H., New Britain, Conn. "Bassett's Lock Marker"	3,704	Nov. 27	25	790
Bayler, Charles A., York, Pa. "New York Cigar Factory"	3,521	Sept. 18	24	1094
Bebler, Julius B., Springfield, Mass. "Garfield Malaria Antidote"	3,479	Sept. 4	24	904
Bechtel, William H., Brooklyn, N. Y. "Linimento Excelsior De Bechtel"	3,652	Nov. 6	25	506
Bedford, Augustus, and W. M. Rawson, Roxbury, Mass. "Digestine" (for a Medicine)	3,779	Dec. 25	25	1194
Beitman Bros., Kansas City, Mo. "B B B B" (for Cigars)	3,170	May 1	23	1626
Beitman Bros., Kansas City, Mo. "Famous" (for Cigars)	3,558	Oct. 2	25	2
Bell, Elizabeth H., Philadelphia, Pa. "The Great American Compound Oil of Gaultheria" (for a Medical Compound)	3,764	Dec. 18	25	1082
Bennison, Charles E. (See Bingham and Bennison.)				
Berman, Joseph, Cleveland, Ohio. "J. Berman's Anointine"	3,088	Mar. 20	23	1036
Best, Alcuin H., Savannah, Ga. "Best's New Process Amalgam." (For Dental Amalgam)	2,988	Feb. 20	23	634
Best Brewing Company, Philip, Milwaukee, Wis. "Select" (For Beer)	3,079	Mar. 13	23	942
Bewley & Draper, (limited,) Dublin, Ireland. "Bewley & Draper Dublin Ginger Ale"	3,099	Mar. 27	23	1126
Bidaman, Israel, Buffalo, N. Y. "Pilules for the People"	3,185	May 8	23	1736
Bilhuber, Ernst F., Brooklyn, N. Y. "Ehijos" (For Hardware)	2,989	Feb. 20	23	634
Bingham, Eugene P., and C. E. Bennison, Boston, Mass. "Purity, The New Disinfectant"	2,895	Jan. 9	23	96
Bishop, Henry, Baltimore, Md. "Bishop's Bird Dainties" (for Food for Birds)	3,250	June 5	23	2124
Bitting, Lewis W., Philadelphia, Pa. "Patrolman" (for Collars and Cuffs)	3,347	July 10	24	104
Blaker, G. C., Flemington, N. J. "Blaker's Rheumatic Relief"	2,918	Jan. 16	23	196
Bloom, Isidore. (See Haynes, Miller, and Bloom.)				
Bloom, M. E. (See Haynes, Miller, and Bloom.)				
Boullee, Joshua C., New York, N. Y. "The Electric Corn Cure"	3,311	June 26	23	2416
Bowker, Horace L., Boston, Mass. "Bowker's Government Standard Solution For testing Vinegar, Acetic Acid, &c."	3,056	Mar. 13	23	942
Bragdon, R. H., New York, N. Y. "Lustra Painting & Embroidering." (For Colors for Painting)	2,896	Jan. 9	23	96
Breakwell, Jane and S. J., Highwood, Ill. "Mrs. Breakwell's Sugar-Coated Anti-Bilious Tonic Pills".	2,966	Feb. 13	23	544
Breakwell, Samuel J. (See Breakwell, Jane and S. J.)				
Breitenbach, M. J., New York, N. Y. "20 Grain Mixture Injection"	3,585	Oct. 16	25	196
Breitwieser & Bros., H., Buffalo, N. Y. "Nickle Plate," (for Smoking Tobacco)	3,221	May 22	23	1930
Brill, W. H., Binghamton, N. Y. "Brill's Spermoline Sewing Machine Oil"	2,950	Feb. 6	23	440
Brinkman, Edward E., San Francisco, Cal. "The Ladies' Friend" (for a Medical Compound)	3,295	June 19	23	2330
Britton & Co., J. T., Long Branch, N. J. "Britton's Cholera Cure"	3,569	Oct. 9	25	98
Brooks & Co., E. J., New York, N. Y. "Brooks' Waterproof Stamping and Writing Ink"	3,277	June 12	23	2242
Brown, George S., Providence, R. I. "Special Absorbent Toweling"	2,919	Jan. 16	23	196
Brown, N. K., Burlington, Vt. "N. K. Brown's Iron and Quinine Bitters"	2,967	Feb. 13	23	544
Brown, Thompson & Co., Louisville, Ky. "Beech Fork" (for Whisky)	3,171	May 1	23	1626
Brown, Thompson & Co., Louisville, Ky. "Fox Mountain," (for Whisky)	3,172	May 1	23	1626
Brown, Thompson & Co., Louisville, Ky. "Old Forrester Bourbon"	3,173	May 1	23	1626
Browne, Clarence E., Boston, Mass. "Dresoline," (for Leather Dressing)	3,113	Apr. 10	23	1340
Browne, Clarence E., Boston, Mass. "Cutamollio," (for the skin)	3,114	Apr. 10	23	1340
Buchanan, Charles A., and R. J. Lindsay, Amsterdam, N. Y. "Brown's Champion Oil Leather Cleaner and Dresser"	3,397	July 31	24	394
Bucklen, Herbert E., Chicago, Ill. "Dr. Scheeler's Great German Cure for Consumption, Coughs, Colds, etc"	2,886	Jan. 2	23	2
Bucks, George N., Mattoon, Ill. "Self-Fastening" (for Tags)	3,765	Dec. 18	25	1082
Burchard, Melvin. (See Vincent and Burchard.)				
Burnside, George L., Bellows Falls, Vt. "Kean's Kidney and Back Plaster"	3,278	June 12	23	2242

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Burnside, George L., Bellows Falls, Vt. "Allen's Oriental Balm." (for a Cosmetic)	3,415	Aug. 7	24	500
Burroughs, Silas M., Medina, N. Y. "Hazeline" (for a Medical Preparation)	3,570	Oct. 9	25	98
Burroughs, Silas M., Medina, N. Y. "Eucalyptin," (for a Medicinal Preparation)	3,571	Oct. 9	25	98
Burroughs, Silas M., Medina, N. Y. "Eucalyptia" (for a Medicinal Preparation)	3,572	Oct. 9	25	98
Burroughs, Silas M., Medina, N. Y. "Essence Eucalypti" (for a Medicinal Preparation)	3,573	Oct. 9	25	98
Bury, Edward B., Washington, D. C. "Comp. Hydrastis Vaginal Pastiles"	3,651	Nov. 6	25	506
Buxton, Heins & Co., New York, N. Y. "American Sweet Oil"	3,159	Apr. 24	23	1532
Callahan, John, Lynn, Mass. "Alaska Catarrh Compound"	3,100	Mar. 27	23	1126
Campbell & Co., Coal Valley, Pa. "Eureka Salve"	3,251	June 5	23	2124
Campbell & Co., Coal Valley, Pa. "Sanative Salve"	3,252	June 5	23	2124
Cape Ann Oil Clothing Company, Baltimore, Md. "Cape Ann Whale Brand" (for Oil Clothing)	3,115	Apr. 10	23	1340
Carey & Co., New York, N. Y. "Pildoras del Doctor Carey"	3,780	Dec. 25	25	1194
Carr, Thomas H., Montgomery, Ala. "Montgomery Crackers"	3,574	Oct. 9	25	98
Carslake, William H., Philadelphia, Pa. "German Complexion or Skin Soap"	3,526	Sept. 18	24	1094
Case & Co., Horace G., Raynham, Mass. "Liquid Court Plaster"	3,057	Mar. 13	23	942
Cassady, Robert, Unionville, N. J. "Fern Bitters. The great Dyspepsia and Liver Remedy"	2,897	Jan. 9	23	96
Cassebeer, Henry A., Jr., New York, N. Y. "Cassebeer's Cocoa-Calisaya"	2,968	Feb. 13	23	544
Cassidy & Co., New York, N. Y. "Mandarin Chop" (for Tea)	3,186	May 8	23	1736
Cathers, Herman B., Philadelphia, Pa. "Ready Rising" (for Wheat, Corn, and Buckwheat Flour)	3,559	Oct. 2	25	2
Chadwick, Charles N., Brooklyn, N. Y. "The Pivot Corset"	3,327	July 3	24	2
Chagnon & Co., T., Brooklyn, N. Y. "The Golden Drops of Borneo." (For Chronic Coughs and Consumption)	2,898	Jan. 9	23	96
Chamberlain & Co., Des Moines, Iowa. "St. Patrick's Pills"	3,116	Apr. 10	23	1340
Chapman, Green & Co., Chicago, Ill. "Nitrogenized Iron"	3,160	Apr. 24	23	1532
Chapman, Green & Co., Chicago, Ill. "Metho-Glycerole of Bismuth and Hydrastia." (for a Medicine)	3,442	Aug. 14	24	606
Chapman, Smith & Co., Chicago, Ill. "Chicago Yeast Powder"	3,006	Feb. 27	23	744
Chandler, George W., Birmingham, Ohio. "Dr. E. E. Beeman's Worm Destroyer"	3,023	Mar. 6	23	834
Cheatham, Clement A., Dawson, Ga. "Excelsior Family Medicine"	3,781	Dec. 25	25	1194
Chegwidden, Thomas C., New York, N. Y. "Chegwidden's Right-Royal Mustard"	2,969	Feb. 13	23	544
Chown, Richard, Lima, Pa. "Chown's Sure Relief Liniment"	3,144	Apr. 17	23	1450
Clark & Brother, George A., New York, N. Y. "Clark's O. N. T. Spool Cotton"	3,174	May 1	23	1626
Clark, Melvin, Stockton, Cal. "Clark's Ague Cure"	3,117	Apr. 10	23	1340
Clark Thread Company, Newark, N. J. "Black O. N. T." (For Thread)	2,951	Feb. 6	23	440
Clark Thread Company, Newark, N. J. "White O. N. T." (For Thread)	2,952	Feb. 6	23	440
Clark Thread Company, Newark, N. J. "Jet Black O. N. T." (for Thread)	3,203	May 15	23	1836
Clark Thread Company, Newark, N. J. "Fast Black O. N. T." (for Thread)	3,204	May 15	23	1836
Clark, W. W., Chicago, Ill. "Dr. W. W. Clark's Oil of Arnica"	3,586	Oct. 16	25	196
Clausen & Son Brewing Company, H., New York, N. Y. "East India Pale Ale"	3,253	June 5	23	2124
Clausen & Son Brewing Company, H., New York, N. Y. "Extra American Stout"	3,254	June 5	23	2124
Clausen & Son Brewing Company, Henry, New York, N. Y. "Champagne Lager Beer"	3,312	June 26	23	2416
Clayton & Webb, Atlanta, Ga. "Mohawk Belle." (For Whisky)	3,069	Mar. 20	23	1036
Clymer & Co., C. W., Philadelphia, Pa. "Clymer's Celebrated Northern Horse and Cattle Powder"	3,255	June 5	23	2124
Coan, Henry, St. Louis, Mo. "The Chief" (for Cigars)	3,101	Mar. 27	23	1126
Coffin, Altemus & Co., Philadelphia, Pa. "Madison Staple Styles." (for Dry Goods)	3,766	Dec. 18	25	1082
Coffin, Altemus & Co., Philadelphia, Pa. "Madison Dress Styles" (for Dry Goods)	3,767	Dec. 18	25	1082
Cohen, Nathan H., Urbana, Ill. "Corn Belt," (for Cigars)	3,723	Dec. 4	25	886
Cole & Bro., Samuel H., Baltimore, Md. "Combination Brand" (For Corn and Tomatoes)	2,970	Feb. 13	23	544
Collins, Caroline L., Boston, Mass. "Madam Caroline's White Pine Beautifier for the Complexion"	3,480	Sept. 4	24	904
Conant, George A., Littleton, Mass. "Bluine" (for Bluing)	3,447	Aug. 21	24	708
Condie, James, New York, N. Y. "Compound Balsamic Glycerine"	2,928	Jan. 23	23	274
Cook & Bernheimer, New York, N. Y. "Rye and Lime"	3,058	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Rye, Lime and Wheat"	3,059	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Wheat, Rye and Lime"	3,060	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Lime, Rye and Wheat"	3,061	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Lime and Wheat"	3,062	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Wheat and Lime"	3,063	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Rye, Wheat and Lime"	3,064	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Rye and Wheat"	3,065	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Lime and Rye"	3,066	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Wheat and Rye"	3,067	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Wheat, Lime and Rye"	3,068	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Lime, Wheat and Rye"	3,069	Mar. 13	23	942
Cook & Bernheimer, New York, N. Y. "Sunsmile" (For a Medicinal Preparation)	3,090	Mar. 20	23	1036
Cook & Bernheimer, New York, N. Y. "American Cocktail." (for Beverages)	3,279	June 12	23	2242
Cook & Bernheimer, New York, N. Y. "Chamomile, Rock and Rye" (for a Medicinal Preparation)	3,602	Oct. 23	25	294
Cook & Bernheimer, New York, N. Y. "Rock, Rye and Chamomile" (for a Medicinal Preparation)	3,603	Oct. 23	25	294
Cook & Bernheimer, New York, N. Y. "Rye and Chamomile" (for a Medicinal Preparation)	3,604	Oct. 23	25	294
Cook & Bernheimer, New York, N. Y. "Rye, Rock and Chamomile" (for a Medicinal Preparation)	3,605	Oct. 23	25	294
Cook & Bernheimer, New York, N. Y. "Rye, Chamomile and Rock" (for a Medicinal Preparation)	3,606	Oct. 23	25	294
Cook & Bernheimer, New York, N. Y. "Rock and Chamomile" (for a Medicinal Preparation)	3,607	Oct. 23	25	294
Cook & Bernheimer, New York, N. Y. "Rock, Chamomile and Rye" (for a Medicinal Preparation)	3,608	Oct. 23	25	294
Cook & Bernheimer, New York, N. Y. "Chamomile and Rock" (for a Medicinal Preparation)	3,609	Oct. 23	25	294
Cook & Bernheimer, New York, N. Y. "Chamomile Rock and Rye" (for a Medicinal Preparation)	3,610	Oct. 23	25	294
Cook & Bernheimer, New York, N. Y. "Chamomile and Rye" (for a Medicinal Preparation)	3,611	Oct. 23	25	294
Cook & Bernheimer, New York, N. Y. "Chamomile, Rye and Rock" (for a Medicinal Preparation)	3,612	Oct. 23	25	294
Cook & Co., E. N., Buffalo, N. Y. "Golden Grain Whiskey"	3,387	July 24	24	306
Cook, Edward F., Stamford, Conn. "Manhattan Blood Guano"	3,007	Feb. 27	23	744
Cooper, Madison, Evans Mills, N. Y. "American Stilton" (for Cheese)	3,540	Sept. 25	24	1180
Cooper, Solomon M., Philadelphia, Pa. "Gingermint" (for Medicine)	3,481	Sept. 4	24	904
Cooper, Solomon M., Philadelphia, Pa. "German Cough Remedy"	3,482	Sept. 4	24	904
Cooper's Local Assembly, No. 1742, Knights of Labor, Rochester, N. Y. "Union Made Package," (for use on Barrels, Kegs & all kinds of Cooperage)	2,920	Jan. 16	23	196
Corey, Medad S., Hamlet, N. Y. "The Eureka Pile Ointment"	3,575	Oct. 9	25	98
Corle Cracker and Confectionery Company, Kansas City, Mo. "Corle Cracker and Confectionery Co., Kansas City"	3,724	Dec. 4	25	886
Cornwall & Brother, Louisville, Ky. "Old Soap"	3,118	Apr. 10	23	1340
Corwin, T. L., Marathon, N. Y. "Jersey Butter Color"	3,175	May 1	23	1626
Coutant, Gilbert, Poughkeepsie, N. Y. "Coutant's Ague Cure"	3,373	July 17	24	208
Cronin, Cornelius J., Glens Falls, N. Y. "Cronin's Egyptian Magnetic Strengthening Plaster"	3,705	Nov. 27	25	790
Curtice, Grovenor A., Hopkinton, N. H. "The Merchant's Stock Label." (For Woven Fibrous Goods)	2,900	Jan. 9	23	96
Danhof, John J., Grand Haven, Mich. "Danhof's Infallible Liver and Kidney Remedy"	3,348	July 10	24	104
Dare, James B., Salem, N. J. "Dare's Indian Pulmonic Syrup"	3,256	June 5	23	2124

Alphabetical list of registrants of labels — Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Darley, George B., East Orange, N. J. "Triangle Brand," (for Extracts and Essences)	3,448	Aug. 21	24	708
Davenport, A. M. V., Philadelphia, Pa. "Lady Vere Tooth Powder"	3,632	Oct. 30	25	398
Davis, Isaac, Dayton, Ohio. "Pearl-White Oil." (for Carbon Oil)	3,747	Dec. 11	25	984
Davis, William B. T., Washington, D. C. "Kolb's Ossapadentine"	3,187	May 8	23	1736
Dawson, Henry N., New York, N. Y. "Dawson's Neuralgic Cure"	3,188	May 8	23	1736
De Pombo, José J., Brooklyn, N. Y. "Home Flour Mills"	3,503	Sept. 11	24	998
De Pombo, José J., Brooklyn, N. Y. "La Redentora" (for Flour)	3,504	Sept. 11	24	998
Decker, William F., Paterson, N. J. "Dr. Decker's Shakes and Malaria Cure"	3,483	Sept. 4	24	904
Deez, August, Milwaukee, Wis. "Golden Spike" (for Cigars)	3,654	Nov. 6	25	506
Dickinson & Allie, Middlebury, Ind. "Peerless Fire Proof Roof Paint"	3,280	June 12	23	2242
Dirksen, Hermann, Brooklyn, N. Y. "Reduced Tax" (for Cigars)	3,222	May 22	23	1930
Dold & Son, Jacob, Kansas City, Mo. "White Rose Brand," (for Lard)	3,145	Apr. 17	23	1450
Dold & Son, Jacob, Kansas City, Mo. "Buffalo Brand" (for Meats)	3,146	Apr. 17	23	1450
Donaghue, Patrick, Hartford, Conn. "Cocamoke Bitters"	3,008	Feb. 27	23	744
Douglas, Charles H. J., Ann Arbor, Mich. "High School Index." (for a Periodical Publication)	3,690	Nov. 20	25	702
Dousaan, Auguste, New Orleans, La. "Holt's German Cologne"	3,161	Apr. 24	23	1532
Dowie & Moise, Charleston, S. C. "Wheatine" (for a Medicine)	3,328	July 3	24	2
Drake, Reason, La Grange, Ind. "Elixir of Tamarack and Wild Cherry"	3,257	June 5	23	2124
Drake, William B., Suffield, Conn. "Putnam Phalanx" (for Cigars)	3,541	Sept. 25	24	1180
Dreyfuss, Bernard, New York, N. Y. "No. 1" (For Buck Purses)	3,070	Mar. 13	23	942
Dromgoole, J. P., and L. M. Gillam, Atlanta, Ga. "B. B. B. Botanic Blood Balm"	3,388	July 24	24	306
Dunbar & Co., Boston, Mass. "Flying Yankee," (for Cigars)	3,655	Nov. 6	25	506
Dyas, R. K., Crittenden, Ky. "Dr. Whitesel's German Cough Syrup"	3,176	May 1	23	1626
Dyas, R. K., Crittenden, Ky. "Dr. Whitesel's Calisaya Bitters"	3,177	May 1	23	1626
Dyas, R. K., Crittenden, Ky. "Dr. Whitesel's Calisaya Bitters"	3,633	Oct. 30	25	398
Dyas, R. K., Crittenden, Ky. "Dr. Whitesel's German Cough Syrup"	3,634	Oct. 30	25	398
Dyas, R. K., Crittenden, Ky. "Dr. Whitesel's German Liniment"	3,635	Oct. 30	25	398
Dyas, R. K., Crittenden, Ky. "Dr. Whitesel's Blood Specific"	3,636	Oct. 30	25	398
Eaton, Frank E., Syracuse, N. Y. "Horehound Balsam" (for a Cough Sirup)	3,505	Sept. 11	24	998
Edler, Fred. C., Chicago, Ill. "Fred. C. Edler's Manhattan Animal and Poultry Foods"	3,748	Dec. 11	25	984
Edmunds, F. H., Fredonia, N. Y. "Vigeo" (for a Hair Tonic)	3,587	Oct. 16	25	196
Edmundson, Joseph E., Athens, Ohio. "My Choice Dentifrice"	3,329	July 3	24	2
Egerton, Herbert. (See Kraft, Jones, and Egerton.)				
Elastic Motion Sewing Machine Company, New York, N. Y. "Elastic Motion Sewing Machine Company"	3,726	Dec. 4	25	886
Elder, George K., Kansas City, Mo. "A Sure Thing for Syphilis in all its Forms"	3,542	Sept. 25	24	1180
Ellis & Co., H., Baltimore, Md. "Jersey Lily." (For Cigars)	2,954	Feb. 6	23	440
Ellis, Henry P., Chelsea, Mass. "Vegetable & Mineral Compound." (For Burning Fluid)	2,953	Feb. 6	23	440
Ellis, John W., Sigourney, Iowa. "Ellis' Nerve Tonic"	3,281	June 12	23	2242
Elsberg, R. A., New York, N. Y. "O. K. Velvet Ribbon"	2,955	Feb. 6	23	440
Emerick, Jacob T., Chicago, Ill. "Emerick's Hobby. Old-Fashioned Honesty" ("for Cigars, Cigarettes and Smoking Tobacco")	3,258	June 5	23	2124
Emlen & Cope, Philadelphia, Pa. "Tonawanda Mills" (For Piece Dry Goods)	3,029	Mar. 6	23	834
Emmert Proprietary Company, Chicago, Ill. "Uncle Sam's Nerve and Bone Liniment"	3,416	Aug. 7	24	500
England, Charles W., Newark, N. J. "Peterson's Improved Celebrated Medicated Soap Liniment"	3,725	Dec. 4	25	886
Ephraim, Myer, Flint, Mich. "Peoples Choice." (For Cigars)	3,009	Feb. 27	23	744
Erikson, Anna, Worcester, Mass. "King of Liniments"	3,349	July 10	24	104
Eustis, M. L., Minneapolis, Minn. "Uncle Josh's Rheumatic Cure"	2,929	Jan. 23	23	274
Evans, Frances R., New York, N. Y. "Roman Art Colors"	3,102	Mar. 27	23	1126
Fahnestock Baking Powder Company, Pittsburg, Pa. "Sun Flower" (For Baking Powder)	3,030	Mar. 6	23	834
Falke, Julius, St. Louis, Mo. "St. Jacob's Bitters"	3,282	June 12	23	2242
Farmers Fertilizer Company, Syracuse, N. Y. "Farmers' Fertilizer Co"	3,527	Sept. 18	24	1094
Farmers Fertilizing Company, Syracuse, N. Y. "Floral," (for Chemical Fertilizers)	3,706	Nov. 27	25	790
Farrington & Co., Chicago, Ill. "Yerba-Santa" (for a Medicine)	3,399	July 31	24	394
Farrington & Co., Chicago, Ill. "Crown Bucan" (for a Medicine)	3,400	July 31	24	394
Fay, Hiram G., Montpelier, Vt. "Mason's Compound Soap"	3,119	Apr. 10	23	1340
Fay, Hiram G., Rutland, Vt. "Fay's Wonder Soap"	3,691	Nov. 20	25	702
Fels & Co., Philadelphia, Pa. "Liquid Coffee"	3,137	Apr. 10	23	1340
Ferguson, George E. (See Houghtaling and Ferguson.)				
Feuchtwanger & Co., L., New York, N. Y. "Feuchtwanger's Disinfectant"	3,389	July 24	24	306
Fingerhut, Richard, New York, N. Y. "Syrupus Malti Compositus" (for a Medical Preparation)	3,374	July 17	24	208
Fink & Boelter, H., Chicago, Ill. "Boonekamp of Maag-Bitter"	3,236	May 29	23	2036
Fink, Conrad, and A. Nasse, St. Louis, Mo. "Pioneer's Pride," (for Coffee)	3,443	Aug. 14	24	606
Fink, Conrad, and A. Nasse, St. Louis, Mo. "Amity," (for Coffee)	3,444	Aug. 14	24	606
Fink, Conrad, and A. Nasse, St. Louis, Mo. "Farmer's Favorite" (for Coffee)	3,445	Aug. 14	24	606
Fink, Conrad, and A. Nasse, St. Louis, Mo. "Miner's Comfort" (for Coffee)	3,446	Aug. 14	24	606
Finlaw, J. P., Camden, N. J. "Finlaw's Dyspepsia and Liver Cure"	3,449	Aug. 21	24	708
Finlaw, J. P., Camden, N. J. "Queen of the Forest," (for Medicine)	3,450	Aug. 21	24	708
Finlaw, J. P., Camden, N. J. "Finlaw's King of Pain," (for a Medicine)	3,451	Aug. 21	24	708
Fireside Card Company, New York, N. Y. "Whist Cards," (for Playing Cards)	2,887	Jan. 2	23	2
Fish Bros. & Co., Racine, Wis. "Fish Brothers Wagon Co."	3,543	Sept. 25	24	1180
Fish, Luther S., Cleveland, Ohio. "Cito" (For Diptheria and Sore Throat)	2,931	Jan. 30	23	348
Fish, Luther S., Cleveland, Ohio. "Cito" "Catarrh Snuff"	3,401	July 31	24	394
Fisk, George C., Springfield, Mass. "Fiske's Tissue Paper Label"	3,071	Mar. 13	23	942
Fiske, George M., Peekskill, N. Y. "Dr. Lyon's Powders." (for a Medical Preparation)	3,428	Aug. 14	24	606
Fitzpatrick & Draper, Troy, N. Y. "Bob 'Link" (for Smoking and Chewing Tobacco)	3,637	Oct. 30	25	398
Fletcher, Elizabeth, Springfield, Mass. "Fletcher's Dry Soap"	3,768	Dec. 18	25	1082
Folwell Bro. & Co., Philadelphia, Pa. "Gerster" (for Dry Goods)	3,313	June 26	23	2416
Folwell Bro. & Co., Philadelphia, Pa. "Melange" (for Dry Goods)	3,314	June 26	23	2416
Fonerden, Clarence A., New York, N. Y. "John's Magic Pain King"	3,528	Sept. 18	24	1094
Foote, J. Howard, New York, N. Y. "Imperial Russian Gut" (for Violin Strings)	3,588	Oct. 16	25	196
Forbush, George L., Peterborough, N. H. "Chilline" (for a Remedy for Chilblains)	3,749	Dec. 11	25	984
Fornwalt, M. L., Newark, N. J. "Ivorine" (for a Liquid Tooth Wash)	3,315	June 26	23	2416
Fornwalt, Martin L., Newark, N. J. "Capitol Troche"	3,701	Nov. 20	25	702
Forrester & Cook, Kansas City, Mo. "Kansas City Preserving Co." (for Jellies, Jams, &c)	3,653	Nov. 6	25	506
Foster, John, Jr., Rochester, N. Y. "Rheumatic Syrup"	3,223	May 22	23	1930
Fougera, Charles E., Brooklyn, N. Y. "Crisoline" (for a Hair Wash)	3,707	Nov. 27	25	790
Fougera, Charles E., Brooklyn, N. Y. "Fougera's Angelic Dentifrices"	3,708	Nov. 27	25	790
Fougera, Charles E., Brooklyn, N. Y. "Fougera's Ready Mustard Plasters"	3,709	Nov. 27	25	790
Fougera, Charles E., Brooklyn, N. Y. "Fougera's Ready-Made Mustard Plasters"	3,727	Dec. 4	25	886
Fowler, Harriet A., Piqua, Ohio. "Indian Diarrhœa Cure"	2,971	Feb. 13	23	544
Francis Bros., Uhrichsville, Ohio. "Dr. Wilson's Anti-Bilious Cathartic Cordial"	3,031	Mar. 6	23	834
Frank & Co., A. B., San Antonio, Tex. "Luck." (for Smoking and Cigarette Tobacco)	2,888	Jan. 2	23	2
Frank & Co, A. B., San Antonio, Tex. "Ranchero," (for Smoking and Cigarette Tobacco)	2,889	Jan. 2	23	2

Alphabetical list of registrants of labels — Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
French & Son, F., Hilladale, Mich. "Dr. F. French's Unequaled Blood Purifier and Rheumatic Remedy"	3,147	Apr. 17	23	1450
Friedman, Louis, New York, N. Y. "Cosmetic Lotion"	2,972	Feb. 13	23	544
Friend & Co., San Francisco, Cal. "California Favorite" (for Cigars)	3,589	Oct. 16	25	196
Fry, Schieber & Co., New York, N. Y. "Broadway" (for Jewelry)	3,205	May 15	23	1830
Fuchs, Gustav, Chicago, Ill. "Western Union" (for Cigars)	3,330	July 3	24	2
Fulton, Joseph M., New London, Pa. "Galvanic Liniment"	3,561	Oct. 2	25	2
Gaertner, Fred, Louisville, Ky. "Progress" (for Cigars)	3,189	May 8	23	1736
Gail & Ax, G. W., Baltimore, Md. "Paradise" (for Tobacco)	3,224	May 22	23	1930
Gail & Ax, G. W., Baltimore, Md. "Grandee" (for Smoking and Chewing Tobacco)	3,225	May 22	23	1930
Gall, Charles F., Burlington, Iowa. "The Palace," (for Cigars)	3,710	Nov. 27	25	790
Gallagher, B. F., Philadelphia, Pa. "Dr. Gallagher's Sugar Coated Pills for Rheumatism"	3,782	Dec. 25	25	1194
Gamble, John C., Garberville, Cal. "Lemon Bloom" (for Prepared Lemon Juice)	3,590	Oct. 16	25	196
Gamotis Bros., New Orleans, La. "Fruit Cream," (For Beverages)	2,947	Jan. 30	23	348
Garney, Brown & Co., Scranton, Pa. "Garney, Brown & Co's Regulars," (for Cigars)	3,711	Nov. 27	25	790
Gay, David, Oakland, Cal. "The Gay Line of Information." ("For Packages of Food")	2,956	Feb. 6	23	440
Ghio & Rovira, New York, N. Y. "El Arabe" (for Cigars)	3,613	Oct. 23	25	294
Gilbert, Philipp W., New York, N. Y. "Alter Schweden General"	3,072	Mar. 13	23	942
Gillam, L. M. (See Dromgoole and Gillam.)				
Ginter, Lewis, Richmond, Va. "Oxford Hash" (for Smoking Tobacco)	3,390	July 24	24	306
Ginter, Lewis, Richmond, Va. "Dubec" (for Cigarettes)	3,488	Sept. 4	24	904
Glahn, Frederick, Green Bay, Wis. "The Senator" (for Cigars)	3,138	Apr. 10	23	1340
Glen Cove Manufacturing Company, Glen Cove, N. Y. "Duryeas' Diamond XXX Glucose"	3,331	July 3	24	2
Glen Cove Manufacturing Company, Glen Cove, N. Y. "Duryeas' Diamond X Glucose"	3,332	July 3	24	2
Glen Cove Manufacturing Company, Glen Cove, N. Y. "Duryeas' Diamond Crystal Glucose"	3,333	July 3	24	2
Glen Cove Manufacturing Company, Glen Cove, N. Y. "Duryeas' Diamond XX Glucose"	3,334	July 3	24	2
Goddard & Fraser, New York, N. Y. "Goddard & Fraser's Amber Enamel," (for Earthenware and other Wares)	3,148	Apr. 17	23	1450
Goddin & Tribbett, Richmond, Va. "Love Me" (for Cigars)	3,712	Nov. 27	25	790
Goddin & Tribbitt, Richmond, Va. "G. & T." (for Cigars)	3,750	Dec. 11	25	984
Gogreve, Hermann R., New Orleans, La. "Braunschweiger," (for Malt Liquors)	2,921	Jan. 16	23	196
Gogreve, Hermann R., New Orleans, La. "Sour Mash Toddy," (for Sprituous Liquors)	2,922	Jan. 16	23	196
Goldsmith & Bro., I., Chicago, Ill. "Chicago Cable" (For Cigars)	2,973	Feb. 13	23	544
Goldsmith & Bro., I., Chicago, Ill. "The New Chicago Board of Trade" (for Cigars)	3,562	Oct. 2	25	2
Goldsmith & Son, J., Philadelphia, Pa. "Fishing Tackle"	3,296	June 19	23	2330
Goodwin, Frank W., Framingham, Mass. "Goodwin's Oatmeal Bitters"	3,398	July 31	24	394
Goodwin, Frank W., Framingham, Mass. "Dr. Schultz' Medicated Cigar"	3,638	Oct. 30	25	398
Goodwin, Frank W., Framingham, Mass. "Dr. Schultz' Process Cigars"	3,751	Dec. 11	25	984
Gordon, Henry J., Guttenberg, N. J. "High Life" (for Cologne)	3,316	June 26	23	2416
Gorton, Adelos, Philadelphia, Pa. "Texas Fire Weed Ague & Neuralgia Pills"	2,990	Feb. 20	23	634
Gradle & Strotz, Chicago, Ill. "Bohemian Smoking Tobacco"	3,728	Dec. 4	25	886
Gradle & Strotz, Chicago, Ill. "Drummer Cut Plug" (for Chewing and Smoking Tobacco)	3,729	Dec. 4	25	886
Grafke & Co., A., New York, N. Y. "The No Plus Ultra Parlor Match"	3,487	Sept. 4	24	904
Grant, D. Lewis, Philadelphia, Pa. "Curaline," (for Petroleum Products and Petroleum and other Oils and Lubricating Compounds)	3,672	Nov. 13	25	604
Grant, D. Lewis, Philadelphia, Pa. "Duratus" (for Petroleum Products and Petroleum and other Oils and Lubricating Compounds)	3,673	Nov. 13	25	604
Grant, D. Lewis, Philadelphia, Pa. "Purity" (for Petroleum Products and Petroleum and other Oils and Lubricating Compounds)	3,674	Nov. 13	25	604
Graves, Gilbert S., Buffalo, N. Y. "Gilbert S. Graves' Imperial Baking Powder"	3,484	Sept. 4	24	904
Great Atlantic and Pacific Tea Company, New York, N. Y., and Baltimore, Md. "The Oriental Coffee"	3,439	Aug. 14	24	606
Green, G. S., East Fairfield, Vt. "Dr. Green's Blood Purifier"	3,421	Aug. 14	24	606
Greene, Tweed & Co., New York, N. Y. "Baxter's Diagonal Wrench"	3,162	Apr. 24	23	1532
Greene, Tweed & Co., New York, N. Y. "Baxter's Adjustable "S" Wrench"	3,163	Apr. 24	23	1532
Greenslade, Lewis B., Los Angeles, Cal. "The American Wonder—America's Tree of Life and Knowledge" (for a Medicine)	3,506	Sept. 11	24	998
Griggs, Oakley, Streator, Ill. "Griggs' Kaloderma." (for Proprietary Medicine)	3,730	Dec. 4	25	886
Grinnell Manufacturing Corporation, New Bedford, Mass. "The Grinnell Ticket" (for Cotton Fabrics)	3,485	Sept. 4	24	904
Grinnell Manufacturing Corporation, New Bedford, Mass. "The Bell Ticket" (for Cotton Fabrics)	3,486	Sept. 4	24	904
Griswold, Norman W., Alameda, Cal. "Magic Glove and Clothes Cleaner"	3,713	Nov. 27	25	790
Grommes & Ullrich, Chicago, Ill. "Elite," (for Cigars)	3,402	July 31	24	394
Grommes & Ullrich, Chicago, Ill. "Pickwick Club," (for Cigars)	3,403	July 31	24	394
Gross Bros., Milwaukee, Wis. "The A. B. C. of the Prudent Housewife." (for Soap)	3,692	Nov. 20	25	702
Gross, Howard M., Brooklyn, N. Y. "Old Dr. Malcolm's Hop Porousad Plaster"	3,010	Feb. 27	23	744
Gruning, Albert, New York, N. Y. "Deutsches Mohu Oel," (for Poppy-Seed Oil)	3,297	June 19	23	2330
Gwinn, Henry H., and J. M. Baker, Saltilloville, Ind.; said Gwinn assignor to said Baker. "Dr. Gwinn & Baker's Celebrated Curoleum," (for a Medicine)	3,675	Nov. 13	25	604
Haas, Joseph, Indianapolis, Ind. "Dr. Jos. Haas' Epizootic Remedy," (for Live Stock)	3,298	June 19	23	2330
Haas, Joseph, Indianapolis, Ind. "Dr. Jos. Haas' Cattle Remedy"	3,299	June 19	23	2330
Haas, Joseph, Indianapolis, Ind. "Dr. Jos. Haas' Lung Fever Remedy for Live Stock"	3,300	June 19	23	2330
Haas, Joseph, Indianapolis, Ind. "Dr. Jos. Haas' Alterative for Horses and Cattle"	3,301	June 19	23	2330
Haas, Joseph, Indianapolis, Ind. "Dr. Jos. Haas' Fever Drops," (for Live Stock)	3,302	June 19	23	2330
Haas, Joseph, Indianapolis, Ind. "Dr. Jos. Haas' Colic Remedy," (for Live Stock)	3,303	June 19	23	2330
Hadley Company, Boston, Mass. "Combed Shoe Thread"	3,304	June 19	23	2330
Hadley Company, Boston, Mass. "Combed Shoe Thread"	3,305	June 19	23	2330
Hadley Company, Boston, Mass. "Combed Shoe Thread"	3,335	July 3	24	2
Hafner, Henry, New York, N. Y. "West Indian Copying Paper"	3,190	May 8	23	1736
Hagan & Co., Chicago, Ill. "City of Chicago" (for Sugar Cured Smoked Hams)	3,259	June 5	23	2194
Hagan, James, Centreville, Cal. "Centerville Drying & Packing Co.," (for Canned Fruits)	3,350	July 10	24	104
Haldeman Paper Company, Lockland, Ohio. "Moth Proof" (For Carpet Lining Paper)	2,901	Jan. 9	23	96
Hall Chemical Company, Cincinnati, Ohio. "Hall's Improved Cough Remedy, Sanguinariana or Blood Root Compound"	2,991	Feb. 20	23	634
Halsey, C. S., Galesburg, Ill. "Calendulline" (for a Chemical Preparation)	3,591	Oct. 16	25	196
Hamm, John H., Kinderhook, N. Y. "J. H. Hamm's Emollient"	3,139	Apr. 10	23	1340
Hammit, Charles H., Oakland, Cal. 9143 "Rheumatic Cure"	3,529	Sept. 18	24	1094
Hammond, Benjamin, Mount Kisco, N. Y. "Hammond's Slug Shot"	3,260	June 5	23	2124
Hanson, Francis G., Brooklyn, N. Y. "Extra Quality" (For Hat Linings)	3,073	Mar. 13	23	942
Hanson, Francis G., Brooklyn, N. Y. "Extra Quality," (for Hat Linings)	3,418	Aug. 7	24	500
Hanson, Francis G., Brooklyn, N. Y. "Ludgate & Co." (for Tip-Linings of Hats)	3,783	Dec. 25	25	1194
Harding, Britton & Co., Philadelphia, Pa. "Choice German Prepared Coffee"	3,769	Dec. 18	25	1082
Harris Brothers, San Francisco, Cal. "A. O. U. W." (for Cigars)	3,417	Aug. 7	24	500
Harris' Sons, Joel H., Quincy, Ill. "Pay Day" (for Plug Tobacco)	3,614	Oct. 23	25	294

Alphabetical list of registrants of labels — Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Harris' Sons, Joel H., Quincy, Ill. "Honey Bee" (for Plug Tobacco)	3,615	Oct. 23	25	294
Harris' Sons, Joel H., Quincy, Ill. "Ne Plus Ultra" (for Plug Tobacco)	3,616	Oct. 23	25	294
Harris' Sons, Joel H., Quincy, Ill. "The Sentinel" (for Plug Tobacco)	3,617	Oct. 23	25	294
Harrison, Apollos W., Philadelphia, Pa. "Harrison's Golden Cologne Water"	3,731	Dec. 4	25	880
Harrison, William H., New York, N. Y. "Dr. Henry's No. 2 Vigor Pills"	3,452	Aug. 21	24	708
Hart, Seth, Harmer, Ohio. "Dr. Seth Hart's Napoleon Cure" (for a Medical Preparation)	3,237	May 29	23	2036
Hart, Seth, Harmar, Ohio. "Dr. Seth Hart's Anodyne Cough Syrup"	3,618	Oct. 23	25	294
Hasley, George, Allegheny, Pa. "French Soap"	3,507	Sept. 11	24	998
Hasley, George, Allegheny, Pa. "Ladies Favorite French Soap"	3,508	Sept. 11	24	998
Hassmer, Valentine, San Francisco, Cal. "Valentine Hassmer's Lung & Cough Syrup"	2,992	Feb. 20	23	634
Hastings, John, Philadelphia, Pa. "Liquid Electricity" (For Medicine)	3,011	Feb. 27	23	744
Hayes, Napoleon B., and C. F. Hopkins, Cincinnati, Ohio. "Elastic Asphalt Paint"	3,261	June 5	23	2124
Haynes, John G., W. B. Miller, M. E. and I. Bloom, Cleveland, Ohio. "Little Darling" (for Washing Compound)	3,784	Dec. 25	25	1194
Hegeman & Co., New York, N. Y. "Laxative Tonic Extracts"	2,993	Feb. 20	23	634
Heinz, F. & J., Pittsburg, Pa. "Heinz's Catsup"	2,974	Feb. 13	23	544
Heinz, F. & J., Pittsburg, Pa. "Heinz's Jelly"	3,012	Feb. 27	23	744
Heinz, F. & J., Pittsburg, Pa. "Heinz's Radish"	3,013	Feb. 27	23	744
Heinz, F. & J., Pittsburg, Pa. "Howard Brand" (For Jelly)	3,014	Feb. 27	23	744
Heinz, F. & J., Pittsburg, Pa. "Pint English" (for Celery Sauce)	3,317	June 26	23	2416
Henderson & Co., C. M., Chicago, Ill. "Henderson's School Shoes"	3,391	July 24	24	306
Henry & Co., J. L., Ravenna, Ohio. "Chimney" (For Lamp Chimneys)	2,994	Feb. 20	23	634
Henry & Co., W. W., Little Valley, N. Y. "Galvanic Oil"	3,375	July 17	24	208
Hernsheim & Bro., S., New Orleans, La. "Peacock" (for Cigars)	3,430	Aug. 14	24	606
Herold, George, Baltimore, Md. "Triumph Brand" (for Canned Goods)	3,351	July 10	24	104
Hickman Bros., Pittsburg, Pa. "Hickman's Hair Reviver"	3,149	Apr. 17	23	1450
Higgins, Charles M., Brooklyn, N. Y. "Eternal Ink"	3,032	Mar. 6	23	834
Higgins, Charles M., Brooklyn, N. Y. "Engrossing Ink"	3,033	Mar. 6	23	834
Higgins, Charles M., Brooklyn, N. Y. "Waterproof Drawing Ink"	3,693	Nov. 20	25	702
Higgins & Co., W. A., New York, N. Y. "Higgins Baking Powder"	2,932	Jan. 30	23	348
Higgins, George E., Minneapolis, Minn. "Higgins' Balsamic Lotion" (for a Medicine)	3,262	June 5	23	2124
Hill, Rowland F., New York, N. Y. "Hill's East Indian Manioca." (for a Preparation of Tapioca)	3,752	Dec. 11	25	984
Hillyer & Tileston, Faribault, Minn. "Jersey Lily" (For Flour)	3,091	Mar. 20	23	1036
Hinrichs, Theodore, Baltimore, Md. "Dr. Von Senden's Celebrated Fennel Honey Extract"	3,732	Dec. 4	25	886
Hirschhorn & Bendheim, New York, N. Y. "Union Line" (for Cigars)	3,352	July 10	24	104
Hiscox & Co., New York, N. Y. "Parker's Tonic"	3,206	May 15	23	1836
Hiscox & Co., New York, N. Y. "Parker's Tonic"	3,207	May 15	23	1836
Hoadley, Edward J., Hartford, Conn. "Hoadley's Cough Drops Label"	3,178	May 1	23	1626
Hoadley, Edward J., Hartford, Conn. "Hoadley's Jamaica Ginger Tablets"	3,336	July 3	24	2
Hoadley, Edward J., Hartford, Conn. "Hoadley's Blood Orange Pellets"	3,337	July 3	24	2
Hoadley, Edward J., Hartford, Conn. "Hoadley's Lime Fruit Tablets"	3,338	July 3	24	2
Hoey, Ellen M., West Lynn, Mass. "Delizia di Roma" (for a Cosmetic)	3,576	Oct. 9	25	98
Holdstein, Gustav, Woodbury, N. J. "Swiss Balsam"	3,465	Aug. 21	24	* 708
Hood, Bonbright & Co., Philadelphia, Pa. "Ingrain Carpet"	3,353	July 10	24	104
Hood, Bonbright & Co., Philadelphia, Pa. "Ingrain Carpet"	3,354	July 10	24	104
Hook, John G., Concord, N. H. "Elder Hook's Healing Balm," (for a Salve)	3,392	July 24	24	306
Hooper & Co., F. L., Baltimore, Md. "Schroeder's Corn Solvent"	3,226	May 22	23	1930
Hooper & Co., F. L., Baltimore, Md. "Drew's Yeast Powder"	3,676	Nov. 13	25	604
Hoover, William G., Pittsburg, Pa. "World's Shoe House," (for Boots and Shoes)	3,283	June 12	23	2242
Hopkins, Charles F. (See Hayes and Hopkins.)				
Horn, Charles W., Slatington, Pa. Horn's Telephone Liniment King of all Liniments"	3,263	June 5	23	2124
Horn, Charles W., Slatington, Pa. "Horn's Telephone Cough Syrup, The Wonder of Cough Syrups"	3,355	July 10	24	104
Houchens, J. T., Baltimore, Md. "The Family Physician" (for a Medical Compound)	3,619	Oct. 23	25	294
Houghtaling, Charles E., and G. E. Ferguson, Albany, N. Y. "Mrs Day's Worm Remedy"	3,509	Sept. 11	24	998
Houghtaling, Charles E., and G. E. Ferguson, Albany, N. Y. "Mrs Day's Baby Cordial"	3,510	Sept. 11	24	998
Houghton & Co., E. F., Philadelphia, Pa. "Petrolatum, U. S. P." (For a Medicinal Preparation)	2,933	Jan. 30	23	348
Houston & Co., James W., Pittsburg, Pa. "Ye Olden Time Coffee"	3,620	Oct. 23	25	294
Howard, Edwin H., Baltimore, Md. "Directions to Fire-Escape"	3,074	Mar. 13	23	942
Howes, Franklin, New York, N. Y. "Franklin Howes' Charm," (For a Liniment)	3,015	Feb. 27	23	744
Hoyt & Co., E. W., Lowell, Mass. "Hoyt's German Cologne"	3,770	Dec. 18	25	1082
Huber & Wack Milling and Live Stock Company, St. Louis, Mo. "White Crane," (for Flour)	3,468	Aug. 28	24	802
Hubert, C. G., New York, N. Y. "A. B. C. Alpaca Braid"	3,227	May 22	23	1930
Hunt, E. F., and S. L. Pellet, Richmond, Va. "Xanthine," (for Hair Restorative)	3,785	Dec. 25	25	1194
Huntting, Benjamin F. (See Tooker and Huntting.)				
Huppmann, Joseph, New York, N. Y. "Monopole Turkish Tobacco and Cigarette Manufactory." (for Prepared Tobacco, Cigarettes Especially)	3,469	Aug. 28	24	802
Husband, Thomas J., Philadelphia, Pa. "Husband's Calcined Magnesia," (for a Medicine)	3,264	June 5	23	2124
Hyde, George M., Quincy, Iowa. "Water-Proof Oil Blacking"	3,092	Mar. 20	23	1036
Ingham, Harvey A., Waltham, Vt. "Dr. H. A. Ingham's Vegetable Expectorant Nervine Pain Extractor"	3,164	Apr. 24	23	1532
Ireland, John H., Brooklyn, N. Y., and W. J. Russell, Jersey City, N. J. "Knickerbocker Subscription Agency." (for a Catalogue)	3,786	Dec. 25	25	1194
Ironmonger, Francis M., Brooklyn, N. Y. "Choice Table Nuts Mixed"	3,621	Oct. 23	25	294
Ithaca Cigar Manufacturing Company, Ithaca, N. Y. "Lime Kiln Club" (for Cigars)	3,284	June 12	23	2242
Itschner & Co., Werner, Philadelphia, Pa. "Tioga" (for Silks and Silk Ribbons)	3,501	Sept. 4	24	904
Ives, Frederick, Ogdensburg, N. Y. "Ives' Catarrh Cream"	3,076	Mar. 13	23	942
Jackson, Benjamin F., Wilmington, Del. "Brazilian Balm" (for a Remedy)	3,530	Sept. 18	24	1094
Jacoby & Fromer, New York, N. Y. "Invincibles" (For Cigar Boxes)	3,016	Feb. 27	23	744
Jacoby & Fromer, New York, N. Y. "Peek-a-Boo." (for Cigars)	3,191	May 8	23	1736
Jacoby & Fromer, New York, N. Y. "Lucky Hit," (for Cigars)	3,238	May 29	23	2036
Jacoby & Fromer, New York, N. Y. "Quinine Cigars"	3,285	June 12	23	2242
Jacoby & Fromer, New York, N. Y. "Duchess of Devonshire" (for Cigars)	3,356	July 10	24	104
Jacoby & Fromer, New York, N. Y. "Fresh" (for Cigars)	3,357	July 10	24	104
Jacoby & Fromer, New York, N. Y. "Bunch of Keys" (for Cigars)	3,489	Sept. 4	24	904
Jacoby & Fromer, New York, N. Y. "Ewing's Cherubs" (for Cigars)	3,656	Nov. 6	25	506
Jacoby & Fromer, New York, N. Y. "The Duffers," (for Cigars)	3,657	Nov. 6	25	506
Jacoby & Fromer, New York, N. Y. "Butler" (for Cigars)	3,658	Nov. 6	25	506
Jacoby & Fromer, New York, N. Y. "Standard Java," (for Cigars)	3,659	Nov. 6	25	506
Jacoby & Fromer, New York, N. Y. "The Grand," (for Cigars)	3,660	Nov. 6	25	506
Jacoby & Fromer, New York, N. Y. "Clippon" (for Cigars)	3,677	Nov. 13	25	604
Japanese Oil Company, Ottumwa, Iowa. "Japanese Oil" (for a Medicated Compound)	3,639	Oct. 30	25	398
Jeffreys, Lemuel A., Rochester, N. Y. "British White Oil for Man and Beast"	3,714	Nov. 27	25	790
Jewell & Son, D., New Lots, N. Y. "Unxld," (For Prepared Flour)	2,902	Jan. 9	23	96

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Johns Manufacturing Company, H. W., New York, N. Y. "Boiler Lagging" (for Fabric woven of Asbestos, &c)	3,490	Sept. 4	24	904
Johns Manufacturing Company, H. W., New York, N. Y. "Air Chamber" (for Fabric woven of Asbestos, &c)	3,491	Sept. 4	24	904
Johnson, R. M. (See Swan and Johnson.)				
Johnston, Aaron L., Cross Creek, Pa. "Johnston's Caustic Oil"	3,120	Apr. 10	23	1340
Jones, Edwards & Co., Plymouth, Pa. "B's Boot Protector"	3,179	May 1	23	1626
Jones, Evan B. (See Kraft, Jones, and Egerton.)				
Jones, John W., Brooklyn, N. Y. "Golden Anchor" (for Liniment)	3,694	Nov. 20	25	702
Jones, K. P., Chattanooga, Tenn. "Double Strength Baking Powder"	3,165	Apr. 24	23	1532
Jones, Seth A., Grand Rapids, Mich., and J. P. Primley, Elkhart, Ind. "Primley's Iron and Wahoo Tonic"	3,669	Nov. 6	25	506
Jones, Seth A., Grand Rapids, Mich., and J. P. Primley, Elkhart, Ind. "Primley's Speedy Cure for Coughs and Colds"	3,670	Nov. 6	25	506
Jones, Seth A., Grand Rapids, Mich., and J. P. Primley, Elkhart, Ind. "Jones' Glycerine Arnica Salve"	3,671	Nov. 6	25	506
Joslin, Benjamin, Uxbridge, Mass. "Dr. Joslin's Cough Syrup"	3,121	Apr. 10	23	1340
Joslin, Benjamin, Uxbridge, Mass. "Dr. Joslin's Blood Syrup"	3,122	Apr. 10	23	1340
Joslin, Benjamin, Uxbridge, Mass. "Dr. Joslin's Cough Syrup"	3,123	Apr. 10	23	1340
Kaufman & Sons, S., Pittsburg, Pa. "Extras" (for Clothing)	3,531	Sept. 18	24	1094
Keasbey & Mattison, Philadelphia, Pa. "Bromo Caffeine" (for Medicine)	3,318	June 26	23	2416
Keeley, Leslie E., Dwight, Ill. "Headache Drops"	2,910	Jan. 16	23	196
Keeley, Leslie E., Dwight, Ill. "Headache Liniment"	2,911	Jan. 16	23	196
Kelley, George W., New York, N. Y. "Brilliantine for the Eyes"	3,124	Apr. 10	23	1340
Kellogg, Isaac T., New York, N. Y. "Vail's Extracts"	2,957	Feb. 6	23	440
Kelly, Andrew J., Worcester, Mass. "The Old English Veterinary Medicine"	3,640	Oct. 30	25	398
Kemp, George L., Jamesville, Tex. "Diphtheria Gargle"	3,031	Mar. 6	23	834
Kempshall Manufacturing Company, New Britain, Conn. "Gravity-Sash Lock"	3,319	June 26	23	2416
Keppler, Christian L., New Orleans, La. "Pyrophosphated Iron Water"	3,125	Apr. 10	23	1340
Kilmer & Co., Binghamton, N. Y. "Dr. Kilmer's Indian Medicine Jug"	3,563	Oct. 2	25	2
King, Frank T., Brooklyn, N. Y. "Hygeia" (for Effervescent Beverages)	3,771	Dec. 18	25	1082
Kline, James N., Williamsport, Pa. "My Horse Shoe & Bee Label," (for General Merchandise)	3,376	July 17	24	208
Kochs, Theodore A., Chicago, Ill. "Piedra Brazil" (for Razor Hones)	3,286	June 12	23	2242
Kuehne, Frederick T., St. Louis, Mo. "Seal of Kentucky," (For Whisky)	2,934	Jan. 30	23	348
Kohn, Adler & Co., Philadelphia, Pa. "Sublime" (for Ribbons)	3,753	Dec. 11	25	964
Kraft, George, E. B. Jones, and H. Egerton, Brooklyn, N. Y. "Silver King" (for a preparation for Polishing Metals)	3,733	Dec. 4	25	886
Küpper, Louis, and W. J. Anderson, Brooklyn, N. Y. "Canada Linseed Oil"	3,564	Oct. 2	25	2
Lalance & Grosjean Manufacturing Company, New York, N. Y. "Autocrat of the Breakfast Table." (for Coffee Pots)	3,287	June 12	23	2242
Lane & Co., J. H., New York, N. Y. "Cover to Sample Book"	3,140	Apr. 10	23	1340
Lane & Co., J. H., New York, N. Y. "Egyptian Box," (for Dry Goods)	3,192	May 8	23	1736
Lane & Co., J. H., New York, N. Y. "Euretta Cloth" (for Dry Goods)	3,678	Nov. 13	25	604
Lassell, E. W., Wichita, Kans. "Lassell's All-Healing Balsam"	3,150	Apr. 17	23	1450
Latour, Madeline, New York, N. Y. "Cream of Beauty," (for a Cosmetic)	3,405	July 31	24	394
Laviolette & Nelson, Montreal, Canada. "Dr. Chevallier's Red Spruce Gum Paste." (for Cough Medicine)	3,288	June 12	23	2242
Lawson & Son, Joseph, Lynchburg, Va. "Glenwood" (for Whisky)	3,679	Nov. 13	25	604
Le Boutillier, Arlington, New York, N. Y. "Le Boutillier's Marvelous Catarrh Cure"	3,522	Sept. 18	24	1094
Le Mieux, Lucius A., Seymour, Wis. "Carbolated Sachet, Envelope or Pad" (for Disinfectants)	3,151	Apr. 17	23	1450
Leggett & Brother, New York, N. Y. "Chloride of Lime" (for Disinfectant)	3,470	Aug. 28	24	602
Leonard, Charles H., Grand Rapids, Mich. "Leonard's Selling Tickets" (for Lamps, Pendants, and Chandeliers)	3,734	Dec. 4	25	886
Levis Bros., New Orleans, La. "Levis Brothers Twins." (for Fine-Cut Tobacco)	3,736	Dec. 4	25	886
Lewenberg, C., New York, N. Y. "Madame Lewenberg's Pastilles de Florence" (for the Complexion)	3,358	July 10	24	104
Lewis & Bro., Fay, Rockford, Ill. "Maud Muller" (for Cigar Boxes)	3,560	Oct. 2	25	2
Lewis, John B., Reading, Mass. "Wear Resisters" (for Boots & Shoes)	3,377	July 17	24	208
Lilienthal & Bishop, Philadelphia, Pa. "Lilt Hop" (For Rheumatic Remedy)	3,093	Mar. 20	23	1036
Lindauer, Joseph E., New York, N. Y. "Card for Holding Separable Studs & Collar Buttons"	3,406	July 31	24	394
Lindauer, Joseph E., New York, N. Y. "Separable Buttons and Studs"	3,641	Oct. 30	25	398
Lindbladh, Maurice, New York, N. Y. "Swedish Corn Remover"	2,926	Jan. 16	23	196
Lindsay, Robert J. (See Buchanan and Lindsay.)				
Lloyd, Charles E., Albany, N. Y. "Ror-To-Pi-Co-Ine." (for a Medicine)	3,208	May 15	23	1836
Loftie, Henry, Syracuse, N. Y. "Glycerine and Rice Face-Powder"	3,695	Nov. 20	25	702
Los Gatos Fruit Packing Company, Los Gatos, Cal. "Narrow Gauge Brand, Los Gatos Fruit Packing Co., Los Gatos, Cal."	2,958	Feb. 6	23	440
Los Gatos Fruit Packing Company, Los Gatos, Cal. "Forest Brand, Redwood Fruit Packing Co., Los Gatos, Cal."	2,959	Feb. 6	23	440
Lovett, I. D., Painesville, Ohio. "Cabinet Grand" (for Organs)	3,228	May 22	23	1930
Luqueer & Co., R. S., New York, N. Y. "Our Own" (for Saddlery Hardware)	3,265	June 5	23	2124
Lowrey, John T., Overton, Tex. "Lowrey's Indian Vegetable Chill Pills"	3,622	Oct. 23	25	294
Luyties Brothers, New York, N. Y. "Rhine Wine"	3,453	Aug. 21	24	708
Luyties Brothers, New York, N. Y. "Vins Fins de Bordeaux" (for Wines)	3,454	Aug. 21	24	708
Luyties Brothers, New York, N. Y. "Veritas Bordeaux." (for Wines)	3,455	Aug. 21	24	708
Luyties Brothers, New York, N. Y. "Vins fins de Bourgogne" (for Wines)	3,523	Sept. 18	24	1094
Luyties Brothers, New York, N. Y. "Solera Whiskies"	3,524	Sept. 18	24	1094
Luyties Brothers, New York, N. Y. "Kaiser-Sprudel" (for Natural Mineral Water)	3,525	Sept. 18	24	1094
Lynch, Martha A., Baltimore, Md. "Lynch's Celebrated Dyspepsia Cordial"	3,623	Oct. 23	25	294
Lyndon, E. S., Athens, Ga. "Turkish Liniment"	3,715	Nov. 27	25	790
Lyon & Co., New York, N. Y. "Fleur d'Amerique Flour"	3,266	June 5	23	2124
Lyon, George R., New London, Conn. "Hop Pills"	3,735	Dec. 4	25	886
Lyon, John H., New York, N. Y. "John H. Lyon's Precious Ointment"	3,772	Dec. 18	25	1082
Maher & Co., J. J., Augusta, Me. "Clover Bitters"	2,975	Feb. 13	23	544
Main Bros. & Co., Lansingburg, N. Y. "Honest Box" (for Laundry Blue)	3,378	July 17	24	208
Manahan, George W. E., New York, N. Y. "Tarine" (for Pads for Exterminating Insects)	3,209	May 15	23	1836
Manahan, Margaret E., New York, N. Y. "Tarine" (for Toilet Paper)	3,544	Sept. 25	24	1180
Mandeville, Wilber J., Rochester, N. Y. "Toothache and Neuralgic Paste or Mass"	2,976	Feb. 13	23	544
Mann, Alice M., and E. S. Steward, Skowhegan, Me. "Dr. A. A. Mann's Cream of Life Pills"	3,545	Sept. 25	24	1180
Mann, C. H., executor. (See Mann, William.)				
Mann, William, deceased, Philadelphia, Pa., C. H. Mann, executor. "Mann's White Commercial Copying Books"	3,035	Mar. 6	23	834
Mann, William, deceased, Philadelphia, Pa., C. H. Mann, executor. "Mann's White Linen Letter Copying Books"	3,036	Mar. 6	23	834

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Mann, William, deceased, Philadelphia, Pa., C. H. Mann, executor. "Mann's Parchment Paper Copying Books"	3,037	Mar. 6	23	834
Mann, William, deceased, Philadelphia, Pa., C. H. Mann, executor. "Mann's Parchment Copying Paper"	3,038	Mar. 6	23	834
Mann, William, deceased, Philadelphia, Pa., C. H. Mann, executor. "Mann's American Rail-Road Copying Paper"	3,039	Mar. 6	23	834
Marsh, Clark & Co., New York, N. Y. "Ambrosial Peach and Honey"	3,642	Oct. 30	25	398
Marshall Canning Company, Marshalltown, Iowa. "Speer Brand Tomato"	3,393	July 24	24	306
Marshall Canning Company, Marshalltown, Iowa. "Headlight Tomatoes"	3,394	July 24	24	306
Marshall Canning Company, Marshalltown, Iowa. "Marshall Canning Co., (for Canned Corn)	3,431	Aug. 14	24	606
Martin & Co., L., Philadelphia, Pa. "Extra Coach Painters'" (for Lamp Black)	3,359	July 10	24	104
Martin & Co., L., Philadelphia, Pa. "Old Standard,' (for Lamp Black)	3,360	July 10	24	104
Martin & Co., L., Philadelphia, Pa. "Improved Coach Painters'" (for Lamp Black)	3,361	July 10	24	104
Martin & Co., L., Philadelphia, Pa. "Golden Star Spirit" (for Lamp Black)	3,362	July 10	24	104
Martin & Co., L., Philadelphia, Pa. "Satin Gloss," (for Lamp Black)	3,363	July 10	24	104
Martin & Co., L., Philadelphia, Pa. "Sign Painters'" (for Lamp Black)	3,364	July 10	24	104
Martin & Co., L., Philadelphia, Pa. "Germantown," (for Lamp Black)	3,365	July 10	24	104
Matheus & Minick Filler Co., Lawrenceburg, Ind. "Matheus & Minick Double Quick Wood Filler"	3,511	Sept. 11	24	998
Mathis, Charles B., Toms River, N. J. "Dutch Worm Syrup"	3,716	Nov. 27	25	790
Matthias, Joseph, and A. Sterrett, Philadelphia, Pa. "Sterrett's Infallible Butternut Pills, Cathartic and Tonic"	3,643	Oct. 30	25	398
Maul & Co., Hugo, New York, N. Y. "Imperial trimming"	2,946	Jan. 30	23	348
Maulfair, William L., Lebanon, Pa. "Orange-Leaf" (for a Liniment)	3,696	Nov. 20	25	702
McAllister, Francis E., New York, N. Y. "Eureka Coal Economizer"	2,977	Feb. 13	23	544
McCambridge, John E., Philadelphia, Pa. "Insecticide"	3,077	Mar. 13	23	942
McClelland, J. M., Emlenton, Pa. "McClelland's Anti-constipation Pills"	2,891	Jan. 2	23	2
McCulloch Brothers, Cincinnati, Ohio. "Saint Anne's Cough and Consumption Cure"	3,773	Dec. 18	25	1082
McDonald & Co., R. H., New York, N. Y. "Hygienic Elixir"	3,017	Feb. 27	23	744
McGowan, Thomas, Cleveland, Ohio. "Druid Oil" (for Liniment)	3,456	Aug. 21	24	708
McIntosh & Co., Springfield, Mass. "McIntosh & Co., U. S. A." (for Shoes, Boots and Slippers)	3,339	July 3	24	2
McIntosh, Sarah E., Almond, N. Y. "Mrs. Cary's Compound" (for a Medicinal Preparation)	3,754	Dec. 11	25	984
McKennan, S. O., New Holland, Ill. "Anti Malarial Bitters"	2,935	Jan. 30	23	348
McMenamin & Co., Hampton, Va. "Fresh Deviled Crabs"	2,923	Jan. 16	23	196
McNellis, Thomas H., Boston, Mass. "Henry's Remedy for Cholera &c"	3,532	Sept. 18	24	1094
McRae, Fulton M., Vicksburg, Miss. "The Australian (Eucalyptus Globulus) Anti-Periodic or Fever & Ague Tonic"	3,126	Apr. 10	23	1340
Meader, Daniel D., East Salisbury, Mass. "D. D. Meader's Salve"	2,995	Feb. 20	23	634
Merchant & Co., S. L., New York, N. Y., assignor to W. Y. Atlee, Washington, D. C. "Imperial Anti-Squeak Norwegian Tar Felting"	3,717	Nov. 27	25	790
Merchant & Co., S. L., New York, N. Y., assignor to W. Y. Atlee, Washington, D. C. "Imperial Portland Cement"	3,718	Nov. 27	25	790
Merkel, G. Hermann, Boston, Mass. "Oxymurin" (For a Remedy)	3,094	Mar. 20	23	1036
Merrell Chemical Company, William S., Cincinnati, Ohio. "Fluid Diastase," (a Medicine)	3,180	May 1	23	1626
Merrill, Mary M., Boston, Mass. "Dr. Sequard's Vegetable Panacea," (for a Medicine)	3,457	Aug. 21	24	708
Merriman & Son, A. F., Oakland, Cal. "Dr. Merriman's Fragrant Kalliodont" (a Dentifrice)	2,912	Jan. 16	23	196
Metzenaur, Emil, Little Rock, Ark. "Double Eagle" (for Baking Powder)	3,737	Dec. 4	25	886
Meyer, Adolph C., Baltimore, Md. "Salvation Oil" (for Liniment)	3,229	May 22	23	1930
Meyer Brothers & Co., San Francisco, Cal. "Iron Cross Brand." (for Groceries)	3,774	Dec. 18	25	1082
Meyer & Bulte, St. Louis, Mo. "Carnation," (for Flour)	3,434	Aug. 14	24	606
Meyer & Bulte, St. Louis, Mo. "Pride of the State" (for Flour)	3,592	Oct. 16	25	196
Meyer & Bulte, St. Louis, Mo. "White Swan" (for Flour)	3,624	Oct. 23	25	294
Meyer & Co., A. C., Baltimore, Md. "Dr. Bull's Cough Candy Drops"	3,127	Apr. 10	23	1340
Meyer, Frank R., St. Louis, Mo. "Meyer's Pine Apple Lemonade"	3,267	June 5	23	2124
Meyer, James, Jr., Pelhamville, N. Y. "James Meyer, Jr's, New, Inodorous, Germicide"	3,230	May 22	23	1930
Meyer, James, Jr., Pelhamville, N. Y. "James Meyer, Jr's, New, Inodorous Germicide, Solution of Alumina"	3,432	Aug. 14	24	606
Michaelis & Son, M., New York, N. Y. "The Lily on the Hudson" (for Perfumery)	3,433	Aug. 14	24	606
Miles, Frank L., Elkhart, Ind. "Dr. Miles' Great Remedy"	3,231	May 22	23	1930
Miller Match Co., Akron, Ohio. "Anti-Monopoly Match"	3,476	Aug. 28	24	802
Miller, William B. (See Haynes, Miller, and Bloom.)				
Millings, Robert C., Charleston, S. C. "Hampton Couch"	3,232	May 22	23	1930
Mills, J. C., New York, N. Y. "Injection De Mandolena by Dr. Mills"	3,407	July 31	24	394
Minor & Brown, Neosho, Mo. "White Swan" (for Flour)	3,593	Oct. 16	25	196
Minor & Brown, Neosho, Mo. "Sterling" (for Flour)	3,594	Oct. 16	25	196
Minor & Brown, Neosho, Mo. "Angel Food" (for a Certain Brand of Flour)	3,595	Oct. 16	25	196
Mitchell, James, Camden, N. J. "Thistle" (for Liniment)	3,379	July 17	24	208
Modisett, Charles H., Le Roy, N. Y. "Globe Plaster"	2,960	Feb. 6	23	440
Modisett, Charles H., Le Roy, N. Y. "Globe Ointment"	2,978	Feb. 13	23	544
Morrell, Charles E., New York, N. Y. "Compound Extract Copaiba, Cubebs and Iron"	2,892	Jan. 2	23	2
Moore, Edward J., New York, N. Y. "Shoemakers' and Tanners' Friendly Dressing and Blacking"	3,719	Nov. 27	25	790
Moore, Thomas, Philadelphia, Pa. "Dr. Moore's Fragrant Solace for cleansing and Preserving the Teeth"	3,533	Sept. 18	24	1094
Morrison & Deprez, Shelbyville, Ind. "Morrison & Deprez' Horse and Cattle Powder"	3,018	Feb. 27	23	744
Morse, Charles H., Holliston, Mass. "Morse's Asparagus Kidney Cure"	3,095	Mar. 20	23	1036
Morse, Charles H., Holliston, Mass. "Morse's Compound Cough Syrup"	3,459	Aug. 21	24	708
Morse, William L., Baltimore, Md. "My Maryland Bitters"	2,965	Feb. 6	23	440
Mountain Valley Springs Company, Hot Springs, Ark. "Mountain Valley Springs Co." (for Natural Mineral Water)	3,268	June 5	23	2124
Mountain Valley Springs Company, Hot Springs, Ark. "Mountain Valley Water" (for Natural Mineral Water)	3,269	June 5	23	2124
Mullikin, Susan A., Baltimore, Md. "A Cap for Oyster Cans"	2,913	Jan. 16	23	196
Murray & Co., E. E., New York, N. Y. "Zingari, The Gypsie Queen's Secret" (for Ointment)	3,477	Aug. 28	24	802
Nasse, August. (See Fink and Nasse.)				
Nathan Brothers, Philadelphia, Pa. "Ye Philadelphia Club Whisky"	3,787	Dec. 25	25	1194
Neasse & Co., G. W., North East, Pa. "Galvanic Oil"	3,366	July 10	24	104
Nelson, Marietta, Jersey City, N. J. "Fruitaline" (for a Chemical Compound)	3,408	July 31	24	394
Neurotoxic Manufacturing Company, Wilber, Nebr. "Neurotoxic," (a Remedy for Neuralgia)	3,306	June 19	23	2330
Neustaedter & Co., P., New York, N. Y. "St. Bernard," (for Vegetable Pills)	2,924	Jan. 16	23	196
New York and Rosendale Cement Company, New York, N. Y. "Rosendale Hydraulic Cement"	3,512	Sept. 11	24	998
Newberger, Ernest, Montreal, Quebec, Canada. "Parnell" (for Cigars)	3,577	Oct. 9	25	98
Newman, Walter, Brooklyn, N. Y. "Morning Whiff" (for Cigars)	3,435	Aug. 14	24	606
Newton Brothers & Co., San Francisco, Cal. "Newton's Evolution Soap"	3,596	Oct. 16	25	196
Newton, W. D., Victor, N. Y. "Octimatus," (for Cigars)	3,460	Aug. 21	24	708

Alphabetical list of registrants of labels — Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Nichols, G. D., New Canaan, Conn. "The Light of the World," (for Patterns for a Picture)	3,409	July 31	24	394
Noelle & Co., Charles, Baltimore, Md. "Noelle's Celebrated Peruvian Bitters"	3,775	Dec. 18	25	1062
Northup & Penman, Scranton, Pa. "Ha! Ha! Cough Drops"	3,661	Nov. 6	25	506
O'Brien, Maurice, New York, N. Y. "Excelsior" (for Upholstery and Drapery Trimmings)	3,513	Sept. 11	24	998
O. K. Soap Co., Philadelphia, Pa. "O. K. Borax Soap"	3,644	Oct. 30	25	398
O'Lalor, David R., Boston, Mass. "Mann's Remedy" (for a Patent Medicine)	3,289	June 12	23	2242
O'Loughlin, Cyrus, Niagara Falls, N. Y. "Niagara Spray Cologne"	3,680	Nov. 13	25	604
O'Meara, John U., Washington, D. C. "O'Meara's Royal Glue"	2,979	Feb. 13	23	544
Oakes, J. E., Haverhill, N. H. "Oake's Balm of Life" (for a Medicine)	3,514	Sept. 11	24	998
Ohio Candle Company, Cincinnati, Ohio. "Daisy Soap"	3,078	Mar. 13	23	942
Oliver, D. C., Holly Springs, Miss. "The Wonderful Creole Blood Purifier." (For Medicine)	2,936	Jan. 30	23	348
Oriental Manufacturing Company, Philadelphia, Pa. "The Rising Sun Shoe Blacking"	3,492	Sept. 4	24	804
Oriental Manufacturing Company, Philadelphia, Pa. "Cirage Onctueux" (for Blacking)	3,597	Oct. 16	25	196
Orth, Adam, Milwaukee, Wis. "Holland Universal Stomach Bitters"	3,103	Mar. 27	23	1126
Osthelmer Brothers, Philadelphia, Pa. "Coppel Cutlery Co.." (For Cutlery)	2,937	Jan. 30	23	348
Pacific Vinegar Works, San Francisco, Cal. "View of our Vineyard" (for Wine Vinegar)	3,625	Oct. 23	25	294
Page, Henry A., Boston, Mass. "Wellington Mills Standard Flexible Cabinet Glass Paper"	3,152	Apr. 17	23	1450
Page, Henry A., Boston, Mass. "Wellington Mills Standard Flexible Cabinet Glass Paper"	3,153	Apr. 17	23	1450
Page, Henry A., Boston, Mass. "Wellington Crystal Polish"	3,154	Apr. 17	23	1450
Palmer, Chillingsworth C., Philadelphia, Pa. "Palmer's Indian Remedy for External and Internal Use"	2,996	Feb. 20	23	634
Parker, Frank, A. L. Vandewater, and T. G. Talmage, Islip, N. Y. "Pepsin Bitters"	3,755	Dec. 11	25	984
Paul, Lorenzo C., Boston, Mass. "The Dude's Choice Perfumes"	3,515	Sept. 11	24	998
Payne, John F. (See Williams and Payne.)				
Payn's Sons, B., Albany, N. Y. "Lena" (for Cigars)	3,471	Aug. 28	24	802
Pearson, William L., Troy, Ohio. "Vienna Baking Powder"	3,645	Oct. 30	25	398
Pellet, S. L. (See Hunt and Pellet.)				
Pemberton, Iverson & Denison, Atlanta, Ga. "A four (4) leafed Clover." (for Medical Compounds)	3,166	Apr. 24	23	1538
Perry & Co., H. W., Selma, Ala. "H. W. Perry & Co.'s National." (for Plug Tobacco)	3,681	Nov. 13	25	604
Peters, Henry E., Allentown, Pa. "Dandelion Liver Pellets"	3,395	July 24	24	306
Peters, Henry E., Allentown, Pa. "Dandelion Bitters"	3,396	July 24	24	306
Pevey, John M., Lowell, Mass. "Macrame Cord"	3,682	Nov. 6	25	566
Pevey, John M., Lowell, Mass. "Knitting Cotton"	3,682	Nov. 13	25	604
Phillips, Charles C., Philadelphia, Pa. "Phillips' Opalite" (for a Filler)	3,598	Oct. 16	25	196
Phillips, George M., Maysville, Ky. "Lavarre's Sure Cure"	2,930	Jan. 23	23	274
Phillips, John R., Baltimore, Md. "Camp Fire" (For Blankets)	2,961	Feb. 6	23	440
Phipps, George, Baraboo, Wis. "Prussian Heave Powders"	3,380	July 17	24	208
Pickit, J. B., Fergus Falls, Minn. "Pickit's Purifying Syrup" (for a Medicine)	3,516	Sept. 11	24	998
Pierce, A. J., Coldwater, Mich. "Snag" (For Cigar Boxes)	2,940	Jan. 30	23	348
Piers, Charles, Menomonee, Wis. "The Eclegm Consumption Cure"	3,320	June 26	23	2416
Pincus Bros., Philadelphia, Pa. "Choclatina" (for a Beverage)	3,599	Oct. 16	25	196
Pinski Brothers, New Orleans, La. "The Mascot Tobacco Cigarette"	3,128	Apr. 10	23	1340
Pirz & Saward, New York, N. Y. "Cosmaroma." (for a Toilet Liquid)	3,367	July 10	24	104
Plass, Ida I., Detroit, Mich. "Pick's Magic Mixture" (for a Medicine)	3,534	Sept. 18	24	1094
Plume & Atwood Manufacturing Company, Waterbury, Conn. "Family Pins"	3,565	Oct. 2	25	2
Poncet, M., Baltimore, Md. "M. Poncet's Invaluable Remedy for Small Pox"	3,019	Feb. 27	23	744
Popp, Jacob J. F., Harrisburg, Pa. "German Stomach Powder"	3,419	Aug. 7	24	500
Porous Plaster Company, Sing Sing, N. Y. "Allcock's Porous Plaster, Brandreth's Pills"	3,381	July 17	24	208
Portman & Co., J. N., Chipley, Ga. "Swiss Infallible Tetter Cure"	3,790	Nov. 27	25	790
Potter, Charles W., Wakefield, Mass. "I am the Excelsior Cough Syrup"	3,239	May 29	23	2036
Potts, Samuel T., Augusta, Ga. "Potts' Will Cure Liniment"	3,578	Oct. 9	25	98
Potts, Samuel T., Augusta, Ga. "Potts' Great Southern Worm Circles"	3,579	Oct. 9	25	98
Potts, Samuel T., Augusta, Ga. "Potts' Long Leaf Liniment"	3,580	Oct. 9	25	98
Powers, Edgar C., Danvers, Mass. "Powers' Specific"	3,155	Apr. 17	23	1450
Primley, Jonathan P. (See Jones and Primley.)				
Purdy, John H., Chicago, Ill. "Thin Mi-Concave Watch Glasses"	3,702	Nov. 20	25	702
Purdy & Stein, J. H., Chicago, Ill. "Mi-Concave." (For Watch Crystals)	2,997	Feb. 20	23	634
Purdy & Stein, J. H., Chicago, Ill. "Geneva" (For Watch Crystals")	2,998	Feb. 20	23	634
Purdy & Stein, J. H., Chicago, Ill. "Flat Lunette." (For Watch Crystals)	2,999	Feb. 20	23	634
Purdy & Stein, J. H., Chicago, Ill. "High Lunette." (For Watch Crystals)	3,000	Feb. 20	23	634
Purdy & Stein, J. H., Chicago, Ill. "Flat Concave." (For Watch Crystals)	3,001	Feb. 20	23	634
Queman, Anthony, Brooklyn, N. Y. "Excelsior," (For Cleaning and Removing Tarnish from Metallic and other Articles)	2,992	Feb. 6	23	440
Quigley, William G., College Point, N. Y. "Quigley's Consumption and Asthma Cure"	3,193	May 8	23	1736
Randall, Leander P., Philadelphia, Pa. "Randall's Pocket Case of Homœpathic Medicines for Travelers and Families"	3,420	Aug. 7	24	500
Rankin & Sherrick, New York, N. Y. "Big Find" (for Cigars)	3,270	June 5	23	2124
Rankin & Sherrick, New York, N. Y. "Two Sours" (for Cigars)	3,271	June 5	23	2124
Rankin & Sherrick, New York, N. Y. "Cupid M. D" (for Cigars)	3,272	June 5	23	2124
Rankin & Sherrick, New York, N. Y. "The Great Five" (for Cigars)	3,647	Oct. 30	25	398
Rankin & Sherrick, New York, N. Y. "The Washingtons"	3,758	Dec. 11	25	984
Rano, Charles O., Buffalo, N. Y. "Wheat, Beef and Iron"	2,903	Jan. 9	23	96
Rano, Charles O., Buffalo, N. Y. "Whisky and Beef," (Rye Whisky and Beef Broth)	2,948	Jan. 30	23	348
Rauch, Albert E., Indianapolis, Ind. "The When Cigar"	3,340	July 3	24	2
Rawson, William M. (See Bedford and Rawson.)				
Raymond, B. F., Essex, Mass. "Sarsaparillian Hygienic Wine Puzzle"	3,663	Nov. 6	25	506
Raymond, Benjamin F., Essex, Mass. "Raymond's Sarsaparellian Hygienic Wine"	3,020	Feb. 27	23	744
Raymond, George T., Coney Island, N. Y. "Raymond's Pectoral Plaster"	3,021	Feb. 27	23	744
Raze, Arthur E., Buffalo, N. Y. "Peerless Flavoring Extracts"	2,893	Jan. 2	23	2
Rhodes & Sons, M. M., Taunton, Mass. "Shoe Button"	3,626	Oct. 23	25	294
Rhodes & Sons, M. M., Taunton, Mass. "Shoe Button"	3,627	Oct. 23	25	294
Rehrig & Koons, Catasauqua, Pa. "Eureka Hoof Ointment"	3,438	Aug. 14	24	606
Reidy, Philip A., Malden, Mass. "Reidy's Scratch Ointment"	3,321	June 26	23	2416
Restein, John, Philadelphia, Pa. "Restein's Indicator." (for Checks, Notes, Drafts, &c)	3,290	June 12	23	2242
Restein, John, Philadelphia, Pa. "Restein's Indicator No. 2." (for Checks, Notes, Drafts, &c)	3,291	June 12	23	2242
Retzer, Elizabeth D., Philadelphia, Pa. "Retzer's Brown Salve"	2,925	Jan. 16	23	196
Reynolds & Co., N., Troy, N. Y. "Crystal Water Frosting"	2,941	Jan. 30	23	348
Rheumatine Manufacturing Company, St. Catharines and Niagara Falls, Ontario, Canada, and Suspension Bridge, N. Y. "Sutherland's Rheumatine"	3,156	Apr. 17	23	1450
Richardson, A. M., Buffalo, N. Y. "Richardson's Cough Cure"	2,942	Jan. 30	23	348
Richey, T. E., Princeton, Ky. "T. E. Richey's Anti-Malarial Pills"	3,210	May 15	23	1836
Ricker & Sons, Hiram, South Portland, Me. "Poland Water," (for Poland Mineral Spring Water)	3,273	June 5	23	2124
Ricker & Sons, Hiram, South Portland, Me. "Aerated Poland Water" (for Poland Mineral Spring Water)	3,274	June 5	23	2124

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Ridenour, Baker & Co., Kansas City, Mo. "Green Seal Baking Powder"	3,167	Apr. 24	23	1532
Ridgway, Samuel, Hydetown, Pa. "Ridgway's Acme Liniment"	3,341	July 3	24	2
Rivers, J. S., New Orleans, La. "Mode of Distributing Money Dodgers," (for Blank Books, Stationery, and other like Articles)	3,410	July 31	24	394
Robbins, Charles B., Worcester, Mass. "Gutta Percha Court Plaster"	2,914	Jan. 16	23	196
Robinson, Harry, St. Joseph, Mo. "Professor Harry Robinson's Specific Lotion"	3,756	Dec. 11	25	984
Robinson Medical Manufacturing Company, J. H., Cleveland, Ohio. "Pioneer Coffee Settler"	3,342	July 3	24	2
Robison, Robert B., Allegheny, Pa. "Medical Wonder"	3,472	Aug. 28	24	802
Robison, Robert B., Allegheny, Pa. "Tokalon" (for a Hair Restorative)	3,535	Sept. 18	24	1094
Robison, Robert B., Allegheny, Pa. "Triumph Pills"	3,546	Sept. 25	24	1180
Roederer & Co., Théophile, Rheims, France. "Théophile Roederer & Co. Extra Dry" (for Champagne-Wine)	3,478	Aug. 28	24	802
Roesler, Adolph, Warsaw, Ill. "Black Lustre Stove Polish Paste"	3,437	Aug. 14	24	606
Rogan, James, Dunkirk, N. Y. "Nickel Plate" (for Cigars)	3,157	Apr. 17	23	1450
Rogers & Co., New York, N. Y. "Poke" (For Head Coverings)	3,002	Feb. 20	23	634
Rogers, Justin, Springfield, Mass. "Chasser Drops," (for a medicine)	3,104	Mar. 27	23	1126
Rogers, William, Hartford, Conn. "Athens" (for Silver-Plated Goods)	3,493	Sept. 4	24	904
Rose & Co., H. F., Binghamton, N. Y. "Cleveland" (for Cigars)	3,105	Mar. 27	23	1126
Rose, Hubbard F., Binghamton, N. Y. "Eclipse," (For Cigars)	2,943	Jan. 30	23	348
Ross, William H., Jamestown, N. Y. "The World Imperial Catarrh Cream"	3,096	Mar. 20	23	1036
Ross, William H., Jamestown, N. Y. "The World Imperial Throat Tonic"	3,233	May 22	23	1930
Ross, William T., Louisville, Ky. "Simpson's Uterine Suppositories"	3,436	Aug. 14	24	606
Rothschild & Co., V. Henry, New York, N. Y. "Highland" (For Printed Cotton Fabrics)	2,980	Feb. 13	23	544
Rowley, Robert E., Topeka, Kans. "Rowley's Rough on Rheumatism"	3,628	Oct. 23	25	294
Royal Canning Company, Muscatine, Iowa. "Canned Goods" (for Canned Fruits and Vegetables)	3,421	Aug. 7	24	500
Royal Canning Company, Muscatine, Iowa. "Canned Goods" (for Canned Fruits and Vegetables)	3,422	Aug. 7	24	500
Rudd, J. F., Jacksonville, Tex. "Dr. Rudd's Vegetable Kidney and Rheumatic Cure"	3,211	May 15	23	1836
Rudd, J. F., Jacksonville, Tex. "Dr. Rudd's Vegetable Liver Relief"	3,275	June 5	23	2124
Rudd, J. F., Jacksonville, Tex. "Dr. Rudd's Celebrated Flux Specific"	3,423	Aug. 7	24	500
Rudolph's Sons & Co., S. A., Philadelphia, Pa. "Marion Mills." (For Paper)	2,963	Feb. 6	23	440
Russell, William J. (See Ireland and Russell.)				
Ryle, John, Paterson, N. J. "A New Brand" (for Ribbons)	3,292	June 12	23	2242
Saberhagen, Charles. (See Yates and Saberhagen.)				
Sachs, Pruden & Co., Dayton, Ohio. "Sachs, Pruden & Co.'s Famous Ginger Ale"	3,022	Feb. 27	23	744
Sackett, Wilhelms & Betzig, New York, N. Y. "Rejuvenator." (for Cigars)	3,697	Nov. 20	25	702
Sackett, Wilhelms & Betzig, New York, N. Y. "Tantalus" (for Cigars)	3,788	Dec. 25	25	1194
Samostz, Oscar, Austin, Tex. "Samostz's Hypnotique, The Great Texas Cough Remedy"	3,141	Apr. 10	23	1340
Sanders & Co., William T., Crawfordsville, Ind. "Dr. Bass' Vegetable Liver Pills"	3,757	Dec. 11	25	984
Sanford & Sons, S. T. W., New York, N. Y. "Dr. Sanford's Liver Invigorator." (for a Proprietary Medicine)	3,343	July 3	24	2
Sanford & Sons, S. T. W., New York, N. Y. "Dr. Sanford's Liver Invigorator" (for a Proprietary Medicine)	3,344	July 3	24	2
Sanford & Sons, S. T. W., New York, N. Y. "Dr. Sanford's Liver Invigorator"	3,368	July 10	24	104
Sanford & Sons, S. T. W., New York, N. Y. "Dr. Sanford's Liver Invigorator"	3,566	Oct. 2	25	2
Sankey, John, Mifflinburg, Pa. "The Life of Leather." (for a Preparation for Preserving Leather)	3,666	Nov. 6	25	506
Sarsfield, J. P., Sacramento, Cal. "Chronic Ulcer Salve"	3,040	Mar. 6	23	834
Saunders, George F., New York, N. Y. "Metallic Tablet and Razor Strop"	2,981	Feb. 13	23	544
Scaglione & Co., John, New York, N. Y. "Sicilian Balsam Liniment"	3,240	May 29	23	2036
Schlauch, John, Evansville, Ind. "Little Blackwood" (for Cigars)	3,106	Mar. 27	23	1126
Schlemm, Charles W. G., Reading, Pa. "Dr. C. W. G. Schlemm's Wine of Dandelion and Iron"	3,023	Feb. 27	23	744
Schoch, Charles H., New York, N. Y. "La America" (for Beer)	3,424	Aug. 7	24	500
Schroeder, Henry, Chicago, Ill. "The Genuine Kaiser Drops," (for Medical Compound)	3,212	May 15	23	1836
Schuhr, Charles A., Buffalo, N. Y. "Dr. Messner's Indian Herb Tea"	3,003	Feb. 20	23	634
Schultze & Bro., Baltimore, Md. "The Oyster Shucker's Friend" (for a Medicine)	3,776	Dec. 18	25	1062
Schumacher & Ettlinger, New York, N. Y. "A Cigar Label"	2,904	Jan. 9	23	96
Schumacher & Ettlinger, New York, N. Y. "Pappoose"	3,041	Mar. 6	23	834
Schumacher & Ettlinger, New York, N. Y. "A Cigar Label"	3,042	Mar. 6	23	834
Schumacher & Ettlinger, New York, N. Y. "A Cigar Label"	3,043	Mar. 6	23	834
Schumacher & Ettlinger, New York, N. Y. "A Cigar Label"	3,044	Mar. 6	23	834
Schumacher & Ettlinger, New York, N. Y. "A Cigar Label"	3,045	Mar. 6	23	834
Schumacher & Ettlinger, New York, N. Y. "A Cigar Label"	3,046	Mar. 6	23	834
Schumacher & Ettlinger, New York, N. Y. "A Cigar Label"	3,047	Mar. 6	23	834
Scott, Andrew J., Hamilton, Ohio. "Scott's Asthma and Lung Cure"	3,241	May 29	23	2036
Scott, George, Rome, N. Y. "Old Homestead Wild Cherry Bitters"	3,307	June 19	23	2330
Scott, James E., Norfolk, Va. "Dr. W. W. Scott's Ague and Fever Mixture"	3,581	Oct. 9	25	98
Scott, Mathew A., Livermore, Cal. "Scotts Egyptian Cream" (for a toilet preparation)	3,547	Sept. 25	24	1180
Seibert, Joseph, Mansfield, Ohio. "The Crown of all" (for Soap)	3,738	Dec. 4	25	886
Shoemaker, William M., Philadelphia, Pa. "Cheltenham Poultry Food"	3,548	Sept. 25	24	1180
Shoemaker, William M., Philadelphia, Pa. "Aunt Abby's Mince Meat"	3,721	Nov. 27	25	790
Short, William H., Brooklyn, N. Y. "Hobb's Gout and Rheumatic Remedy"	3,024	Feb. 27	23	744
Shorten, John, Jr., Bangor, Me. "Scratch Ointment"	3,382	July 17	24	208
Shull & Co., D. F., Philadelphia, Pa. "Golden Butter Color"	3,060	Mar. 13	23	942
Sibley, Charles M., New York, N. Y. "Sibley's Improved" (for Anchor Steam Boiler Compound)	3,582	Oct. 9	25	98
Sidle Fletcher Holmes Company, Minneapolis, Minn. "Corrugated" (for Flour)	3,242	May 29	23	2036
Sidle Fletcher Holmes Company, Minneapolis, Minn. "Minnehaha" (for Flour)	3,243	May 29	23	2036
Sidle Fletcher Holmes Company, Minneapolis, Minn. "Granulated" (for Flour)	3,244	May 29	23	2036
Sidle Fletcher Holmes Company, Minneapolis, Minn. "Persian" (for Flour)	3,245	May 29	23	2036
Smith, America, Lagarta, Tex. "Old Texan Ointment"	3,025	Feb. 27	23	744
Smith & De Witt, Troy, N. Y. "Weaver's Pride" (for Carpet Warp)	3,583	Oct. 9	25	98
Smith, Frank I., Rochester, N. H. "Farrier's Secret" (for a Veterinary Remedy)	3,213	May 15	23	1836
Smith, Joshua, Chicago, Ill. "Dentaline." (for Dentifrice)	3,759	Dec. 11	25	984
Smith, M. H., Philadelphia, Pa. "Smith's Hair Beautifier"	3,129	Apr. 10	23	1340
Smith, Mary J., Troy, N. Y. "Mother's Friend" (for Pills)	3,130	Apr. 10	23	1340
Smith Middlings Purifier Company, George T., Jackson, Mich. "Smith Martin Centrifugal." (for Flour Bolting Machines)	3,214	May 15	23	1836
Smith, O. G., Seneca Falls, N. Y. "Hop Oil"	2,905	Jan. 9	23	66
Smith, Rufus E., Syracuse, N. Y. "Glycerine Pectina." (for Chapped Hands, Lips, &c)	3,194	May 8	23	1736
Snow, Ingham & Co., Abingdon, Va. "Two Kings," (for Tobacco)	2,890	Jan. 2	23	2
Snyder, Henry, Brooklyn, N. Y. "The Public Benefactor." (for Whisky)	3,760	Dec. 11	25	984
Snyder, Joseph W., Philadelphia, Pa. "Pillow Inhaler"	3,195	May 8	23	1736
Solomons, J. N., East Orange, N. J. "Digestro"	3,048	Mar. 6	23	834
Southwick, Arthur Q., New York, N. Y. "Bell's Adhesive and Water-Proof Belt Oil"	2,983	Feb. 13	23	544
Southwick, Arthur Q., New York, N. Y. "Polar Belt Dressing"	3,004	Feb. 20	23	634

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Southworth, Horatio W., Springfield, Mass. "Writing Paper"	3,739	Dec. 4	25	886
Spaar Bros., Milwaukee, Wis. "G. B." (for Cigars)	3,665	Nov. 6	25	506
Spalding, Charlotte, Brooklyn, N. Y. "Seth's Pile Cure"	3,369	July 10	24	104
Speicher Dandruff Cure Co., Philadelphia, Pa. "Speicher's Dandruff Cure"	3,777	Dec. 18	25	1082
Spencer & Brown, Greeneville, Tenn. "Ramon's Genuine Nerve and Bone Oil"	3,740	Dec. 4	25	886
Stahl, Jacob, New York, N. Y. "Grand Success," (For Cigars, Cigarettes, and Smoking Tobacco)	2,984	Feb. 13	23	544
Stahl, Jacob, New York, N. Y. "Our Eagle" (for Cigars, Cigarettes, and Smoking Tobacco)	3,461	Aug. 21	24	708
Stanard & Co., E. O., St. Louis, Mo. "Stanard's Eagle Steam Extra Roller Process"	2,915	Jan. 16	23	196
Stanard & Co., E. O., St. Louis, Mo. "Stanard's Roller Process Royal Patent"	2,916	Jan. 16	23	196
Standard Oil Company, Cleveland, Ohio. "Eocene" (for Illuminating Oil)	3,519	Sept. 11	24	998
Stauff & Foster, Baltimore, Md. "Hamburger Cough Syrup"	3,081	Mar. 13	23	942
Stay, William H., Glens Falls, N. Y. "Stay's Rheumatic Liniment"	3,383	July 17	24	208
Stayner, Charles W., Salt Lake City, Utah Ter. "Britannia" (for a Medicine)	3,664	Nov. 6	25	506
Steck & Co., Charles, Buffalo, N. Y. "Buffalo Sweet Chocolate"	3,097	Mar. 20	23	1036
Steinau, Joseph, Salt Lake City, Utah Ter. "Steinau's Asthma Cure"	3,049	Mar. 6	23	834
Sternsdorff & Co., R., Buffalo, N. Y. "Boonekamp Magen-Bitter"	3,131	Apr. 10	23	1340
Sternsdorff & Co., R., Buffalo, N. Y. "Boonekamp of Maag-Bitter"	3,215	May 15	23	1836
Sterrett, Achilles. (See Matthias and Sterrett.)				
Stevens, Frederick S., Bridgeport, Conn. "Fred. Stevens' Unfailing Cough Cure"	3,216	May 15	23	1836
Stevens Manufacturing Company, Boston, Mass. "Nature's Cure from the Wild Woods," (for a Medical Compound)	3,308	June 19	23	2330
Stevenson & Slingluff, Baltimore, Md. "Signal Service Boot"	3,196	May 8	23	1736
Steward, Eugene S. (See Mann and Steward.)				
Stewart, George W., Atlanta, Ga. "Female Curator," (for Medicine)	3,384	July 17	24	208
Stinard, William H., Syracuse, N. Y. "Stinard's Original Chocolate Cocoanut Tea Rolls"	3,246	May 29	23	2036
St. Jacobs Bitters Company, Cincinnati, Ohio. "St. Jacobs Tonic"	3,404	July 31	24	394
Stoddart, Archibald C., San Francisco, Cal. "Dr. Liebig's German Invigorator" (for a Medical Compound)	3,494	Sept. 4	24	904
Stoddart, Archibald C., San Francisco, Cal. "Dr. Liebig's German Invigorator" (for a Medical Compound)	3,495	Sept. 4	24	904
Stout, Lemuel, Philadelphia, Pa. "Try Summerford's Kornease"	2,894	Jan. 2	23	2
Strong, C. H., Chicago, Ill. "Arnica Tooth Soap"	3,107	Mar. 27	23	1126
Sublett, Samuel H., Fordsville, Ky. "S. H. Sublett's Laundry and Toilet Soap"	3,168	Apr. 24	23	1532
Summers & Co., Charles G., Baltimore, Md. "Oriole Assorted Jellies"	3,181	May 1	23	1626
Sutton & Co., F., Philadelphia, Pa. "Premium Trunk Brand" (for Coffee)	3,182	May 1	23	1626
Swan, A. H., and R. M. Johnson, Austin, Tex. "New Zealand Sheep Dip"	3,309	June 19	23	2330
Sweetwater Mill Co., Sweetwater, Tenn. "Sweetwater Valley Roller Process" (for Flour Sacks)	3,549	Sept. 25	24	1180
Sweetheart Soap Co., Philadelphia, Pa. "Sweetheart's Best Borax Soap"	3,648	Oct 30	25	398
Sweny, Henry J., Boston, Mass. "Dr. Henry J. Sweny's Imperial Hair Balm"	3,370	July 10	24	104
Swezey, Gershom H., New York, N. Y. "Capsicum Oil" (for Liniment)	3,520	Sept. 11	24	998
Swift Specific Company, Atlanta, Ga. "Swift's Specific"	3,142	Apr. 10	23	1340
Tallman & Sanborn, Chicago, Ill. "The New Board of Trade, Chicago" (for Cigars)	3,550	Sept. 25	24	1180
Talmage, Thomas G. (See Parker, Vandewater, and Talmage.)				
Taylor & Co., B. Z., Decatur, Ill. "Mexican Palmea." (for Soap)	3,197	May 8	23	1736
Taylor, Harry, Cincinnati, Ohio. "Honest John Shaker Yeast"	3,322	June 26	23	2416
Taylor, W. Scott, Trenton, N. J. "Red Liniment"	3,323	June 26	23	2416
Taylor, William B., Sr., Sparta, Ill. "Taylor's Sucker State Liniment"	3,198	May 8	23	1736
Tenney, Frank H., Worcester, Mass. "Tenney's Compound Vegetable Cough Syrup"	3,683	Nov. 13	25	604
Thomas & Bro., Richmond, Va. "Apres Souper" (for Cigars)	3,411	July 31	24	394
Thomas & Bro., Richmond, Va. "Toujours" (for Manufactured Tobacco)	3,551	Sept. 25	24	1180
Thomas & Bro., Richmond, Va. "Apres Dejeuner" (for Manufactured Tobacco)	3,552	Sept. 25	24	1180
Thomas & Bro., Richmond, Va. "Apres Diner" (for Manufactured Tobacco)	3,553	Sept. 25	24	1180
Thomas, Charles A., Rushville, Ohio. "Root and Herb Remedy"	3,600	Oct. 16	25	196
Thomas, Charles M., Jr., Philadelphia Pa. "Celebrated Farmers Brand Coffee"	3,098	Mar. 20	23	1036
Thomas, Jesse K., Mount Pleasant, Ohio. "Dr. J. K. Thomas' Medicine for the People"	3,132	Apr. 10	23	1340
Thornton & Co., H., Buffalo, N. Y. "Little Daisy" (For a Carbonated Beverage)	2,939	Jan. 30	23	348
Thorp, T. C., Cincinnati Ohio. "Dr. Thorp's Balsam of Life"	3,143	Apr. 10	23	1340
Thorpe, Philip, New York, N. Y. "Buttered Flour"	3,217	May 15	23	1836
Thurman, William S. P., St. Louis, Mo. "Dr. Thurman's Embrocation"	3,473	Aug. 28	24	802
Tichenor, George H., Red River Landing, La. "Dr. G. H. Tichenor's Antiseptic Refrigerant (for Wounds)"	3,183	May 1	23	1626
Timms, Henry, New York, N. Y. "Heil Anstalt," (for Medicinal Preparations)	3,684	Nov. 13	25	604
Tingle, R. D., Georgetown, Ky. "Cedrat Cold Cream," (for a Toilet Preparation)	3,789	Dec. 25	25	1194
Tooker, William W., and B. F. Huntting, Sag Harbor, N. Y. "Tooker's Castilian Laxative"	3,026	Feb. 27	23	744
Toppan, Nathaniel D., Brockton, Mass. "Percuro Cough Syrup"	3,027	Feb. 27	23	744
Townsley, A. L., Cincinnati, Ohio. "Hindoo Corn Remover"	2,985	Feb. 13	23	544
Tuchman Bros., Topeka, Kans. "Gov. Glick's Choice," (for Cigars)	3,108	Mar. 27	23	1126
Tuck, William H., Wilkes-Barré, Pa. "William Tucks Anti Costive Pills"	3,778	Dec. 18	25	1082
Tucker, John H., Providence, R. I. "Dealbarine," (for a fluid, removing spots & stains)	3,109	Mar. 27	23	1126
Turner, Frederick, Philadelphia, Pa. "The Blue Seal Label of Philadelphia," (for Cigars)	3,466	Aug. 21	24	708
Twitchell, Herbert E., Darrtown, Ohio. "Bradbury & Co's. Hog Cholera Preventative"	3,345	July 3	24	2
Tyson, L. B., Cincinnati, Ohio. "Bonkocine." (For Medicine)	2,986	Feb. 13	23	544
Udell, C. E., St. Louis, Mo. "Badger Stato." (for Cheese)	3,234	May 22	23	1930
Underberg-Albrecht, Hubert, Rheinberg, Prussia, Germany. "Boonekampe of Maag-Bitter" (for a Tonic Beverage)	3,567	Oct. 2	25	2
Union School Furniture Company, Battle Creek, Mich. "Automatic" (for School Furniture)	3,554	Sept. 25	24	1180
Union Tubing Company, New York, N. Y. "Union Tubing"	3,082	Mar. 13	23	942
Union Veteran Corps, Washington, D. C. "Union Veteran Corps Insignia"	3,474	Aug. 28	24	802
Upham, Harry M., Philadelphia, Pa. "Wine"	2,944	Jan. 30	23	348
Urban & Co., George, Buffalo, N. Y. "Urban's White Moss Rose" (for Flour)	3,496	Sept. 4	24	904
Urban & Co., George, Buffalo, N. Y. "Urban's Best" (for Flour)	3,497	Sept. 4	24	904
Urban & Co., George, Buffalo, N. Y. "Belle of Buffalo" (for Flour)	3,498	Sept. 4	24	904
Urban & Co., George, Buffalo, N. Y. "Pearl" (for Flour)	3,499	Sept. 4	24	904
Utica Match Company, Utica, N. Y. "The Best Matches"	3,649	Oct. 30	25	398
Vail Brothers, Philadelphia, Pa. "Titsworth's Sure Cure for Malaria"	3,218	May 15	23	1836
Van Keuren, J. A. & L. N., Bridgeport, Conn. "Waterproof Preservative Blacking"	3,083	Mar. 13	23	942
Van Brocklin, Eli, Amsterdam, N. Y. "German Red Cross Kidney Cure"	3,667	Nov. 6	25	506
Van Brunt, Cornelius, New York, N. Y. "Diamond Blue Label" (for Rosegrant's Patent, Chloride of Lime)	3,385	July 17	24	208
Van Liew, H. A., New York, N. Y. "Cloth of America" (for Silks)	3,235	May 22	23	1930
Vanderlinde, N. G., Muskegon, Mich. "Van's Magic Oil" (for a Medicine)	3,133	Apr. 10	23	1340
Vandewater, Albertus L. (See Parker, Vandewater, and Talmage.)				
Vega, Benito, New Orleans, La. "El Coro," (for Cigars)	3,293	June 12	23	2242
Vincent, George K., and M. Burchard, Rochester, N. Y. "Early York" (for Cigars)	3,412	July 31	24	394

Alphabetical list of registrants of labels — Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Vogeler, Winkelmann & Co., Baltimore, Md. "Hunt's Medicated Tar Drops"	3,050	Mar. 6	23	834
Von Huppmann, Joseph, New York, N. Y. "Turkish Tobacco & Cigarette Manufactory, Monopole"	3,075	Mar. 13	23	942
Walker, William, Richmond, Va. "Crack Shot" (for Cigars)	3,741	Dec. 4	25	886
Ware, Charles F., Camden, N. J. "Ware's Common Sense Suspensory Bandage"	3,441	Aug. 14	24	606
Warner Bros., New York, N. Y., and Bridgeport, Conn. "Base Balls"	3,199	May 8	23	1736
Warner Bros., New York, N. Y., and Bridgeport, Conn. "Base Balls"	3,200	May 8	23	1736
Warren, George T., Flint, Mich. "Our Govenor." (For Cigars)	3,051	Mar. 6	23	834
Warren, George T., Flint, Mich. "The Warren Cigar"	3,052	Mar. 6	23	834
Warren, Philip, Washington, D. C. "St. Jacobs Pills"	3,110	Mar. 27	23	1126
Waterall & Co., William, Philadelphia, Pa. "Red Seal White Lead"	3,084	Mar. 13	23	942
Watt, Harry C., Philadelphia, Pa. "Watt's Peptonized Soda Mint Pellets"	3,568	Oct. 2	25	2
Watts, Albert, Boston, Mass. "Dr. Al. Watts Purifier," (for a Disinfectant)	3,761	Dec. 11	25	984
Waugh, Cothren & Williams, Farmington, Me. "Farmington Sugar Corn"	3,698	Nov. 20	25	702
Weaver Bros., Allentown, Pa. "The North Western Traveling Men's Association" (for Cigars)	3,371	July 10	24	104
Weaver Bro's, Allentown, Pa. "Chicago and North Western Old Reliable Ry." (for Cigars)	3,413	July 31	24	394
Weaver Bro's, Allentown, Pa. "Emmett" "Dot's me." (for Cigars)	3,414	July 31	24	394
Webb, Horace F., Deering, Me. "Pleasant Mountain Sugar Corn Oriental Brand"	2,917	Jan. 16	23	196
Webb, J. Russell, St. Joseph, Mo. "Sentence-Builder or Dissected Cards"	3,699	Nov. 20	25	702
Webb, Jennie E., Grand Island, N. Y. "Asthma Conqueror"	3,500	Sept. 4	24	904
Webster & Churchill, Minneapolis, Minn. "Wheeler's Pulmonary Balsam"	3,247	May 29	23	2036
Webster & Churchill, Minneapolis, Minn. "Wheeler's Sarsaparilla"	3,248	May 29	23	2036
Weeman, Edward, Boston, Mass. "Antidotine" (for a Medicine)	3,462	Aug. 21	24	708
Weigel, John G., Washington, D. C. "K. L." (for Bread)	3,475	Aug. 28	24	802
Weismann & Muellenbach, New York, N. Y. "Muellenbach's Compound Balsam of Honey and Tolu"	2,945	Jan. 30	23	348
Welles, Frank M., Chelsea, Mass. "Safe Antidote for Intoxication"	3,762	Dec. 11	25	984
Wellman & Dwire Tobacco Company, Quincy, Ill. "Silver Dollar" (for Tobacco)	3,517	Sept. 11	24	998
Wellman & Dwire Tobacco Company, Quincy, Ill. "Knights of Labor" (for Tobacco)	3,518	Sept. 11	24	998
Wells, A. B., Richmond, Va. "Pluck" (for Manufactured Tobacco)	3,536	Sept. 18	24	1094
Wells, A. B., Richmond, Va. "Duplicate" (for Manufactured Tobacco)	3,629	Oct. 23	25	294
Wells, A. B., Richmond, Va. "Duplicate" (for Manufactured Tobacco)	3,630	Oct. 23	25	294
Wells, A. B., Richmond, Va. "Magnolia" (for Manufactured and Smoking Tobacco)	3,685	Nov. 13	25	604
Wells, A. B., Richmond, Va. "Eli" (for Manufactured Tobacco)	3,686	Nov. 13	25	604
Wemple & Co., New York, N. Y. "Spread Eagle." (for Retail Clothing)	3,219	May 15	23	1836
Wemple & Co., New York, N. Y. "Home," (for Cigars)	3,276	June 5	23	2124
Werdmüller, August, Hoboken, N. J. "Dr. Miller's Family Medicine." (for Stomach and Throat Diseases)	3,294	June 12	23	2242
West, John H., Rocky Hill Station, Ky. "Dr. West's O. K. Bitters"	2,907	Jan. 9	23	96
Westcott Son & Co., H., Binghamton, N. Y. "Parlor City" (for Cigars)	3,372	July 10	24	104
Westphal, Paul, New York, N. Y. "Auxiliator," (for a Hair Preparation)	2,908	Jan. 9	23	96
Whitcomb, Edwin P. and F. C., New York, N. Y. "Superior French Furniture Polish"	3,555	Sept. 25	24	1180
Whitcomb, Frances C. (See Whitcomb, Edwin P. and F. C.)				
White, Dorick, Weymouth, Mass. "Dorick's Salve"	3,134	Apr. 10	23	1340
White Proprietary Company, Peleg, New York, N. Y. "The Peleg White Proprietary, New York, U. S." (for Plasters)	3,646	Oct. 30	25	398
Whiteman, Frank M., Lorain, Ohio. "Sussex" (for Table Sauce)	3,386	July 17	24	208
Whiting, Frederic A., Wellesley Hills, Mass. "Whiting's Magic" (for Marking Ink)	3,631	Oct. 23	25	294
Whiting, Frederic A., Wellesley, Mass. "Whiting's Process Drawing Ink"	3,700	Nov. 20	25	702
Whitney & Co., Hudson, Mich. "The Boss" (For Wheelbarrows)	2,964	Feb. 6	23	440
Whitney, James H., Brooklyn, N. Y. "Elastic Motion Sewing Machine"	3,742	Dec. 4	25	886
Whittier, Heman J., Cincinnati Ohio. "Vitaline" (for a medicine)	3,135	Apr. 10	23	1340
Widup, Emmet S., Richmond, Ind. "The Correct Invoice Label"	3,201	May 8	23	1736
Wilcox, Algernon H., Philadelphia, Pa. "Pilla-Solvene" (for a Hair Solvent)	3,324	June 26	23	2416
Wilkens & Co., H., Baltimore, Md. "Dairy Queen" (for Smoking and Chewing Tobacco, Snuff and Cigarettes)	3,687	Nov. 13	25	604
Wilkens & Co., H., Baltimore, Md. "Seal of Virginia" (for Tobacco and Cigars)	3,722	Nov. 27	25	790
Wilkowski Brothers, Watertown, Wis. "Exchange" (for Cigars)	3,790	Dec. 25	25	1194
Williams, C. L., San Francisco, Cal. "Giant Cement" (for repairing broken articles)	3,537	Sept. 18	24	1094
Williams, C. L., San Francisco, Cal. "Joint Cement" (for repairing broken articles)	3,538	Sept. 18	24	1094
Williams, C. L., San Francisco, Cal. "Giant Baking Powder"	3,539	Sept. 18	24	1094
Williams, Charles F., and J. F. Payne, Newton, Mass. "Dr. Wm. Crowd's Cure for Rheumatism"	3,249	May 29	23	2036
Williams & Co., C. E., Stockton, Cal. "Moore's Sulphur Dip"	3,111	Mar. 27	23	1126
Williams, Cone, Jacksonville, Fla. "Necat" (Poison for Animals)	2,899	Jan. 9	23	96
Williams, Edward, Wellsville, N. Y. "Cabel" (for Cigars)	3,668	Nov. 6	25	506
Williams, Edwin R. T., Newark, N. J. "I Sing Lass," (for Isinglass or similar Merchandise)	3,584	Oct. 9	25	98
Wilson, Frederick H., Brunswick, Me. "Wilson's Cough Annihilator"	3,502	Sept. 4	24	904
Wilson & Gorman, Pittsburg, Pa. "Clothes Wringer Soap"	3,310	June 19	23	2330
Wilson & Gorman, Pittsburg, Pa. "Clothes Wringer Soap"	3,325	June 26	23	2416
Wilson, Thomas A., Lodi, Cal. "Nevajo Ague Cure"	3,169	Apr. 24	23	1532
Winckler, A. W., Hamburg, Germany. "Säkerhets-Tandstickor." (for Matches)	3,346	July 3	24	2
With, C. F., Springfield, Mass. "Dr. Balle's Hustena" (For Medicinal Preparation)	3,053	Mar. 6	23	834
Wolfean, Frederick, Galveston, Tex. "Fred. Wolfean's Golden Gate Tonic"	3,688	Nov. 13	25	604
Woodward, Orator F., Le Roy, N. Y. "Kemp's Balsam for the Throat & Lungs"	3,158	Apr. 17	23	1450
Wooster, Adams & Co., Wellington, Ohio. "Von Tagans Alaxine The Great German Remedy for the Liver, Kidneys, Stomach, Blood and Heart Affections"	3,005	Feb. 20	23	634
Wright, John H., Brooklyn, N. Y. "Doloricide" (for a Medicine)	3,440	Aug. 14	24	606
Wright, V. S., Louisville, Ky. "Virgil," (for Cigars)	3,202	May 8	23	1736
Wyly, A. C., Atlanta, Ga. "A. C. Wyly's Diamond Patent Flour"	3,743	Dec. 4	25	886
Wyly & Greene, Atlanta, Ga. "Perfect Pastry Patent Flour"	3,220	May 15	23	1836
Yale, Charles A., Wellsborough, Pa. "Grand Master" (For Cigar Boxes)	3,054	Mar. 6	23	834
Yale Cigar Manufacturing Company, C. A., Wellsborough, Pa. "Ashes of Roses" (For Cigars)	2,987	Feb. 13	23	544
Yannes, John, Freeland, Pa. "John Yannes' Bottle Mark"	3,650	Oct. 30	25	398
Yates, Odaville, and C. Saberhagen, Albuquerque, N. Mex. Ter. "Yates's Rocky Mountain Vegetable Compound"	3,689	Nov. 13	25	604
Young & Co., F. H., Miamisburg, Ohio. "Young's German Botanic Bitters"	3,463	Aug. 21	24	708
Zeigler, George W., Norwalk, Ohio. "The Science Carpet Sweeper"	3,464	Aug. 21	24	708

DISCLAIMERS.

Name, residence, and invention.	No.	Filed.	Official Gazette.	
			Vol.	Page.
Bass, George H., Wilton, Me.; disclaimer filed by patentee. Shoe	259,715	Dec. 12, 1883	25	1062
Bell, Alonzo, New York, N. Y., E. Y. Bell, Englewood, N. J., assignee; disclaimer filed by said assignee. Water-closets of railways	175,909	June 14, 1883	23	2330
Bostwick, Jabez A., New York, N. Y., assignor to Louis McMurray, Baltimore, Md., Edward M. Lang, and George Burnham, Jr., Portland, Me., trading as McMurray, Lang & Burnham; disclaimer filed by assignees. Soldering-iron. (Reissue)	8,466	Sept. 25, 1883	25	2
Brush, Charles F., Cleveland, Ohio, Brush Electric Company, assignee; disclaimer filed by patentee and assignee. Electric lamp. (Reissue)	8,718	Apr. 6, 1883	23	1450
Casamajor, Paul, New York, N. Y.; disclaimer filed by patentee. Filtering saccharine solutions, &c	270,634	Dec. 7, 1883	25	1062
Fetter, David F., assignor by mesne assignments to Excelsior Drive Screw and Bolt Company, New York, N. Y.; disclaimer filed by present assignee Fetter Drive Screw Company, New York, N. Y. Drive-screw. (Reissue)	8,121	Apr. 6, 1883	23	1450
Hayes, George, New York, N. Y. Skylight. (Reissue)	8,688	Jan. 15, 1883	23	274
Hebbard, Albert, Cambridge, Mass., assignor to himself and John P. Onderdonk, Philadelphia, Pa.; disclaimer filed by Sarah A. Hebbard, administratrix of Albert Hebbard, deceased, and John P. Onderdonk, assignee. Car-spring. (Reissue)	4,670	Mar. 9, 1883	23	1036
Hutchinson, Charles G., Chicago, Ill.; disclaimer filed by patentee. Bottle-stopper. (Reissue)	8,755	June 18, 1883	23	2416
Litzelmann, Victor, New York, N. Y., Max Ams, assignee; disclaimer filed by assignee. Extracting glycerine from fatty matter	267,753	Dec. 26, 1882	23	2
Mallory, George, Bridgeport, Conn., assignor to Mallory Manufacturing Company; disclaimer filed by assignee. Hat	74,392	Oct. 3, 1883	25	98
Pease, Charles F., Boston, Mass. Shade-pull	280,507	July 14, 1883	24	306
Rowers, Jesse, Chicago, Ill., assignor of part to John H. Edelmeyer and William C. Morgan, New York, N. Y.; disclaimer filed by assignees. Hod-elevator. (Reissue)	10,052	Oct. 27, 1883	25	506
Sharts, Theodore, New York, N. Y.; disclaimer filed by patentee. Vault-cover	138,204	Apr. 17, 1883	23	1532
Stoddard, John D., Centreville, Ind.; disclaimer filed by patentee. Boot or shoe sole	252,152	May 4, 1883	23	1836
Webster, Towner K., and John Chivill, Chicago, Ill., Webster and Comstock Manufacturing Company, assignee; disclaimer filed by said assignee. Screw-conveyer	276,103	June 13, 1883	23	2330
Westinghouse, John, Jr., Pittsburg, Pa., Westinghouse Air Brake Company, assignee; disclaimer filed by said assignee. Locomotive air-brake	144,005	Feb. 5, 1883	23	544
Wood, John H., assignor to Delaware Coal and Ice Company, Trenton, N. J., and Hamilton, Bailey, Harrisburg, Pa.; disclaimer filed by assignees. Wagon for unloading coal. (Reissue)	9,368	Sept. 14, 1883	24	1180

ALPHABETICAL LIST OF INVENTIONS.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Specification.	Drawing.	Volume.	Page.
Abdominal supporter	A. Galny	284,831	Sept. 11	826	230	24	1051
Abdominal supporter	C. A. Worden	283,734	Aug. 21	1523	430	24	790
Abrading-cylinder	J. L. Perry	285,666	Sept. 25	1834	524	24	1245
Abrading-machine	F. W. Coy	289,986	Dec. 11	764	215	25	1028
Abrasive-disk holder	L. D. Shepard	282,385	July 31	2596	713	24	473
Abrasive wheel	A. H. Rolfe	277,062	May 8	693	181	23	1751
Absorptive pad. Fibrous	D. Goff	271,625	Feb. 6	51	13	23	449
Accordion	W. H. Bendler	282,834	Aug. 7	429	121	24	576
Accordion	L. Bernhardt	286,679	Oct. 16	1134	305	25	221
Accordion	B. Berry	274,705	Mar. 27	1887	526	23	1183
Accordion	F. Gessner	277,264	May 8	938	251	23	1793
Accordion	O. Spaethe	277,368	May 8	1060	285	23	1815
Acid. Apparatus for concentrating sulphuric	S. T. McDougall	289,293	Nov. 27	1867	518	25	860
Acid. Apparatus for concentrating sulphuric	W. West	280,425	July 3	107	29	24	21
Acid. Apparatus for the manufacture of hydrated sulphurous	F. Carlisle	284,817	Sept. 11	812	226	24	1048
Acid from borates. Process of and apparatus for obtaining boracic	W. R. Robertson, Jr	274,660	Mar. 27	1832	509	23	1173
Acid from native borate of lime. Process and apparatus for obtaining boracic	J. B. Hobson	289,836	Dec. 11	583	162	25	995
Acid. Manufacture of cinnamic	C. Rudolph	276,888	May 1	455	.....	23	1706
Acid. Manufacture of sulphuric	T. D. Dotterer	270,763	Jan. 16	1164	333	23	242
Acid or partly acid fatty bodies. Treating	I. A. F. Bang and J. De Castro	290,835	Dec. 25	1865	.....	25	1237
Acid-tank	J. Withington	274,241	Mar. 20	1285	354	23	1071
Acids and chemicals. Apparatus for boiling	J. Hesch	275,041	Apr. 3	210	57	23	1262
Acids. Separation of nitric acid from a mixture of nitric and sulphuric	F. Jenssen	284,742	Sept. 11	722	201	24	1033
Adding-machine	W. H. Beatley	272,626	Feb. 20	1316	367	23	685
Adding-machine	P. Neary	276,866	May 1	429	114	23	1701
Adding-machine	A. Stettner, Jr	277,627	May 15	1374	371	23	1873
Adding-machine	J. N. Wilson	289,483	Dec. 4	142	39	25	911
Addressing-machine	C. D. White	270,714	Jan. 16	1102	315	23	230
Adjustable bracket	R. S. Redman	274,223	Mar. 20	1260	348	23	1066
Adjustable chair, desk, &c	J. A. Smith	283,430	Aug. 21	1167	328	24	729
Adjustable chair or seat. Suspended	H. S. Peck	285,665	Sept. 25	1834	523	24	1245
Adjustable elevator	G. Milliken	287,042	Oct. 23	1599	440	25	309
Adjustable hook	F. D. Thomason	274,672	Mar. 27	1849	515	23	1176
Adjustable reclining-chair	D. W. Miller	287,769	Oct. 30	2547	685	25	493
Adjustable table	E. Tix	270,263	Jan. 9	516	151	23	111
Adjustable table	J. S. Wilson	274,162	Mar. 20	1182	326	23	1052
Advertising	F. Marquart and W. P. Hooper	280,318	June 26	2094	589	23	2505
Advertising apparatus. Mechanical	S. E. Riblet	290,474	Dec. 18	1390	384	25	1147
Advertising-card	B. Dreyfuss	270,764	Jan. 16	1165	333	23	242
Advertising-card	H. R. Grace	279,866	June 19	1544	431	23	2401
Advertising-card rack	M. Umbdenstock	272,000	Feb. 6	511	137	23	528
Advertising device	W. De Meza	272,533	Feb. 20	1197	334	23	664
Advertising device	J. A. Knapp	284,025	Aug. 28	1906	534	24	868
Advertising device	J. Wrightaman	275,450	Apr. 10	770	205	23	1366
Advertising device. Automatic	A. Anderson	272,184	Feb. 13	743	205	23	580
Advertising device. Automatic	F. F. Gokey	279,936	June 26	1638	459 460	23	2424
Advertising device. Automatic	N. H. Power	282,925	Aug. 7	531	150	24	595
Advertising device, card and picture holder	E. W. Taylor	274,052	Mar. 13	1027	281	23	1018
Advertising device for cars	E. Kitz	288,578	Nov. 13	994	274	25	689
Advertising device. Revolving	I. J. French	272,174	Feb. 13	730	201	23	578
Advertising-fan	C. De Quillfeldt	278,410	May 29	2361	645	23	2061
Advertising-fan	A. Wiehl	290,827	Dec. 25	1857	513	25	1235
Advertising letter-paper and envelope	F. P. D'Opdorp	290,179	Dec. 11	988	279	25	1069
Advertising match-box	J. T. Appleberg	283,741	Aug. 28	1539	435	24	803
Advertising-stand	G. S. Starling	282,794	Aug. 7	384	108	24	567
Advertising-table. Automatic	A. G. Macdonell	283,408	Aug. 21	1135	321	24	717
Advertising-wheel	C. W. Hamill	285,357	Sept. 18	1463	412	24	1170
Advertising-windmill	T. B. Peacock	274,651	Mar. 27	1823	506	23	1171
Advertising-windmill	J. E. and G. S. Spencer	276,640	May 1	120	32	23	1647
Aerated-water apparatus	A. D., Jr., and L. W. Puffer	275,076	Apr. 3	255	71	23	1270
Aerial navigation. Apparatus for	J. C. R. De Souza	280,914	July 10	708	199	24	131
Aerial railway	D. R. Olmsted	287,458	Oct. 30	2122	576	25	412
Aerial ship	E. F. Falconnet	270,939	Jan. 23	1376	397 398	23	287
Aerial vessel	J. Ray	270,122	Jan. 2	341	100	23	70
Aging liquors. Process of and apparatus for	H. Glass	287,272	Oct. 23	1888	517	25	361
Aging whisky. Apparatus for	W. X. Stevens	272,346	Feb. 13	938	261	23	615
Agricultural boiler	S. N. Alford	285,541	Sept. 25	1687	475	24	1217
Agricultural boiler	F. Funk	286,805	Oct. 16	1289	349	25	249
Agricultural boiler	A. R. Nash and J. Sadler	284,884	Sept. 11	887	250	24	1062
Agricultural implement	P. S. Keele	282,644	Aug. 7	204	59	24	535
Agricultural implement	B. Lanoizelet	279,958	June 26	1664	467	23	2428
Agricultural implement. Combined	R. W. Rutherford	284,982	Sept. 11	1003	283	24	1064

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Agricultural implements. Spring-tooth for	N. Nilson	280,072	June 26	1803	507	23	2453
Agricultural machine	J. Bachelder	278,675	June 5	1	1	23	2125
Agricultural machine	F. Nishwitz	288,657	Nov. 20	1094	300	25	713
Agricultural machine. Combined	A. Bradford	277,982	May 22	1790	488, 489	23	1953
Ague. Composition for	T. A. Wilson	287,602	Oct. 30	2323	.....	25	451
Ague remedy	W. T. Killingworth	282,091	July 31	2212	.....	24	408
Ague remedy	C. L. Robinson	275,524	Apr. 10	866	.....	23	1392
Air and gas engines. Valve for	G. H. Reynolds	278,270	May 22	2159	593	23	2016
Air and steam trap	J. T. Kelly	286,446	Oct. 9	836	226	25	162
Air. Apparatus for producing currents of pure or carbureted	E. Vigreux	272,002	Feb. 6	513	138	23	529
Air. Apparatus for separating nitrogen from atmospheric	J. F. Bennett	281,002	July 10	818	228	24	151
Air brake. Compressed	A. Thayer and M. J. Connelly	283,534	Aug. 21	1282	359	24	743
Air-brake for cars and locomotives	P. Reilly	290,269	Dec. 18	1113	313	25	1099
Air-brake for railway-cars. Automatic	W. J. Ford. (Reissue)	10,296	Mar. 27	2109	586, 587	23	1220
Air-brake pressure-regulator	G. Westinghouse, Jr	270,528	Jan. 9	862	251	23	179
Air-compressing apparatus	J. J. Lawler	272,711	Feb. 20	1418	398	23	703
Air-compressing engine	F. Honigmann	288,435	Nov. 13	818	221, 222	25	658
Air-compressing machinery	G. H. Reynolds	272,771	Feb. 20	1496	421	23	717
Air-compressing machinery	T. Sturgeon	275,959	Apr. 17	1409	389	23	1484
Air-compressor	W. A. Babcock	280,997	July 10	810	226	24	150
Air-compressor	W. A. P. Bicknell	273,014	Feb. 27	1813	508	23	779
Air-compressor	G. R. Cullingworth	287,104	Oct. 23	1677	460	25	324
Air-compressor	W. T. Fox	285,743	Sept. 25	1943	550	24	1963
Air-compressor	T. F. Freeman	290,764	Dec. 25	1777	491	25	1222
Air-compressor	C. Moore	285,297	Sept. 18	1391	393, 394	24	1159
Air-compressor. Hydraulic	W. A. Babcock	287,358	Oct. 23	1995	544	25	381
Air-compressor. Hydraulic	H. Webster	286,751	Oct. 16	1223	330	25	237
Air-compressor valves. Device for operating	C. A. Bennett	283,955	Aug. 28	1799	509	24	851
Air-compressors. Inlet-valve for	G. R. Cullingworth	287,004	Oct. 23	1548	426	25	298
Air-compressors. Inlet-valve for	G. R. Cullingworth and C. W. Potter.	287,007	Oct. 23	1550	427	25	299
Air-compressors. Outlet-valve for	G. R. Cullingworth	287,005	Oct. 23	1548	427	25	298
Air-compressors. Pressure-regulator for	G. R. Cullingworth and C. W. Potter.	287,105	Oct. 23	1681	461	25	325
Air-compressors. Safety-governor for	G. R. Cullingworth	287,101	Oct. 23	1674	459	25	323
Air-compressors. Water-pump attachment for	C. W. Potter	287,325	Oct. 23	1957	534	25	374
Air-cooling apparatus	H. Kropff	271,716	Feb. 6	153	42	23	467
Air-cushioning device	S. Whitlock	284,524	Sept. 4	447	127	24	980
Air-engine	H. H. Burritt	278,397	May 29	2345	641	23	2058
Air-engine heater	J. A. Woodbury, J. Merrill, G. Patten, and E. F. Woodbury.	289,484	Dec. 4	142	39	25	911
Air-engine heater	J. A. Woodbury, J. Merrill, G. Patten, and E. F. Woodbury.	289,485	Dec. 4	143	40	25	911
Air for refrigerating and ventilating purposes. Cooling and distributing compressed	T. S. Very	275,964	Apr. 17	1415	390	23	1485
Air for refrigerating, freezing, &c. Apparatus for cooling	J. Chambers	280,131	June 26	1867	526, 527	23	2466
Air in buildings. Apparatus for moistening	G. D. Bancroft	287,898	Nov. 6	138	40	25	532
Air-motor	W. E. Eastman	278,228	May 22	2101	579	23	2007
Air motor. Atmospheric	B. J. Forster	274,305	Mar. 20	1364	374	23	1064
Air motor. Compressed	C. W. Potter	270,982	Jan. 23	1434	413, 414	23	295
Air-purifying device	O. B. Rowlett	283,724	Aug. 21	1512	427	24	783
Air-ship	G. Koch	282,647	Aug. 7	207	60	24	536
Air-trap for water-engines	G. Murray, Jr	286,551	Oct. 9	960	258	25	185
Alarm: *See* Bridge-alarm. Burglar-alarm. Clock-alarm. Door-alarm. Electro-magnetic alarm. Elevator-alarm. Fire-alarm. Fire and burglar alarm. Heat-alarm. Low-water alarm. Railway-alarm. Railway-crossing alarm. Railway safety-alarm. Telegraph-alarm. Till-alarm. Water-alarm.							
Alarm-lock	E. J. Masseron	279,409	June 12	1008	279, 280	23	2303
Alarm-lock	H. J. H. Schuett	275,527	Apr. 10	868	234	23	1382
Alarm-lock for jails. Pneumatic	I. Hodgson	275,656	Apr. 10	1034	279, 280	23	1411
Alarm-signal	H. A. Eaton. (Reissue)	10,295	Mar. 13	1092	301	23	1029
Album	A. J. Megee	281,102	July 10	935	261	24	173
Album and book clasp	R. R. Baker	278,762	June 5	106	30	23	2141
Album-clasp	T. M. Haas	277,722	May 15	1479	400	23	1892
Album-clasp	A. Pflüger	289,133	Nov. 27	1679	466	25	824
Album-clasp	L. Vorpahl and H. Pohl	289,363	Nov. 27	1956	544	25	877
Album for photographs, &c	V. J. Augir	271,765	Feb. 6	216	60	23	478
Album leaf. Photograph	R. Moser	290,648	Dec. 18	1615	444	25	1185
Alcohol and alcoholic liquors. Treating and ameliorating	A. Ralu, Fils	273,604	Mar. 6	469	.....	23	914
Alcohol and other crude spirits. Rectifying	H. Roussan and M. G. De Barbeyrac	272,585	Feb. 20	1264	.....	23	676
Alcohol. Process of and apparatus for purifying	J. Bendix	287,089	Oct. 23	1657	455	25	320
Ale-condenser	J. W. Evenden	278,525	May 29	2502	683	23	2086
Alkali. Packing caustic	T. C. Taylor	270,997	Jan. 23	1452	.....	23	299
Alkali. Packing caustic	T. C. Taylor	270,998	Jan. 23	1453	.....	23	299
Alkalies. Manufacture of	E. W. Parnell	283,508	Aug. 21	1260	.....	24	739
Alkalies. Manufacturing caustic	C. Löwig	274,619	Mar. 27	1786	.....	23	1164

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Alkaline bicarbonates. Preparing	E. N. Horsford and C. A. Catlin	270,668	Jan. 16	1043	.....	23	220
Alloy for coating metals	J. B. Jones. (Reissue)	10,415	Dec. 4	521	.....	25	977
Alloying iridium	J. Holland	285,895	Oct. 2	149	.....	25	29
Alphabet block and case	W. E. Crandall	275,329	Apr. 3	568	155	23	1322
Alum. Manufacture of porous zinciferous	C. V. Petraeus	269,957	Jan. 2	160	.....	23	34
Alumina. Manufacture of anhydrous	F. Gardair and T. Gladysz	282,878	Aug. 7	484	.....	24	586
Alumina. Manufacture of sulphate of	C. Semper	280,088	June 26	1823	.....	23	2457
Alumina. Manufacture of sulphate of	C. Semper	280,089	June 26	1824	.....	23	2457
Alumina. Manufacture of sulphate of	C. Semper	280,090	June 26	1824	.....	23	2457
Alumina. Producing	J. D. Darling	285,579	Sept. 25	1729	.....	24	1225
Aluminous cake. Manufacture of	C. Semper	271,371	Jan. 30	1920	.....	23	386
Aluminium from corundum, &c. Extracting	W. Frishmuth	282,621	Aug. 7	177	.....	24	531
Aluminium from corundum, &c. Extracting	W. Frishmuth	282,622	Aug. 7	178	.....	24	531
Amalgam. Retorting	C. A. Stetefeldt	279,840	June 19	1509	422	23	2395
Amalgamating and concentrating ores. Apparatus for	J. Alves	273,662	Mar. 6	537	144	23	926
Amalgamating and concentrating ores. Machine for	G. Dean	273,969	Mar. 13	933	256, 257	23	1002
Amalgamating and separating gold, &c., from their ores. Apparatus for	S. L. Trippe	271,162	Jan. 23	1647	474	23	331
Amalgamating apparatus	E. H. Gollings	287,431	Oct. 30	2088	567	25	405
Amalgamating apparatus	A. K. Huntington and W. E. Koch	281,629	July 17	1613	441	24	294
Amalgamating-furnace	W. E. Harris	273,275	Mar. 6	36	12	23	841
Amalgamating machine. Ore-	E. R. Lucas	272,726	Feb. 20	1438	403, 404	23	707
Amalgamating ores and sands containing gold	A. B. Paul	285,508	Sept. 25	1647	463	24	1209
Amalgamating ores. Apparatus for	E. Bollinger	278,861	June 5	260	75	23	2167
Amalgamating ores. Process of and apparatus for	C. E. Tripler	287,981	Nov. 6	241	68, 69	25	549
Amalgamating-pan	C. Gracey	284,293	Sept. 4	109	48	24	932
Amalgamating-pans. Shoe and die for	J. S. Johnson and M. Osborn	276,418	Apr. 24	1990	551	23	1591
Amalgamating the gold and silver in pulverized ores. Machine for	W. E. Harris	282,982	Aug. 14	595	168	24	613
Amalgamation. Obtaining precious metals from ores by	E. N. Riotte	289,781	Dec. 4	506	140	25	974
Amalgamator	J. Alves	273,003	Feb. 27	1800	504	23	776
Amalgamator	A. H. Bliss	279,319	June 12	876	244	23	2282
Amalgamator	A. C. Bowen	271,305	Jan. 30	1824	529	23	369
Amalgamator	H. Cook	277,889	May 22	1684	459	23	1935
Amalgamator	J. C. Daue and W. L. Card	284,392	Sept. 4	286	80	24	952
Amalgamator	J. T. Davis and I. Stead	281,982	July 24	2070	567	24	379
Amalgamator	G. Dean	286,791	Oct. 16	1270	344	25	245
Amalgamator	W. E. Harris	272,544	Feb. 20	1206	337	23	666
Amalgamator	W. and H. R. Hawkins	281,060	July 10	886	246, 247	24	164
Amalgamator	S. G. Lindsey	272,564	Feb. 20	1244	346	23	672
Amalgamator	W. T. McGinnis	274,211	Mar. 20	1247	343	23	1064
Amalgamator	H. B. Meech	277,316	May 8	1002	269	23	1805
Amalgamator	W. Moller	272,741	Feb. 20	1460	410	23	710
Amalgamator	W. Moller	272,742	Feb. 20	1461	410	23	711
Amalgamator	H. Moon	282,352	July 31	2550	701, 702	24	466
Amalgamator	E. W. Nelson and E. H. Cowles	280,069	June 26	1800	500	23	2452
Amalgamator	G. W. and W. L. Strong	278,059	May 22	1883	515	23	1970
Amalgamator	H. M. Thompson	282,131	July 31	2280	626	24	419
Amalgamator	J. M. Thompson	290,815	Dec. 25	1842	510	25	1233
Amalgamator	H. T. Vanderhoof	283,540	Aug. 21	1289	360, 361	24	745
Amalgamator	T. Walker	279,995	June 26	1703	478	23	2436
Amalgamator and concentrator	B. Tyson	270,156	Jan. 2	386	112, 113	23	78
Amalgamator and separator. Combined	T. R. Timby	281,651	July 17	1637	447	24	298
Amalgamator and settler	F. Morris	278,035	May 22	1859	507	23	1965
Amalgamator. Dry	I. Stead	273,775	Mar. 13	701	189	23	962
Amalgamator. Ore-	W. E. Harris	272,045	Feb. 13	574	155	23	551
Amber into a large block. Uniting small pieces of	B. Borowsky	288,300	Nov. 13	632	173	25	626
Amber. Manufacture of articles from waste	F. J. Kaldenberg	290,888	Dec. 25	1930	.....	25	1248
Ambulance	J. E. Wilkie	273,925	Mar. 13	883	241	23	993
Ammonia and its salts. Manufacture of	J. P. Rickman and J. B. Thompson	278,823	June 5	199	58	23	2157
Ammonia. Apparatus for the manufacture of	A. Feldmann	278,115	May 22	1951	535	23	1981
Ammonia. Apparatus for the manufacture of sulphate of	J. Coates	272,651	Feb. 20	1348	378, 379	23	691
Ammonia-engine	G. Sweanor	284,987	Sept. 11	1012	284, 285	24	1085
Ammonia from bone-black retorts. Apparatus for taking off	F. Oamer	287,570	Oct. 30	2269	615	25	441
Ammonia from its solution in the manufacture of ice, &c. Process of and apparatus for separating	G. O. Rinman	287,056	Oct. 23	1617	445	25	312
Ammonia. Process of and apparatus for making	T. B. Fogarty	288,323	Nov. 13	663	183, 184	25	631
Ammonia. Process of and apparatus for manufacturing	T. B. Fogarty	288,324	Nov. 13	668	184	25	631
Ammonia. Process of and apparatus for obtaining	F. Lorenz	277,041	May 8	666	174	23	1746
Ammoniacal liquors. Apparatus for purifying foul	J. Taylor	275,541	Apr. 10	884	239	23	1385
Ammoniacal salts. Manufacture of	E. H. Wardwell	273,411	Mar. 6	222	60	23	871
Anæsthetic. Liquefied	E. E. Murphy, Jr	275,511	Apr. 10	847	229	23	1379
Anæsthetic mixture	U. K. Mayo	283,800	Aug. 28	1613	.....	24	817
Anchor	L. T. Dickson	279,230	June 12	768	212	23	2264
Anchor	L. H. Rhoades	270,484	Jan. 9	795	232	23	165
Anchor	C. E. Willis	270,168	Jan. 2	402	116	23	82
Anchor catter and fisher	J. N. Purdy	284,979	Sept. 11	1001	282	24	1083
Androides or automaton shoe-factory	R. G. Shute	284,338	Sept. 4	219	61	24	941
Angle-iron	W. Lorey	280,841	July 10	629	177	24	117
Angle-iron. Bending	M. Mosler	283,136	Aug. 14	787	221	24	647
Animal cover or blanket	S. H. Boynton	284,803	Sept. 11	796	222	24	1045

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Animal matter. Apparatus for desiccating	H. Breer	286,897	Oct. 16	1408	386, 387	25	989
Animal-shears	E. D. and J. D. Benson	287,794	Nov. 6	7	3	25	508
Animal-shears	H. C. Chiles	281,454	July 17	1399	384	24	259
Animal-shears	L. D. Gleason and R. A. Holt	287,018	Oct. 23	1570	433	25	703
Animal-shears	W. M. Lindsey	284,968	Sept. 11	969	278	24	1081
Animal-shears	J. H. Orr	288,104	Nov. 6	390	110	25	575
Animal-trap	S. Ayres	282,482	Aug. 7	5	2	24	501
Animal-trap	C. F. Barrett	286,252	Oct. 9	581	159	25	116
Animal-trap	J. H. Brubaker	279,126	June 12	656	179, 180	23	2245
Animal-trap	H. C. Chadwell	275,995	Apr. 17	1454	401	23	1492
Animal-trap	J. H. Cook	281,461	July 17	1405	386	24	280
Animal-trap	J. G. Gilleland	288,225	Nov. 13	537	149	25	611
Animal-trap	F. Glasson	290,034	Dec. 11	824	232	25	1039
Animal-trap	G. W. Jolly	289,268	Nov. 27	1835	506	25	854
Animal-trap	C. A. Ketcham	285,754	Sept. 25	1957	554	24	1265
Animal-trap	C. H. Lutz	282,463	July 31	2700	742	24	491
Animal-trap	J. A. H. Marty	290,082	Dec. 11	880	250	25	1049
Animal-trap	J. H. and T. D. Morris	287,387	Oct. 23	2030	552	25	387
Animal-trap	J. H. and T. D. Morris	288,182	Nov. 6	481	133	25	591
Animal-trap	A. W. Paull	278,730	June 5	70	21	23	2136
Animal-trap	L. J. Phelps	275,786	Apr. 10	1197	328	23	1439
Animal-trap	W. H. Reed	284,759	Sept. 11	744	207	24	1036
Animal-trap	A. B. Smith	273,321	Mar. 6	101	30	23	851
Animal-trap	E. E. Thomas	269,972	Jan. 2	176	51	23	37
Animal-trap	T. B. Turley	271,952	Feb. 6	444	122	23	519
Animal-trap	A. W. Walker	283,171	Aug. 14	830	232	24	654
Animal-trap	G. B. Wood	280,431	July 3	116	31, 32	24	22
Animal-trap	T. B. Zeller	272,507	Feb. 20	1166	326	23	658
Animal-trap. Self-setting	G. Johannes and P. Cyphers	273,547	Mar. 6	395	106	23	901
Annealing cast-steel or iron	J. Henderson	284,550	Sept. 4	472	.....	24	985
Annealing-furnace	A. Mogren	285,426	Sept. 25	1556	438	24	1193
Annunciator and alarm system. Combined	E. A. Sperry	286,910	Oct. 16	1499	412	25	284
Annunciator and communicating apparatus. Electric	W. Humans	277,286	May 8	962	258	23	1798
Annunciator and fire-alarm. Electric	S. Van Benschoten and H. H. Johnson	282,016	July 24	2111	579	24	385
Annunciator and fire-alarm. Electric hotel	A. T. Hess	271,707	Feb. 6	143	40	23	465
Annunciator and fire-alarm. Electric hotel	A. T. Hess	288,570	Nov. 13	980	269, 270	25	686
Annunciator. Electric	E. Flint, Jr	283,590	Aug. 21	1353	378	24	757
Annunciator. Electric	F. Happersberger	289,411	Dec. 4	46	13	25	895
Annunciator. Electric	A. C. Palmer	289,552	Dec. 4	226	63	25	926
Annunciator. Electrical	D. A. McCormick	284,878	Sept. 11	882	247	24	1061
Annunciator. Hotel and burglar alarm electric	W. S. Corwin	289,233	Nov. 27	1797	497, 498	25	846
Annunciator. Oral	J. Ireland	269,860	Jan. 2	47	15	23	12
Annunciator. Oral	J. Ireland	280,930	July 10	738	205, 206	24	136
Annunciator. Telephone	F. B. Hazlett	279,946	June 26	1650	462	23	2426
Annunciator. Telephonic	G. L. Weaver	276,739	May 1	273	69	23	1671
Anthrachinone and alizarine. Purifying impure	J. Brönner	275,128	Apr. 3	329	91	23	1283
Antimony-furnace	A. Hudson	286,200	Oct. 9	515	142	25	105
Antimony. Producing golden sulphuret of	C. E. Parsons	278,816	June 5	186	.....	23	2154
Antiseptic	C. M. Pielsticker	281,554	July 17	1515	.....	24	279
Anvil	O. Dimock	281,847	July 24	1911	522	24	352
Anvil	J. Hamlin	278,237	May 22	2113	582	23	2009
Anvil. Punching and riveting	J. C. Rothbarth	277,511	May 15	1232	332	23	1851
Anvils. Constructing	W. C. McCarthy	277,311	May 8	997	268	23	1804
Anvils. Manufacture of	W. C. McCarthy	286,459	Oct. 9	848	230	25	165
Apple-mill	J. F. Patterson	275,939	Apr. 17	1300	382	23	1480
Apple-slicer	F. B. Pease	274,220	Mar. 20	1257	346	23	1065
Apple-slicer	H. A. and W. Tripp	283,686	Aug. 21	1465	412, 413	24	779
Apple-slicing machine	C. De Puy and E. H. Burghardt	269,835	Jan. 2	20	7	23	6
Apron. Workman's	S. D. Webb	277,178	May 8	844	223	23	1776
Arch	T. J. Lovegrove	271,344	Jan. 30	1874	543, 544	23	378
Arch and ceiling. Fire-proof	P. B. Wight	273,419	Mar. 6	230	62	23	873
Archery apparatus	C. P. and W. H. Goldey	273,510	Mar. 6	338	91, 92	23	892
Arm-rest	W. J. Butler	281,338	July 17	1247	346	24	233
Arm. Universal jointed	J. J. Greenough. (Reissue)	10,278	Jan. 30	2184	628	23	433
Armatures. Cylinder for rotary	J. F. Gilliland	276,024	Apr. 17	1491	410	23	1498
Armor for war-ships. Deflecting	N. B. Clark	282,498	Aug. 7	22	6, 7, 8	24	504
Artist's box	W. H. Brownell	275,882	Apr. 17	1328	365	23	1489
Asbestus and articles or goods made therefrom. Preparation of	J. B. Amyot	281,951	July 24	2033	.....	24	373
Asbestus cloth	H. W. Johns	290,239	Dec. 18	1073	300	25	1092
Ash-depositor	J. H. Hart	277,718	May 15	1475	399	23	1891
Ashes. Device for arresting dust from	W. H. Graham	281,867	July 24	1931	528	24	355
Asphaltum. Refining	E. J. De Smedt	286,396	Oct. 9	778	210	25	152
Assay-furnace	J. C. Tappeiner	272,599	Feb. 20	1283	357	23	679
Assorting-machine	S. M. Park	283,414	Aug. 21	1140	323	24	719
Atomizer	P. Chapelain	275,997	Apr. 17	1455	401	23	1493
Atomizer	W. Kennish	282,090	July 31	2212	608	24	408
Atomizer	B. F. Sutton	281,942	July 24	2022	553	24	371
Atomizer	W. A. Turner	276,940	May 1	533	138	23	1717
Attrition-mill	J. J. Newsom	288,724	Nov. 20	1187	324	25	737
Auger	H. Halligan and H. Rugg	278,539	May 29	2518	687	23	2089
Auger	I. T. Payne	270,977	Jan. 23	1429	412	23	994
Auger	J. Swan	279,204	June 12	740	203	23	2260
Auger	J. Swan	285,440	Sept. 25	1571	442	24	1195
Auger	J. L. Whiteside	277,966	May 22	1773	483	23	1950
Auger and bit blanks. Roller-die for making	C. O. Tinker	286,972	Oct. 16	1502	413	25	285

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Auger and gimlet	W. W. Brigg	270,200	Jan. 9	440	129	23	97
Auger and lifting and lowering device for well-curbing. Earth-	G. D. Pettingill	270,472	Jan. 9	783	229	23	163
Auger-bit	J. Swan	283,040	Aug. 14	676	190	24	627
Auger-bit	J. Swan	290,812	Dec. 25	1840	509	25	1232
Auger-bits and other boring-tools. Manufacture of	G. F. Stearns	288,676	Nov. 20	1121	308	25	717
Auger-bits. Machine for forming	W. L. Parmelee	286,554	Oct. 9	966	260	25	186
Auger-bits. Machine for twisting	W. Tucker	283,304	Aug. 14	996	279, 280	24	686
Auger-blanks. Machine for making	C. O. Tinker	280,098	June 26	1833	516	23	2459
Auger. Hollow	J. A. Rodman	266,964	Oct. 16	1492	410	25	283
Auger. Hollow	W. L. Stoddard	270,856	Jan. 16	1267	366	23	263
Auger. Portable steam	W. F. Leach	271,480	Jan. 30	2063	594	23	412
Auger. Post	J. E. Miles	283,010	Aug. 14	640	181	24	620
Auger. Post and well	E. Frazier and N. J. Edwards	284,956	Sept. 11	976	274	24	1078
Auger. Post-hole	M. J. Romine and D. P. Lee	283,283	Aug. 14	973	272	24	689
Auger. Post-hole	A. H. Swain	269,895	Jan. 2	86	26	23	19
Augers. Metal die for making	D. W. Harris	276,033	Apr. 17	1501	413	23	1499
Augers. Wringer-plate for twisting	G. G. Holley	276,043	Apr. 17	1514	416, 417	23	1501
Automatic double gate	J. Austin and R. Chamberlain	272,619	Feb. 20	1308	365	23	683
Automatic driving-gate	F. Willard	279,063	June 5	552	152	23	2218
Automatic gate	D. Hershberger	281,692	July 24	1704	463	24	315
Automatic gate	E. Little	276,434	Apr. 24	2009	557	23	1594
Automatic gate	W. Thornton and A. Ferris	288,601	Nov. 13	1024	281	25	695
Automatic gate	P. J. Wieland	271,963	Feb. 6	456	125	23	521
Automatic lubricator	W. S. Germeyer	280,736	July 3	491	136	24	85
Automatic register	J. R. Trott and J. W. McElvain	281,652	July 17	1638	447, 448	24	298
Automatic switch and cut-out	C. G. Perkins	287,321	Oct. 23	1953	533	25	373
Averaging-machine	W. S. Auchincloss	281,953	July 24	2034	556, 557	24	373
Awl. Belt	C. M. Lothrop and H. L. Hewins	289,009	Nov. 27	1526	422	25	797
Awl. Brad	J. H. Stickney	270,258	Jan. 9	511	150	23	110
Awning	A. J. Chandler	288,207	Nov. 13	516	143	25	606
Awning	W. Freeland	273,503	Mar. 6	331	90	23	891
Awning	E. W. Hastings	289,532	Dec. 4	199	56	25	921
Awning	F. Hoborst	289,772	Dec. 4	494	137	25	972
Awning	W. H. Isley	284,741	Sept. 11	721	201	24	1032
Awning	F. B. Mallory	284,872	Sept. 11	875	246	24	1060
Awning	J. Moynan	284,882	Sept. 11	885	249	24	1062
Awning	J. L. Rieger	272,772	Feb. 20	1499	422	23	718
Awning	J. L. Smith	286,495	Oct. 9	889	240	25	172
Awning	M. E. Stern	269,894	Jan. 2	85	25	23	18
Awning and curtain frame for boats	F. B. Mallory	270,448	Jan. 9	754	221	23	156
Awning-bracket	R. H. Rodgers	283,023	Aug. 14	658	186	24	624
Awning for decks of vessels	R. L. Robertson, Jr	273,315	Mar. 6	95	28	23	850
Awning for hop-pickers	J. Engle, Jr	276,791	May 1	339	90	23	1685
Awning-frame	G. Borst	275,573	Apr. 10	923	250	23	1392
Ax and tool handle guard	G. P. Morrill	279,582	June 19	1217	337	23	2344
Ax-handle	J. D. Blaker	271,303	Jan. 30	1823	529	23	369
Axes. Machine for making	E. Rogers	275,273	Apr. 3	497	137, 138	23	1311
Axle and box. Car	L. H. Roberts	278,048	May 22	1672	512	23	1968
Axle bearing. Car	I. P. Wendell	280,978	July 10	792	220	24	146
Axle-bearing for vehicles	C. J. Forsman	270,214	Jan. 9	464	135	23	101
Axle-bearing. Vehicle	A. E. Wallace	280,421	July 3	100	27	24	20
Axle-box	H. V. Appley	271,764	Feb. 6	215	60	23	477
Axle-box	F. D. Bliss	292,299	Nov. 13	631	173	25	626
Axle-box	R. Cartwright	273,463	Mar. 6	288	79	23	882
Axle-box	J. Kritch	270,903	Jan. 23	1333	385	23	280
Axle-box	P. Lincoln	282,539	Aug. 7	76	22	24	513
Axle-box	H. G. McGirr	272,293	Feb. 13	874	245	23	604
Axle-box	R. C. Parvin	288,851	Nov. 20	1335	366	25	755
Axle box. Car	J. R. Baker	269,995	Jan. 2	205	58	23	42
Axle box. Car	W. S. G. Baker	276,210	Apr. 24	1721	476	23	1545
Axle box. Car	W. S. G. Baker	282,149	July 31	2299	631	24	422
Axle box. Car	R. Brewer	285,217	Sept. 18	1301	366	24	1142
Axle box. Car	C. W. Coller	279,342	June 12	916	256	23	2288
Axle box. Car	N. H. Davis	273,473	Mar. 6	302	82	23	885
Axle box. Car	W. Don	282,780	Nov. 20	1246	342	25	739
Axle box. Car	S. R. Dyer	273,484	Mar. 6	313	85	23	887
Axle box. Car	J. G. Ernst	282,871	Aug. 7	475	134	24	585
Axle box. Car	J. Garland and J. Kenyon	278,698	June 5	28	8	23	2129
Axle box. Car	G. F. Godley	288,705	Nov. 20	1155	317	25	723
Axle box. Car	W. F. Grasaler	270,421	Jan. 9	717	212	23	150
Axle box. Car	H. Millholland	270,908	Jan. 23	1339	386	23	281
Axle box. Car	O. Pagan	287,572	Oct. 30	2271	616	25	441
Axle box. Car	F. J. Roberts	289,934	Dec. 11	698	196	25	1015
Axle box. Car	J. Schmelter	280,087	June 26	1822	513	23	2457
Axle box. Car	O. S. Stearns	282,796	Aug. 7	387	109	24	568
Axle box. Car	G. W. Sweeney	279,506	June 12	1122	310, 311	23	2320
Axle box. Car	P. Sweeney	270,262	Jan. 9	515	151	23	111
Axle box. Car	P. Sweeney	291,006	Dec. 25	2092	576, 577	25	1273
Axle box. Car	J. G. Thomas	288,890	Nov. 20	1381	381	25	764
Axle box. Car	J. Timms	277,382	May 8	1074	289	23	1818
Axle box. Car	E. Whiting	274,159	Mar. 20	1175	324, 325	23	1051
Axle box. Car	C. M. and R. M. Wood	273,928	Mar. 13	886	242	23	993
Axle box. Car	R. Zeppenfield	272,508	Feb. 20	1167	326	23	658
Axle-box lid. Car	J. R. Baker	270,172	Jan. 2	406	118	23	82
Axle-box lid. Car	J. R. Baker	283,691	Aug. 21	1470	414	24	780

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Axle-box lid. Car-	W. J. Ball	281,173	July 10	1026	287	24	188
Axle boxes. Dust-guard for car-	N. M. George	285,994	Oct. 2	266	74	25	50
Axle. Car-	H. C. Atkinson	277,825	May 15	1599	437	23	1914
Axle. Car-	M. O. Baldwin	275,323	Apr. 3	562	153	23	1391
Axle. Car-	G. W. Bedbury	275,324	Apr. 3	563	153	23	1322
Axle. Car-	G. W. Bedbury	284,800	Sept. 11	793	221	24	1044
Axle. Car-	C. E. Eaton	284,194	Sept. 4	48	14	24	913
Axle. Car-	W. S. Eberman	282,507	Aug. 7	37	11	24	507
Axle. Car-	G. Farnum	269,926	Jan. 2	123	36	23	26
Axle. Car-	J. Gambllee and J. F. Haring	273,506	Mar. 6	334	90	23	891
Axle. Car-	T. Meehan	284,462	Sept. 4	368	102	24	966
Axle. Car-	A. T. Peirce	285,509	Sept. 25	1649	463	24	1210
Axle. Car-	F. P. Smith	290,938	Dec. 25	1995	550	25	1259
Axle. Car-	A. Walton	287,202	Oct. 23	1803	494	25	346
Axle. Carriage-	C. S. Harper	276,174	Apr. 24	1678	464	23	1538
Axle. Carriage-	W. Jones	286,139	Oct. 2	440	120	25	82
Axle. Carriage-	L. W. Smith	283,034	Aug. 14	669	188	24	626
Axle cutter. Carriage-	T. Sherry	280,678	July 3	407	114	24	73
Axle for trucks. Stub-	A. B. Colton	289,752	Dec. 4	478	135	25	970
Axle for two-wheeled vehicles	F. Gilbert	284,626	Sept. 11	570	161	24	1007
Axle-gage	W. Buckeridge	278,868	June 5	969	77	23	2169
Axle-lubricator	W. H. De Kay	279,355	June 12	930	260	23	2291
Axle-lubricator	F. C. Hockensmith	273,990	Mar. 13	954	263	23	1005
Axle-lubricator	A. D. Howe	280,836	July 10	607	169	24	113
Axle-lubricator	E. L. Young and L. Dyer	272,398	Feb. 13	1018	284	23	627
Axle lubricator. Car-	A. B. and N. H. Davis	280,587	July 3	303	84	24	54
Axle lubricator. Car-	C. P. Holmes	273,991	Mar. 13	935	263	23	1005
Axle lubricator. Car-	L. D. Howard and A. Chance	290,987	Dec. 25	2068	569	25	1270
Axle lubricator. Car-	W. J. Jackson	284,209	Sept. 4	66	18	24	916
Axle lubricator. Car-	M. Mac Mahon	281,538	July 17	1496	411	24	276
Axle lubricator. Car-	F. M. Taneyhill	274,152	Mar. 20	1165	321	23	1049
Axle lubricator. Car-	S. J. Wallace	280,265	June 26	2025	570	23	2493
Axle lubricator. Car-	J. F. Webb	286,098	Oct. 2	394	108	25	72
Axle lubricator. Railway-car-	C. P. Holmes	278,904	June 5	430	118	23	2197
Axle nut. Carriage-	D. S. Hall	286,131	Oct. 2	431	117	25	80
Axle-skein	J. W. Anderson	290,511	Dec. 18	1444	399	25	1156
Axle-skein	T. Eberline	283,962	Aug. 28	1829	516	24	856
Axle-skein	A. C. Emmick	282,289	July 31	2466	679	24	451
Axle-skein	R. Lane	277,519	May 15	1320	354	23	1864
Axle-skein	A. H. Southworth	277,624	May 15	1372	370	23	1873
Axle-skeins. Machine for forming	A. C. Emmick	290,982	Dec. 25	2063	507, 568	25	1269
Axle-spindle brace	R. R. Spedden	274,230	Mar. 20	1269	350	23	1068
Axle. Vehicle-	M. E. Burris	271,571	Jan. 30	2168	625	23	430
Axle. Vehicle-	M. E. Burris	273,458	Mar. 6	282	76	23	882
Axle. Vehicle-	M. E. Burris	278,396	May 29	2344	641	23	2038
Axle. Vehicle-	W. Caswell	275,994	Apr. 17	1453	400	23	1492
Axle. Vehicle-	J. Folant	288,563	Nov. 13	972	267, 268	25	685
Axle. Vehicle-	W. H. Fowler	287,921	Nov. 6	166	48	25	536
Axle. Vehicle-	R. W. and W. Hubbard	287,438	Oct. 30	2098	570	25	407
Axle. Vehicle-	D. F. Hull	274,776	Mar. 27	1971	549	23	1197
Axle. Vehicle-	J. J. Maroney	271,489	Jan. 30	2073	597	23	414
Axle. Vehicle-	G. A. Mott	289,689	Dec. 4	394	113	25	956
Axle. Vehicle-	A. E. Smith	281,310	July 17	1212	335	24	228
Axle. Vehicle-	G. H. Williams	286,378	Oct. 9	733	196	25	144
Axle. Wagon-	J. M. Coombs	288,029	Nov. 6	303	85	25	559
Axle. Wagon-	S. R. Edney	290,760	Dec. 25	1773	490	25	1221
Axle. Wagon-	J. and P. Herrmann	287,675	Oct. 30	2414	651	25	469
Axle. Wagon-	A. Kimble	274,341	Mar. 20	1416	388	23	1093
Axle. Wagon-	F. Ulrich	278,755	June 5	99	28	23	2140
Axles. Device for truing	J. F. Thomas and W. Baker	270,916	Jan. 23	1348	388, 389	23	282
Axles. Self-adjusting bearing for car-	O. S. Stearns	281,157	July 10	1005	281, 282	24	184
Baby-carrier	J. H. Lancaster	278,437	May 29	2398	653	23	2067
Baby-jumper and swing	M. M. Raymond	279,432	June 12	1035	287	23	2307
Baby-walker	J. B. Dufour	283,222	Aug. 14	894	249	24	667
Baby-walker	J. Habegger	282,960	Aug. 14	503	168	24	614
Back-bands. Draft-chain loop for	J. C. Smither and J. D. Carlisle	289,157	Nov. 27	1707	475	25	829
Back-rest	A. W. Streeper	271,944	Feb. 6	434	119	23	517
Back-strap attachment	G. M. Bowen	277,669	May 15	1423	384	23	1882
Badge. Bouquet-	M. G. Carleton	273,666	Mar. 6	545	145	23	927
Bag: *See* Feed-bag. Filtering-bag. Hand-bag. Mail-bag. Paper bag. Traveling-bag.							
Bag and twine holder	W. R. Poage	288,853	Nov. 20	1337	367	25	755
Bag and twine holder	L. Steinberger	271,147	Jan. 23	1624	467	23	328
Bag, bale, and bundle tie	D. E. Ladd	281,704	July 24	1719	467	24	318
Bag-dumping machinery	E. W. Scott	274,664	Mar. 27	1839	511, 512	23	1174
Bag-fastener	C. W. Bradford	277,210	May 8	878	233	23	1782
Bag-fastener	C. W. Bradford	287,755	Oct. 30	2525	680	25	489
Bag-fastener	C. A. Brobst	281,663	July 24	1663	454	24	308
Bag-fastener	F. H. Ludington	285,908	Oct. 2	165	47	25	32
Bag-fastener	G. H. St. John	271,536	Jan. 30	2126	612	23	423
Bag filling and weighing machine. Combined	A. F. Johnson and J. P. Turner	290,240	Dec. 18	1074	300	25	1092
Bag-frame catch	E. C. Holmes	272,880	Feb. 27	1664	465	23	733
Bag-frames, &c. Catch for	W. Roemer	272,902	Feb. 27	1688	473	23	757
Bag-holder	N. Adams	277,654	May 15	1404	378	23	1879
Bag-holder	E. E. Alderman	277,654	May 15	1407	379	23	1879
Bag-holder	W. H. Dungan	286,793	Oct. 16	1275	344	25	246
Bag-holder	C. A. Gibbs	284,835	Sept. 11	832	233	24	1052

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bag-holder	H. W. Nelson	277,772	May 15	1544	420	23	1904
Bag-holder	L. Rohmer	290,114	Dec. 11	914	259, 260	25	1056
Bag-holder	W. E. Shellenberger	271,930	Feb. 6	421	115	23	514
Bag-holder	A. Sherman	285,692	Sept. 25	1870	533	24	1251
Bag-holder	C. T. Smith	275,086	Apr. 3	273	75	23	1273
Bag holder	D. F. Smith	289,721	Dec. 4	441	123	25	963
Bag-holder	L. Valentine	289,181	Nov. 27	1736	483	25	834
Bag holder and filler	D. R. Adkisson	271,759	Feb. 6	208	58	23	476
Bag-lock	D. S. Hammond	277,714	May 15	1473	398	23	1891
Bag-machine	H. F. Sawyer	271,922	Feb. 6	412	111, 112, 113	23	513
Bag or satchel	C. W. Jenks	287,680	Oct. 30	2419	652	25	470
Bag or satchel	L. Sanders	288,495	Nov. 13	898	244	25	671
Bag or satchel	C. Vehring	277,812	May 15	1584	433	23	1912
Bag or satchel lock	R. Flocke	287,114	Oct. 23	1091	463	25	327
Bags, &c., for protecting jewelry. Manufacture of	O. Thowless	286,346	Oct. 9	719	.....	25	141
Bag seam. Grain	E. Detrick	274,736	Mar. 27	1916	534	23	1188
Bagasse-furnace	I. A. Hedges	278,547	May 29	2526	689	23	2090
Bagasse-furnace	J. Hill	276,400	Apr. 24	1970	545	23	1587
Bagasse-furnace	J. C. Semones	284,246	Sept. 4	115	31	24	924
Bagasse-furnace	D. Wilde	284,101	Aug. 28	1997	556	24	884
Bagasse-furnace	E. Williams	281,218	July 10	1091	300, 301	24	200
Bagasse. Method of and furnace for burning green	J. C. Bidwell	285,103	Sept. 18	1167	327	24	1118
Bagasse-washing and saccharine-extracting machine	A. S. Wheeler	276,513	Apr. 24	2106	585	23	1611
Bail ear and lock. Combined	I. M. and J. W. Ross	275,410	Apr. 10	724	193	23	1359
Bails to pails. Ear for attaching	C. A. Wright	283,316	Aug. 14	1010	283	24	688
Bait. Artificial	H. Comstock	271,424	Jan. 30	1982	572	23	398
Bait. Artificial fish	E. F. Pflueger	272,317	Feb. 13	905	253	23	610
Bait. Artificial fish	E. F. Pflueger	284,056	Aug. 28	1938	542	24	873
Bait for fishing. Spoon	W. T. J. Lowe	276,055	Apr. 17	1527	420	23	1504
Bake-pan and steamer	A. C. Kasson	285,905	Oct. 2	162	46	25	32
Baking-pan	G. E. Clark	277,679	May 15	1434	386	23	1884
Baking-pan	H. Dyer	271,321	Jan. 30	1849	536	23	373
Baking-pan	I. H. Graham	272,679	Feb. 20	1379	388	23	696
Baking-pan	W. I. Lee	289,667	Dec. 4	365	103	25	951
Baking-pans. Manufacture of	S. J. Williams and H. Richey	271,388	Jan. 30	1937	560, 561	23	390
Baking-powder	W. P. Clotworthy	273,958	Mar. 13	921	.....	23	999
Balance	T. D. King	274,202	Mar. 20	1225	337	23	1060
Balance. Counter	O. Elwell	284,827	Sept. 11	823	229	24	1050
Balance. Duplex spring	N. A. L. J. Johannsen	269,941	Jan. 2	143	42	23	30
Balance-wheel	J. B. Tibbits	280,096	June 26	1629	514	23	2458
Balcony. Adjustable	W. Donegan	273,823	Mar. 13	759	206	23	972
Bale bands or ties. Cordage to be used for	S. Atkins	279,852	June 19	1525	.....	23	2398
Bale binder. Cotton	L. Burr	277,220	May 8	887	236	23	1784
Bale header. Cotton	L. C. Terry	282,801	Aug. 7	391	110	24	569
Bale-tie	A. Arnold	281,821	July 24	1877	513	24	346
Bale-tie	O. P. Fannin	278,787	June 5	151	45	23	2148
Bale-tie	J. W. Griswold	274,486	Mar. 27	1624	450	23	1136
Bale-tie	I. A. Kilmer	282,991	Aug. 14	608	172	24	616
Bale-tie	A. A. Southwick	277,367	May 8	1059	285	23	1815
Bale-tie	A. A. Southwick and F. A. Wittich	277,432	May 8	1135	306	23	1827
Bale-tie	W. R. Williamson	273,926	Mar. 13	884	241	23	993
Bale tie. Cotton	T. H. Dodge	280,725	July 3	465	133	24	83
Bale tie. Cotton	J. Ferguson	290,221	Dec. 18	1054	296	25	1089
Bale tie. Cotton	W. L. Jones	285,489	Sept. 25	1625	456	24	1205
Bale-tie fastening	W. A. Du Bois	290,549	Dec. 18	1491	412	25	1164
Bale-tie fastening	E. S. Lenox	280,636	July 3	359	100	24	63
Bale-tie tightener	G. A. Boughton	272,943	Feb. 27	1734	484	23	764
Bale-tie. Wire	J. R. Ashley	285,947	Oct. 2	217	61	25	41
Bale-tie. Wire	E. S. Lenox	272,891	Feb. 27	1676	469	23	755
Bale-tie. Wire	W. Young	285,338	Sept. 18	1435	405	24	1166
Bale-ties. Wire-bending machine for	C. D. Randel	271,514	Jan. 30	2104	605	23	419
Bales of pressed hay, cotton, &c. Binding	P. K. Dederick	275,366	Apr. 10	654	175	23	1346
Baling and packing away cotton	G. W. Grader	281,490	July 17	1442	395	24	266
Baling-press	J. H. Badgley	286,168	Oct. 9	474	131	25	99
Baling-press	A. H. Ballagh	277,439	May 15	1151	309	23	1837
Baling-press	K. W. Bennet	281,959	July 24	2045	560	24	375
Baling-press	E. J. Bennett	275,118	Apr. 3	313	87	23	1280
Baling-press	D. Boyer	286,771	Oct. 16	1246	337	25	241
Baling-press	W. O. Budd	285,007	Sept. 18	1049	294	24	1098
Baling-press	J. S. Davis	285,237	Sept. 18	1327	374	24	1146
Baling-press	P. K. Dederick	270,760	Jan. 16	1160	332	23	242
Baling-press	P. K. Dederick	271,811	Feb. 6	273	75	23	489
Baling-press	P. K. Dederick	271,812	Feb. 6	275	76	23	489
Baling-press	P. K. Dederick	280,456	July 3	150	40	24	28
Baling-press	P. K. Dederick	287,107	Oct. 23	1684	461	25	325
Baling-press	E. E. Fuller	288,937	Nov. 20	1435	395	25	774
Baling-press	T. G. Holloway	285,621	Sept. 25	1786	508	24	1236
Baling-press	J. McIver	276,615	May 1	85	23, 24	23	1642
Baling-press	C. B. Orton	280,325	June 26	2103	590	23	2506
Baling-press	A. C. Porter	284,894	Sept. 11	895	254	24	1064
Baling-press	W. H. Reynolds	286,846	Oct. 16	1345	368	25	259
Baling-press	J. A. Spencer	278,371	May 29	2316	634	23	2053
Baling-press	G. H. Sullivan	271,153	Jan. 23	1632	470	23	329
Baling-press	H. Tyack	273,407	Mar. 6	217	58, 59	23	870
Baling-press	J. Watson	283,838	Aug. 28	1655	467	24	824
Baling-press	R. W. Whitehurst	282,017	July 24	2113	579	24	386
Baling-press	G. F. Whitman	274,871	Mar. 27	2085	579	23	1216
Baling-press	P. Wright	289,364	Nov. 27	1957	544, 545	25	877

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Baling-press. Continuous	P. J. Kelley	282,089	July 31	2210	608	24	408
Baling-press packing attachment	J. R. Shepherd	277,619	May 15	1366	368	23	1872
Ball:							
See Base-ball. Billiard-ball. Game-ball. Return-ball.							
Ball-trap	N. Fischer	281,356	July 17	1273	353	24	238
Ballasting	F. G. Johnson	284,210	Sept. 4	68	19	24	916
Balloon	J. W. Emsley	276,012	Apr. 17	1474	407	23	1495
Balloon for wrecking purposes	J. W. Powers	284,667	Sept. 11	619	174, 175	24	1015
Balloon or aerial machine	A. Debayeux	282,060	July 31	2171	596	24	402
Baluster	W. J. Tait	278,200	May 22	2067	570	23	2002
Band-cutter	J. Allen	287,212	Oct. 23	1817	498	25	348
Band-cutter	W. B. Bowers	274,707	Mar. 27	1689	526	23	1183
Band-cutter	J. C. Burnes	275,463	Apr. 10	783	210	23	1368
Band-cutter	J. T. Shoup, Jr	284,765	Sept. 11	750	208	24	1037
Band-cutter and feeder	C. B. Scherer	289,030	Nov. 27	1556	429, 430	25	802
Bandage. Suspensory	C. F. Ware	286,657	Oct. 16	1103	297	25	216
Banjo	E. J. Cubley	274,915	Apr. 3	35	9	23	1232
Banjo	A. Lopes	280,839	July 10	626	176	24	116
Banjo	H. McCord	279,172	June 12	709	193	23	2254
Banjo	H. McCord	279,173	June 12	709	193	23	2254
Banjo	H. McCord	283,352	Aug. 14	1065	300	24	699
Banjo	T. Williams	288,905	Nov. 20	1396	385	25	767
Banjo-heads. Device for tightening	H. C. Tallmadge	288,679	Nov. 20	1125	309	25	718
Banjo tail-piece	W. A. Scollay	283,519	Aug. 21	1270	356	24	741
Bank-book. Depositor's	E. T. Moulton	287,045	Oct. 23	1602	441	25	309
Banker's case, note-book, &c	J. Casey	283,965	Aug. 28	1810	512	24	853
Bar:							
See Car draw-bar. Chain-bar. Claw-bar. Clothes-bar. Cutter-bar. Draft-bar. Draw-bar. Furnace fire-bar. Furnace grate-bar. Glazing-bar. Grate-bar. Harvester cutter-bar. Harvester sickle-bar. Mower and reaper cutter-bar. Mowing and reaping machine finger-bar. Planing-machine presser-bar. Rail-joint splice-bar. Railway-rail splice-bar. Railway-splice bar. Sash-bar. Skylight-bar. Sleigh draft-bar. Vehicle-seat bar. Vehicle-spring center-bar.							
Bar and pipe cutter	C. W. Lane	280,467	July 3	190	50	24	35
Bar or toggle	G. E. Adams	273,792	Mar. 13	718	195	23	966
Bars, &c. Apparatus for compressing, surfacing, and straightening	J. L. Lewis	290,077	Dec. 11	874	248	25	1048
Bars. Device for bending and shaping the ends of	J. H. Dougherty	281,470	July 17	1416	389	24	262
Bars. Machine for bending and straightening	J. H. Wells	279,618	June 19	1252	347	23	2351
Barber's chair	E. Berninghaus	270,572	Jan. 16	920	265	23	197
Barber's chair	H. A. Candrian	285,109	Sept. 18	1175	329	24	1119
Barber's chair	A. N. Hornung	286,611	Oct. 16	1046	292	25	206
Barber's-chair register	F. G. Lane	289,332	July 31	2533	694	24	462
Bark-conveyer	O. A. Lane	276,605	May 1	77	21	23	1641
Bark-cutter	J. Daigneau	278,686	June 5	99	4	23	2127
Bark-mill	L. Reed	282,771	Aug. 7	358	101	24	562
Barn. Stock-	B. Walton	288,896	Nov. 20	1388	383	25	765
Barrel	J. B. Bennette	284,267	Sept. 4	136	38	24	928
Barrel	J. Kantz	273,853	Mar. 13	795	216	23	979
Barrel	I. Swope	285,320	Sept. 18	1417	400	24	1163
Barrel-adjuster	W. E. Foreman	272,227	Feb. 13	797	222	23	590
Barrel-cover	H. C. Barnes	289,206	Nov. 27	1770	491	25	841
Barrel-cover	M. F. James	276,045	Apr. 17	1515	417	23	1502
Barrel-cover	F. G. Lane	278,563	May 29	2547	694	23	2093
Barrel-cover. Expansible	A. Swoboda	278,670	May 29	2677	733	23	2116
Barrel crozing, chamfering, and howeling machine	T. C. Seaman	284,245	Sept. 4	114	31	24	923
Barrel-finishing machine	W. L. Field	283,477	Aug. 21	1219	343	24	732
Barrel-former	T. L. Lee	290,334	Dec. 18	1197	335	25	1113
Barrel-head cutter	W. J. Smith	271,934	Feb. 6	425	116	23	515
Barrel-head fastenings. Tool for applying	F. L. Tetamore and S. E. Fordham	284,923	Sept. 11	934	263	24	1070
Barrel-head holder	J. Wade	273,646	Mar. 6	521	140	23	923
Barrel-head-strengthening device	J. C. Keefe	284,022	Aug. 28	1903	533	24	867
Barrel-heater	S. Anson	271,763	Feb. 6	214	59	23	477
Barrel-heater	M. C. Dann	288,213	Nov. 13	522	145	25	608
Barrel-heater	A. R. Hynson	284,018	Aug. 28	1899	532	24	867
Barrel-heater	P. Weidmann	282,814	Aug. 7	404	114	24	571
Barrel. Knockdown fruit-	C. E. Bartram	281,230	July 17	1111	306	24	210
Barrel-lining	P. Uyrich	290,721	Dec. 25	1722	475	25	1212
Barrel-making machine	J. Massie	285,285	Sept. 18	1378	389	24	1156
Barrel-making machine	J. S. O'Sullivan	275,072	Apr. 3	251	69, 70	23	1269
Barrel. Metallic coal-oil	J. W. Cuthbertson	284,950	Sept. 11	970	272	24	1077
Barrel or bin. Tilting	A. M. Herman	281,506	July 17	1458	400	24	269
Barrel-pitching machine	F. Wullen and C. Mayser	270,272	Jan. 9	594	154	23	113
Barrel-rack for storing and aging whisky	J. McMurtry and C. M. Johnson	271,892	Feb. 6	368	102	23	506
Barrel-trussing machine	W. L. Field	283,476	Aug. 21	1218	342, 343	24	732
Barrel. Ventilated	T. L. Lee	290,335	Dec. 18	1198	336	25	1114
Barrels. Fastener for retaining the heads and bottoms in	F. L. Tetamore and S. E. Fordham	275,544	Apr. 10	890	240	23	1386
Barrels. Process of and apparatus for setting up double-stave	M. C. Dann	289,393	Dec. 4	95	8	25	891
Base-ball	A. W. Boynton	288,766	Nov. 20	1236	338	25	737

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Pags.
Base-ball	S. D. Castle	281,238	July 17	1124	310	24	212
Base-ball	B. F. Shibe	272,984	Feb. 27	1778	497	23	772
Base-balls. Manufacture of	T. P. Taylor	277,809	May 15	1562	432	23	1911
Base-burning boiler. Portable	A. H. Fowler	271,621	Feb. 6	46	11, 12	23	449
Basin and water-closet valve	H. Smith	289,937	Dec. 11	701	197	25	1016
Basin. Catch	T. Gallat	279,374	June 12	963	267	23	2296
Basin for ships. Self-leveling	D. Wellington	270,595	Jan. 9	858	250	23	178
Basin. Wash	J. Bennor	289,496	Dec. 4	158	43	25	914
Basin. Wash	A. C. Hawes	279,943	June 26	1647	461	23	2425
Basin. Enameled iron wash	J. C. Milligan and J. Chaumont	285,645	Sept. 25	1811	515	24	1241
Basket	W. F. Benedict	278,856	June 5	252	73	23	2166
Basket	J. H. Marvil	273,864	Mar. 13	812	220	23	981
Basket. Clothes	C. Ferguson	276,377	Apr. 24	1940	537	23	1582
Basket. Folding	H. T. Morse	288,654	Nov. 20	1091	299	25	712
Basket-handle	J. H. McConnell and M. W. Chandler.	281,900	July 24	1975	541	24	363
Basket. Wicker	J. J. Hallock	282,516	Aug. 7	48	14	24	508
Basket. Wire	W. J. Moore	286,952	Oct. 16	1478	406	25	281
Bat and ball. Combined	W. L. Sweeten	286,570	Oct. 9	987	266	25	190
Bat-gathering attachment for cotton-condensers	F. C. Mann	271,488	Jan. 30	2072	597	23	414
Bath: *See* Portable bath. Steam bath. Swimming-bath. Vapor bath.							
Bath and wash tub	L. J. Groom	289,345	Nov. 27	1932	537	25	873
Bath-room	J. C. McLaughlin	275,837	Apr. 17	1271	349	23	1458
Bath-tub attachment	G. P. Bassett	285,378	Sept. 25	1495	421	24	1182
Bath-tub. Folding or cabinet	F. H. Fickett and J. W. Reid	281,255	July 17	1149	317	24	216
Bath-tub overflow-connection	A. P. Creque	286,270	Oct. 9	600	165	25	190
Bathing apparatus and commode. Combined	Q. S. Backus	275,011	Apr. 3	168	45	23	1254
Bathing apparatus. Vapor-generator for	H. T. Willis	286,666	Oct. 16	1113	300	25	218
Bathing-garment	L. Weil	286,660	Oct. 16	1105	298	25	216
Battery: *See* Chloride-of-silver battery. Electric battery. Galvanic battery. Secondary battery. Secondary electric battery. Secondary or storage battery. Storage battery. Thermo-electric battery. Voltaic battery.							
Battery box or vessel	E. T. Starr	282,795	Aug. 7	385	109	24	568
Battery-plate	W. Taylor and F. King	290,611	Dec. 18	1572	432	25	1178
Battery-screen	A. S. Hallidie	284,735	Sept. 11	713	199	24	1031
Batting. Fibrous	D. Goff	271,624	Feb. 6	50	13	23	449
Batting. Machine for rolling cotton	W. Hinchliffe	276,402	Apr. 24	1972	546	23	1588
Beading-tool	J. A. Traut	284,777	Sept. 11	764	213, 214	24	1040
Beamer	E. Cadigon	278,873	June 5	273	79	23	2170
Bean-assorting machine	C. N. Keeney	279,953	June 26	1657	465	23	2427
Beans. Staddle for drying	R. S. Morse	270,070	Jan. 23	1419	408, 409	23	293
Bearing. Adjustable anti-friction	G. A. and A. N. Parnall	290,601	Dec. 18	1559	429	25	1176
Bearing. Anti-friction	J. G. Avery	287,215	Oct. 23	1820	499	25	349
Bearing. Anti-friction	H. G. Yates	281,950	July 24	2032	556	24	373
Bearing. Anti-frictional	T. R. Ferrall	279,552	June 19	1184	327	23	2339
Bearing-plate	J. B. Armstrong	289,597	Dec. 4	284	79	25	937
Bearing. Self-lubricating	T. R. Ferrall	272,869	Feb. 27	1643	459, 460	23	750
Bed and spring. Spring	J. H. Shields	273,401	Mar. 6	209	56	23	869
Bed. Atmospheric	E. Blochman and G. R. Evans	272,116	Feb. 13	669	182	23	567
Bed attachment	W. T. Fuson	277,563	May 15	1299	349	23	1861
Bed-bottom	M. E. Graves	278,330	May 29	2259	619	23	2042
Bed-bottom	E. A. Haight and D. Williams	272,956	Feb. 27	1747	488	23	766
Bed-bottom	A. F. Miller	290,087	Dec. 11	886	251, 252	25	1050
Bed-bottom	H. A. Mueller	272,076	Feb. 13	611	166	23	558
Bed-bottom	S. E. Moore	275,690	Apr. 10	1073	292	23	1418
Bed-bottom	H. Roberts	275,523	Apr. 10	865	234	23	1382
Bed-bottom. Adjustable	J. W. Ogden	272,973	Feb. 27	1765	494	23	770
Bed-bottom. Folding spring	C. L. Mills	277,323	May 8	1012	271	23	1806
Bed-bottom spring	C. L. Mills	277,322	May 8	1011	271	23	1806
Bed-bottom. Spring	J. and R. Ainslie	277,652	May 15	1405	378	23	1879
Bed-bottom. Spring	A. Q. Allis	286,166	Oct. 9	473	131	25	99
Bed-bottom. Spring	I. Bair	289,493	Dec. 4	155	42	25	913
Bed-bottom. Spring	G. W. Fishering	275,476	Apr. 10	607	218	23	1372
Bed-bottom. Spring	C. H. Fitch	274,925	Apr. 3	48	13	23	1234
Bed-bottom. Spring	P. Fraser	288,223	Nov. 13	535	148	25	610
Bed-bottom. Spring	J. A. Gipe	273,063	Feb. 27	1871	525	23	789
Bed-bottom. Spring	E. W. Grafton	287,120	Oct. 23	1697	465	25	328
Bed-bottom. Spring	J. V. Gray	270,949	Jan. 23	1390	401	23	289
Bed-bottom. Spring	H. B. Howard	274,331	Mar. 20	1400	384	23	1090
Bed-bottom. Spring	A. L. Jaynes	275,661	Apr. 10	1040	281	23	1412
Bed-bottom. Spring	G. and A. Keenholts	270,811	Jan. 16	1219	351	23	253
Bed-bottom. Spring	J. M. Keith	275,668	Apr. 10	1049	284	23	1413
Bed-bottom. Spring	P. H. Keseberg	275,497	Apr. 10	830	225	23	1376
Bed-bottom. Spring	E. D. Laraway	283,903	Aug. 28	1731	488	24	836
Bed-bottom. Spring	E. D. Laraway	283,904	Aug. 28	1734	489	24	837
Bed-bottom. Spring	J. McPeck	275,928	Apr. 17	1376	379	23	1478
Bed-bottom. Spring	C. J. Mengel	282,746	Aug. 7	330	94	24	558
Bed-bottom. Spring	A. F. Purefoy	278,362	May 29	2305	631	23	2051
Bed-bottom. Spring	A. F. Purefoy	279,013	June 5	486	133	23	2206
Bed-bottom. Spring	D. Renshaw	271,517	Jan. 30	2108	606	23	420
Bed-bottom. Spring	D. Renshaw	274,823	Mar. 27	2022	563	23	1206
Bed-bottom. Spring	W. H. Shipman	272,167	Feb. 13	722	199	23	577
Bed-bottom. Spring	F. Spoehr	276,918	May 1	489	128	23	1711

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bed-bottom. Spring	W. D. Strowger	271,945	Feb. 6	435	119	23	517
Bed-bottom. Spring	S. P. Whitcomb	288,533	Nov. 13	939	256	25	679
Bed-bottom. Spring	J. D. Wilkinson	285,331	Sept. 18	1429	404	24	1165
Bed-bottom. Spring	J. Wishard	273,660	Mar. 6	535	144	23	925
Bed-bottoms. Device for stretching	I. Lorenzen	272,721	Feb. 20	1432	401	23	706
Bed-canopy. Folding	A. Steveley	277,372	May 8	1004	286	23	1816
Bed. Convertible sofa	R. E. Hammer	278,136	May 22	1984	545	23	1987
Bed. Cot	C. F. C. Hahn	290,418	Dec. 18	1308	364	25	1132
Bed. Cot	C. T. Segar	281,930	July 24	2008	550	24	369
Bed-coverings, &c. Manufacture of	T. M. Willey	274,690	Mar. 27	1869	521	23	1180
Bed. Folding	A. A. Allen	271,760	Feb. 6	209	58	23	476
Bed. Folding	L. Leeds	278,564	May 29	2547	694 695	23	2093
Bed. Folding	S. Lude	271,485	Jan. 30	2069	596	23	413
Bed. Folding	D. J. Powers	276,464	Apr. 24	2048	569	23	1601
Bed. Folding	C. Williams	272,502	Feb. 20	1158	325	23	657
Bed. Invalid	J. J. Bowker	277,208	May 8	876	232	23	1792
Bed. Invalid	A. P. Fobes	270,046	Jan. 2	257	74	23	52
Bed-lounge	F. Rentschler	287,165	Oct. 23	1751	480	25	338
Bed-lounge	N. H. Van Winkle	272,991	Feb. 27	1784	500	23	773
Bed-lounge	G. Weidemann	273,203	Feb. 27	2045	576	23	820
Bed or lounge. Folding	O. Stechhan	276,729	May 1	261	66	23	1669
Bed or pillow	E. Blochman and G. R. Evans	277,979	May 22	1787	487	23	1952
Bed-pan	F. Dickinson	280,360	July 3	25	7	24	7
Bed-rail-slat lock	J. H. Selby	275,718	Apr. 10	1106	302	23	1423
Bed-slat clamp	T. M. Sale	288,668	Nov. 20	1108	304	25	715
Bed-slat fastening	C. D. C. Bowers	277,541	May 15	1272	341	23	1857
Bed-slats. Device for fastening springs to	C. L. Ames and A. H. Frost	276,548	May 1	2	1	23	1627
Bed. Sofa	A. S. Burnham	278,870	June 5	270	78	23	2169
Bed. Sofa	B. F. Farrar	278,004	May 22	1823	498	23	1959
Bed. Sofa	W. D. Fisher	273,352	Mar. 6	149	41	23	850
Bed. Sofa	A. Häsler	277,721	May 15	1479	400	23	1892
Bed. Sofa	H. R. Plimpton	271,919	Feb. 6	407	110 111	23	512
Bed. Sofa and lounge	R. O. Peirce	274,368	Mar. 20	1448	397	23	1099
Bed. Spring	J. J. McCormack	270,453	Jan. 9	760	223	23	157
Bed. Spring	S. Pariseault	281,789	July 24	1838	502	24	338
Bed. Spring	W. Price	280,762	July 3	522	146	24	92
Bed. Spring	C. D. Rodebaugh	279,188	June 12	724	198	23	2257
Bed. Spring	G. Wenzell	277,639	May 15	1387	374	23	1856
Bed-spring	W. M. Davis	277,121	May 8	771	203	23	1764
Bed-spring	J. U. Fiester	279,731	June 19	1387	387	23	2374
Bed-spring	B. H. Hickok	276,818	May 1	367	97	23	1690
Bed-spring	E. A. Jones	276,421	Apr. 24	1993	552	23	1591
Bed-spring	J. A. Kienardt	277,136	May 8	797	209	23	1768
Bed-spring	P. R. Phillies	270,110	Jan. 2	324	95	23	66
Bed, &c., spring	S. F. Seely	276,901	May 1	471	124	23	1708
Bed-spring	C. Slack	290,126	Dec. 11	932	264	25	1059
Bed-spring	J. Walters	271,554	Jan. 30	2149	619	23	427
Bed-spring cover	D. S. Clark	280,918	Jan. 2	111	33	23	23
Bed. Wardrobe	H. S. Hale	277,566	May 15	1302	350	23	1861
Bedstead	J. A. D'Arman	284,017	Sept. 11	561	159	24	1005
Bedstead	J. T. Detterer	275,894	Apr. 17	1339	369	23	1471
Bedstead	G. W. Ellis	277,470	May 15	1187	318	23	1843
Bedstead	G. Gentle	275,187	Apr. 3	395	108	23	1294
Bedstead	H. A. Mueller	272,077	Feb. 13	613	166	23	558
Bedstead	W. J. Myers	272,078	Feb. 13	615	167	23	558
Bedstead	W. S. Winterbottom and J. Murray	280,704	July 3	439	125	24	78
Bedstead and table. Interconvertible	A. L. and C. A. Warner	277,637	May 15	1386	374	23	1876
Bedstead. Cabinet	F. C. Payne	279,426	June 12	1024	284	23	2305
Bedstead-fastening	C. H Goebel	270,051	Jan. 2	262	75	23	54
Bedstead-fastening	H. E. Swift	271,996	Feb. 6	508	136	23	523
Bedstead-fastening	B. A. Wilton	278,649	May 29	2653	726	23	2112
Bedstead. Folding	H. C. Bardwell	276,212	Apr. 24	1724	477	23	1546
Bedstead. Folding	A. Hodgson	283,485	Aug. 21	1236	347	24	735
Bedstead. Folding	R. F. Meissner	277,046	May 8	672	175	23	1747
Bedstead. Folding	V. A. Menuez	277,501	May 15	1222	329	23	1849
Bedstead. Folding	J. M. Montgomery, Jr	276,859	May 1	417	111	23	1699
Bedstead. Folding	T. T. Woodruff	276,546	Apr. 24	2148	598	23	1618
Bedstead. Invalid	G. F. Sargent	274,392	Mar. 20	1477	406	23	1104
Bedstead. Invalid	J. Q. A. Sargent	270,912	Jan. 23	1343	387	23	281
Bedstead. Invalid	R. T. White	276,515	Apr. 24	2108	586	23	1612
Bedstead-slat supporter	C. M. Woodin	273,332	Mar. 6	120	34	23	854
Bedstead. Sofa	T. Coleman	283,210	Aug. 14	881	246	24	664
Bedstead. Sofa	C. V. Stumpf	276,501	Apr. 24	2092	581	23	1609
Bedstead. Wardrobe	J. J. Adgate	269,985	Jan. 2	190	55	23	40
Bedstead. Wardrobe	J. J. Adgate	273,424	Mar. 6	236	64	23	874
Bedstead. Wardrobe	W. Donoghue	273,480	Mar. 6	309	84	23	886
Bedstead. Wardrobe	R. F. Meissner	270,327	Jan. 9	595	175 176	23	126
Bedstead. Wardrobe	J. Ruebsamen	274,226	Mar. 20	1263	349	23	1067
Bedstead. Wardrobe	F. Schmidt	281,144	July 10	993	277	24	182
Bedsteads, &c. Slat-support for	J. W. Hammerschmidt	275,202	Apr. 3	416	114	23	1298
Bee-hive	D. Bailey	283,554	Aug. 21	1307	366	24	748
Bee-hive	C. H. Bernheim	280,560	July 3	268	73	24	48
Bee-hive	G. Briggs	280,126	June 26	1861	525	23	2464
Bee-hive	J. H. Burrage	279,856	June 19	1533	428	23	2309
Bee-hive	A. F. Combs	275,328	Apr. 3	567	154	23	1322
Bee-hive	J. T. Denny	282,284	July 31	2460	678	24	450
Bee-hive	J. T. Fife and L. E. Mercer	271,197	Jan. 23	1693	489	23	337
Bee-hive	G. S. Fisk and H. K. Vergason	273,674	Mar. 6	558	148	23	929
Bee-hive	A. Fraley	290,022	Dec. 11	810	228	25	1036
Bee-hive	J. H. French	281,483	July 17	1436	393	24	265
Bee-hive	R. H. J. Hildreth	270,666	Jan. 16	1040	298	23	219

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bee-hive	G. K. Hubbard	270,803	Jan. 16	1208	348, 349	23	252
Bee-hive	E. H. Key	273,691	Mar. 6	580	154	23	933
Bee-hive	N. Lloyd, Sr	284,312	Sept. 4	190	54	24	937
Bee-hive	E. Meyer	289,683	Dec. 4	385	110, 111	25	954
Bee-hive	J. Phillips	272,975	Feb. 27	1769	495	23	770
Bee-hives. Moth-catcher for	L. Q. Holmes	284,014	Aug. 28	1894	531	24	866
Beer, &c. Air-pressure apparatus for forcing	W. T. Fox	270,944	Jan. 23	1384	400	23	288
Beer. Apparatus for regulating the fermentation of	C. Schunck	276,083	Apr. 17	1559	430	23	1509
Beer barrels, casks, &c. Device for tapping	P. Pauly	285,065	Sept. 18	1122	314	24	1110
Beer-chip	B. Rice	279,019	June 5	496	134	23	2207
Beer-chip	B. Rice	286,637	Oct. 16	1080	291	25	212
Beer-chip cutting and reaming machine	B. Rice	280,952	July 10	764	212	24	140
Beer-cooler	F. Richter	270,844	Jan. 16	1256	362	23	260
Beer-cooler. Swimming	J. Schathaus	280,405	July 3	81	22	24	17
Beer-cooling apparatus	W. Nussbeck	276,870	May 1	434	115	23	1702
Beer-cooling device	E. Sauser and M. Haller	289,717	Dec. 4	437	122	25	963
Beer-forcing apparatus	G. Engel	275,756	Apr. 10	1161	319	23	1432
Beer. Hermetic apparatus for racking	J. Pusch	274,516	Mar. 27	1665	463	23	1142
Beer. Process of and apparatus for brewing	J. J. Metzler	276,617	May 1	88	24	23	1643
Beer. Process of and apparatus for preserving and venting	P. Brady	281,963	July 24	2052	562	24	376
Beer, sirup, and distilled liquor. Manufacturing	A. E. and W. E. Feroe	292,619	Aug. 7	173	52	24	531
Bell	L. E. Clark	287,238	Oct. 23	1850	506	25	354
Bell	J. F. Wollensak	281,747	July 24	1775	483	24	327
Bell and fire-alarm system. Combined call-	C. E. Buell	286,529	Oct. 9	934	251, 252	25	180
Bell attachment. Sleigh-	G. W. Goff	280,305	June 26	2073	585	23	2503
Bell. Bicycle-	H. B. Hart	275,485	Apr. 10	816	221	23	1374
Bell. Bicycle-	E. M. Senseney	279,448	June 12	1052	291	23	2310
Bell. Call-	A. H. Jones	277,741	May 15	1500	407	23	1896
Bell. Call-	A. H. Jones	280,748	July 3	500	142	24	89
Bell. Car-	D. R. Hart and J. B. Geach	273,358	Mar. 6	156	44	23	861
Bell-cord coupling	C. H. Tumey	270,705	Jan. 16	1093	313	23	228
Bell. Door-	E. S. Bloomfield, Jr.	289,804	Dec. 11	538	150	25	987
Bell. Door-	W. S. Foster	279,370	June 12	959	266	23	2295
Bell. Door-	E. Lawson	286,714	Oct. 16	1181	318	25	229
Bell. Door-	W. Scranton	272,336	Feb. 13	929	258	23	613
Bell. Electric	C. F. De Redon	274,573	Mar. 27	1731	481	23	1154
Bell for bicycles. Alarm-	H. Serrell	285,933	Oct. 2	201	56	25	39
Bell. Gong-	H. W. Barnes	286,169	Oct. 9	476	131	25	99
Bell. Gong-	W. S. Foster	280,924	July 10	724	203	24	134
Bell. Gong-	G. B. Owen. (Reissue)	10,348	July 3	550	153	24	97
Bell. Horse-	A. D. Jacobus	278,709	June 5	43	13	23	2132
Bell. Letter-box	J. K. Ross	269,961	Jan. 2	165	48	23	35
Bell. Pneumatic door-	R. P. Garsed	282,186	July 31	2351	648	24	429
Bell. Polarized electric	W. J. Bowen	288,202	Nov. 13	512	142	25	605
Bell-pull	J. B. Boyle	285,961	Oct. 2	232	65	25	44
Bell-pull. Electric	F. J. Wall	282,246	July 31	2421	666	24	443
Bell-ringer. Steam	E. Lawson	276,185	Apr. 24	1690	467	23	1540
Bell-ringing apparatus. Pneumatic	R. Latowski	284,311	Sept. 4	189	54	24	936
Bell. Sleigh-	G. W. McClintock	282,344	July 31	2547	698	24	465
Bell. Street-car	J. T. Marett	284,032	Aug. 28	1912	536	24	869
Belt and bucket elevator	P. Okell	277,774	May 15	1546	420	23	1905
Belt conveyer. Endless-	W. R. Fowler	274,306	Mar. 20	1366	374, 375	23	1084
Belt conveyer. Endless-	E. H. Parker and C. Robinson	284,324	Sept. 4	205	57	24	939
Belt-coupling	C. Eibee	275,896	Apr. 17	1342	369	23	1472
Belt-coupling	A. Johnston	280,186	June 26	1923	541	23	2475
Belt. Driving-	C. C. Campbell	277,678	May 15	1432	386	23	1884
Belt. Electro-galvanic	G. E. Palmer	279,881	June 19	1561	436	23	2405
Belt-fastener	J. Bachmann	285,543	Sept. 25	1690	476	24	1218
Belt-fastener	H. Blake	282,258	July 31	2433	669	24	445
Belt-fastener	S. Budlong and W. O. Talcott	278,393	May 29	2340	640	23	2057
Belt-fastener	J. B. Conrad	279,716	June 19	1368	382	23	2371
Belt-fastener	H. C. Hart	272,685	Feb. 20	1387	389	23	697
Belt-fastener	H. C. Hart	281,058	July 10	885	246	24	164
Belt-fastener	H. Heaton	289,414	Dec. 4	50	14	25	895
Belt-fastener	C. I. Humphreys	270,673	Jan. 16	1050	300	23	221
Belt-fastener	D. Lovejoy	284,868	Sept. 11	870	244	24	1058
Belt-fastener	L. A. Roberts	286,072	Oct. 2	362	100	25	66
Belt-fastener	W. F. Wilkins	271,010	Jan. 23	1468	422	23	301
Belt-fastening	E. Maynz	281,708	July 24	1724	468	24	318
Belt-fastening	J. B. Norton	289,926	Dec. 11	692	194	25	1014
Belt-fastening	W. L. Potter	270,117	Jan. 2	333	98	23	67
Belt-fastening	M. A. Nye	276,620	May 1	93	25	23	1643
Belt. Galvanic	J. Rittig	276,078	Apr. 17	1552	428	23	1509
Belt-gearing	A. H. Kennedy	287,297	Oct. 23	1924	526	25	368
Belt-joint	E. L. Liedke	277,909	May 22	1705	465	23	1939
Belt-replacer	G. W. Emerson	289,793	Dec. 4	520	144	25	976
Belt roller. Endless-	R. S. Bacon	280,282	June 26	2045	575	23	2497
Belt-shifter	G. H. Motley	280,847	July 10	634	178	24	118
Belt-shifter	W. R. Santley	285,683	Sept. 25	1855	529	24	1249
Belt-shifter for elevators. Automatic	F. W. Fuller	290,674	Dec. 25	1652	455	25	1198
Belt-suspending device	J. M. Estabrook	290,219	Dec. 18	1050	295	25	1089
Belt-tie	C. Kennedy	283,491	Aug. 21	1241	348	24	736
Belt-tightener	A. Box	283,856	Aug. 28	1675	473	24	827
Belt-tightener	J. B. Conlan	282,500	Aug. 7	29	8	24	505
Belt-tightener	S. Kryzki	288,579	Nov. 13	994	274	25	690
Belt-tightener	J. Withington	280,276	June 26	2041	574	23	2496
Belt-tightener	G. H. Zschech	284,703	Sept. 11	671	189	24	1024
Belt-tightener. Automatic	F. W. Codding	283,572	Aug. 21	1336	373	24	753

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Belts and preventing their slipping. Compound for preserving	W. H. Durkee	277,017	May 8	633	.....	23	1740
Belts and pulleys. Operating	R. J. Olivey	289,440	Dec. 4	81	23	25	901
Belts and pulleys. Operating	R. J. Olivey	289,441	Dec. 4	82	23	25	901
Belts, &c. Mechanism for making	E. Brown	279,219	June 12	754	208	23	2362
Belts on shafting. Mechanism for preventing the lapping of	W. Hayes, Jr	272,687	Feb. 20	1390	390	23	698
Belts. Tool for connecting and disconnecting the ends of	G. H. Clark	287,417	Oct. 30	2072	563	25	402
Belting	E. M. Cross	274,280	Mar. 20	1331	367	23	1079
Belting	B. F. Goodrich	270,303	Jan. 9	562	165	23	190
Belting	J. Murphy	284,221	Sept. 4	84	23	24	919
Belting	J. K. Tullis	290,147	Dec. 11	954	270	25	1063
Belting. Device for joining the ends of leather	J. J. Brislin	272,523	Feb. 20	1182	330	23	661
Belting. Manufacture of	J. J. Haley	271,629	Feb. 6	59	16	23	450
Belting. Manufacture of	J. J. Haley	271,630	Feb. 6	60	17	23	450
Bench: *See* Shoe-maker's bench. Work-bench.							
Bench-clamp	T. Crispin	282,961	Aug. 14	577	163	24	610
Bench-dog	W. H. Stannard	282,792	Aug. 7	382	108	24	567
Bench-plate socket	J. H. Buckley	277,675	May 15	1429	385	23	1883
Berth. Automatic ship's	W. T. Milligan	277,321	May 8	1008	270, 271	23	1806
Berth-guard for sleeping-cars	H. S. Billings	272,520	Feb. 20	1179	329	23	661
Berth-lock for sleeping-cars	J. Kirby, Jr	271,667	Feb. 6	341	94	23	500
Berth. Self-leveling	A. P. Bickmore	276,341	Apr. 24	1898	526	23	1575
Berth. Self-leveling	J. H. Laskey	270,064	Jan. 2	298	89	23	61
Berth. Self-leveling	J. H. Laskey	288,822	Nov. 20	1300	356	25	748
Berth. Self-leveling	F. Lebacq	282,649	Aug. 7	209	61	24	536
Berth. Self-leveling	B. F. Merrill	284,879	Sept. 11	862	248	24	1061
Berth. Self-leveling	C. A. Milligan and M. J. Killion	273,581	Mar. 6	442	119	23	910
Berth. Self-leveling	L. D. Newell	276,867	May 1	430	115	23	1702
Berth. Self-leveling	J. H. Porter	276,874	May 1	436	117	23	1703
Berth. Self-leveling	J. H. and E. F. Porter	278,732	June 5	73	22	23	2137
Berth. Self-leveling ship's	D. Parks	280,233	June 26	1986	558, 559	23	2486
Berth. Self-leveling ship's	W. Wells	280,977	July 10	792	220	24	145
Berth. Sleeping-car	A. Davis	279,137	June 12	670	184	23	2348
Berths. Counter-balance for folding steps for	S. D. Castle and A. Skaats	286,998	Oct. 23	1540	424	25	997
Berths. Governor for swinging	W. Wells	279,619	June 19	1253	347	23	2351
Berths. Swinging arm for securing folding steps to movable	S. D. Castle and A. Skaats	285,569	Sept. 25	1717	485	24	1293
Bessemer converter	S. G. Thomas	274,055	Mar. 13	1030	292	23	1019
Bessemer plant	W. Hainsworth	272,683	Feb. 20	1383	389	23	697
Bessemer plant	W. Hainsworth	284,005	Aug. 28	1892	528	24	864
Bessemer process. Basic	J. Reese	278,363	May 29	2308	.....	23	2052
Betanaphthol. Production of sulpho-acid compound of	H. Endemann	277,864	May 15	1649	.....	23	1923
Bevel	L. S. Starrett	289,463	Dec. 4	106	31	25	905
Bevel. Carpenter's	J. B. Cumming and B. F. Van Amringe.	278,405	May 29	2355	643	23	2060
Bevel. Carpenter's	C. E. Overend	282,560	Aug. 7	107	32	24	519
Bevel. Cooper's	J. F. Lonergan	270,086	Jan. 2	300	89	23	61
Beveling colters, &c. Machine for	R. C. Nugent	272,082	Feb. 13	620	168	23	559
Beveling instrument	L. S. Starrett	282,583	Aug. 7	132	39	24	523
Beveling the edges of metal plates. Machine for	E. H. Johnston	275,666	Apr. 10	1046	283	23	1413
Beverages. Apparatus for rapidly cooling and straining mixed	W. J. Wright	272,506	Feb. 20	1165	326	23	658
Beverages. Treating unmalted cereals for the manufacture of fermented	F. Licht	288,076	Nov. 6	355	.....	25	568
Bicycle	J. Beale	280,558	July 3	263	71	24	48
Bicycle	J. B. Girard	281,489	July 17	1441	395	24	266
Bicycle	W. S. Hambly	290,576	Dec. 18	1528	421	25	1171
Bicycle	H. Kellogg	283,612	Aug. 21	1374	384	24	761
Bicycle	D. Kennedy	287,943	Nov. 6	194	56, 57	25	541
Bicycle	W. Klahr	285,821	Oct. 2	46	15	25	10
Bicycle	E. G. Latta	280,633	July 3	354	98, 99	24	62
Bicycle	J. Lewis	286,835	Oct. 16	1330	363	25	256
Bicycle	R. S. and J. W. McCall	280,054	June 26	1783	500	23	2449
Bicycle	C. P. Padmore	288,849	Nov. 20	1333	365, 366	25	754
Bicycle	S. A. Potter	287,717	Oct. 30	2472	666	25	480
Bicycle-lock	W. Kenfield and H. M. Stilwell	276,600	May 1	71	20	23	1640
Bicycle-saddle	T. J. Kirkpatrick	278,560	May 29	2541	693	23	2092
Bicycle-seat	J. L. Wilson	274,163	Mar. 20	1183	326	23	1053
Bicycle-spring	E. K. Hill	275,910	Apr. 17	1356	374	23	1474
Bicycle performances. Fire-wheel for	J. B. Elliott	288,413	Nov. 13	794	215	25	654
Bicycle riding-platform	J. B. Elliott	288,414	Nov. 13	795	216	25	654
Bicycle-saddle	H. B. Hart	285,891	Oct. 2	145	41	25	98
Bicycle-saddle	T. J. Kirkpatrick	289,272	Nov. 27	1838	507	25	854
Bicycle-seat	B. F. Peet	290,919	Dec. 25	1965	543	25	1254
Bicycles. Backbone-coupling for	R. C. Scherling	285,685	Sept. 25	1857	530	24	1249
Bicycles. Ball-bearing for	A. E. Schaaf	287,476	Oct. 30	2146	583	25	417
Bilge-water indicator	J. M. Fennerty	274,474	Mar. 27	1586	435	23	1131
Bill holder. Play	P. J. Worn and P. A. O. Kober	286,757	Oct. 16	1231	332	25	238
Bill-journal	J. J. De Garis and T. L. Paine	289,514	Dec. 4	180	50	25	918
Billet and buckle-fastener	C. A. Draper	289,816	Dec. 11	553	155	25	990
Billiard-ball	A. R. Kuschke	275,923	Apr. 17	1371	377	23	1477
Billiard-cue	S. J. Gleason	278,934	June 5	394	108	23	2190
Billiard-cue	W. Zaehringer	286,670	Oct. 16	1121	302	25	219
Billiard-cue clamp	C. Munzner	285,360	Sept. 18	1466	413	24	1171
Billiard-cue tips. Machine for fitting	T. Lomas	282,741	Aug. 7	328	93	24	557
Billiard-cue trimmer	W. B. Gwyn	284,548	Sept. 4	470	133	24	984

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Billiard-cues. Attachment for holding tips on	D. Dessauer	270,402	Jan. 9	696	206	23	145
Billiard-cushion	S. De Gaetano. (Reissue)	10,322	May 8	1142	307	23	1829
Billiard-cushion	S. May	283,129	Aug. 14	781	219	24	646
Billiard or pool tables. Pocket-fastening for	G. J. Book	273,447	Mar. 6	267	72	23	878
Billiard-table	M. Ludwig	280,198	June 26	1939	545	23	2478
Billiard-table cushion	H. W. Collender	275,592	Apr. 10	942	256	23	1396
Billiard-table cushion	H. W. Collender	275,593	Apr. 10	944	256	23	1396
Billiard-table leveler	W. M. Dawson, R. A. Simpson, and L. S. Longcor.	287,913	Nov. 6	155	45	25	535
Billiard-table leveler	T. Eubank	285,739	Sept. 25	1938	549	24	1262
Billiard-tables. Chalk-replacing device for	F. R. Williams	282,476	July 31	2714	747	24	493
Bin: *See* Flour-bin. Lime-bin.							
Binder for pamphlets, &c	H. S. Williams	274,429	Mar. 20	1521	418	23	1112
Binder or holding device	W. R. Clough	272,650	Feb. 20	1347	378	23	691
Binder or holding device	W. R. Clough	276,001	Apr. 17	1460	402	23	1493
Binder. Self-	W. N. Whiteley, W. Bayley, and L. H. Lee.	274,071	Mar. 13	1058	292	23	1023
Binder. Self-	W. N. Whiteley, W. Bayley, and L. H. Lee.	283,445	Aug. 21	1183	332, 333	24	725
Binder. Temporary	A. S. Bunker	272,028	Feb. 13	552	149	23	548
Binder. Temporary	C. Jackson	282,527	Aug. 7	64	19	24	511
Binder. Temporary	O. C. Mackenzie	280,199	June 26	1941	545	23	2478
Binder. Temporary	E. J. Paxson	283,653	Aug. 21	1418	397	24	770
Binders. Knotting mechanism for self-	W. N. Whiteley and W. Bayley	274,870	Mar. 27	2084	579	23	1216
Binding-post	W. R. Patterson	279,274	June 12	821	227	23	2274
Bird-cage	A. B. Hendryx	277,724	May 15	1481	401	23	1892
Bird-cage bathing attachment	S. P. Park	276,871	May 1	434	115	23	1703
Bird-cage food-holder	H. Ireland	270,071	Jan. 2	285	84	23	58
Bird-cage spring	W. D. Chapman	279,081	June 5	573	157	23	2222
Bird-cage sunshade	H. Bishop	290,838	Dec. 25	1867	516	25	1237
Bird-perch	F. L. Gregory	276,392	Apr. 24	1962	543	23	1586
Bit: *See* Auger-bit. Boring-bit. Bridle-bit. Driving-bit. Expanding rose-bit. Expansion-bit. Router-bit.							
Bit	E. Hall	287,538	Oct. 30	2221	603	25	432
Bit-brace	J. Chantrell	284,276	Sept. 4	147	41	24	929
Bit-brace	E. C. Merryman	273,122	Feb. 27	1947	546	23	802
Bit-brace	J. Watson	288,748	Nov. 20	1215	332	25	733
Bit-brace and washer-cutter. Combined	I. W. Heysinger	286,610	Oct. 16	1042	292	25	206
Bit-brace fastening	E. E. Rose	275,860	Apr. 17	1300	357	23	1463
Bit-brace. Ratchet	W. R. Clarkson	286,388	Oct. 9	764	207	25	149
Bit-stock	C. H. Amidon	283,844	Aug. 28	1663	469	24	825
Bit-stock	W. J. Bayrer	277,105	May 8	752	197	23	1760
Bit-stock	E. Buell	289,502	Dec. 4	165	45	25	915
Bit-stock	J. Chantrell	284,275	Sept. 4	145	40	24	929
Bit-stock	F. Grant	290,607	July 3	324	91	24	58
Bit-stock	W. A. Ives	270,072	Jan. 2	286	85	23	58
Bit-stock	G. C. Paine	286,840	Oct. 16	1336	365	25	257
Bit-stock	W. L. Parmelee	281,920	July 24	1997	547	24	367
Bit-stock	H. V. Smith	274,040	Mar. 13	1012	277	23	1016
Bit-stock	H. V. Smith	274,041	Mar. 13	1013	278	23	1016
Bits. Extension-shank for	C. Schoch	281,568	July 17	1530	419	24	280
Bitters. Tonic	H. Litz	289,673	Dec. 4	373	.....	25	952
Bituminous compounds. Apparatus for melting and mixing	B. D. Healey	277,277	May 8	952	256	23	1796
Blackboard	O. M. Mitchell	281,112	July 10	949	266	24	175
Blackboard	N. F. Potter and W. H. Fenner, Jr.	290,651	Dec. 18	1617	.....	25	1186
Blackboard. Portable	K. W. Whittemore and L. J. Couch.	288,145	Nov. 6	433	122	25	583
Blackboard-rubber	J. Dooner	283,870	Aug. 28	1695	477	24	830
Blackboard. School-	H. Hanstein	278,010	May 22	1830	500	23	1960
Blacking apparatus and chair combined. Shoe-	E. S. Farson	275,621	Apr. 10	991	268	23	1403
Blacking-box holder	F. N. Lacey	283,256	Aug. 14	942	263	24	675
Blacking-box holder	C. E. Skinner	283,428	Aug. 21	1166	327	24	722
Blacking case. Boot-	F. J. Triggs	276,542	Apr. 24	2144	596	23	1617
Blacking frame. Boot-	G. Irving, Jr	273,545	Mar. 6	394	105	23	901
Blacking. Water-proof preservative	J. A. Van Keuren	272,606	Feb. 20	1290	.....	23	680
Blacksmiths' fullers. Die for making	J. F. Duffy	277,468	May 15	1184	318	23	1843
Blank, form, &c. Printed	J. O. Cole	289,892	Dec. 11	653	181, 182	25	1007
Blanket. Bed-	J. Holland	271,461	Jan. 30	2039	587	23	408
Blanket-pin	S. F. Merritt	277,318	May 8	1004	269	23	1805
Blankets. Putting up	D. A. Swaney	287,394	Oct. 23	2041	555	25	388
Blast apparatus. Continuous-	D. T. Porter	280,079	June 26	1812	510	23	2454
Blast-furnace	J. J. Fronheiser	292,512	Aug. 7	43	13	24	507
Blast-furnace	W. Kent	273,742	Mar. 13	647	172	23	953
Blast-furnace	P. L. Weimer	287,204	Oct. 23	1805	495	25	346
Blast-furnace for burning gaseous fuel	L. D. York	288,607	Nov. 13	1029	283	25	696
Blast-furnace plant	J. Reese	273,311	Mar. 6	87	26	23	849
Blast-furnaces. Apparatus for charging	F. W. Gordon	290,037	Dec. 11	828	234	25	1039
Blast-furnaces. Hot-blast stove for	C. Alger	289,952	Dec. 11	719	203	25	1019
Blast-furnaces. Hot-blast stove for	H. W. Ellicott	276,790	May 1	338	90	23	1685
Blast-furnaces. Water-bosh for	A. F. Wendt	277,638	May 15	1387	374	23	1876
Blast-pipe ventilator	J. Devine	270,182	Jan. 2	416	121	23	85
Blasting-needle	R. B. Platt	288,110	Nov. 6	398	112	25	576
Blasting out stumps	H. D. Van Campen	270,351	Jan. 9	624	184	23	132
Blasting. Self-setting tamp for	H. E. Dennett	282,061	July 31	2172	596	24	402
Blasting-tool	H. and L. Iwan	288,706	Nov. 20	1157	318	25	723
Bleaching and dyeing fibrous materials	A. Higgins and F. Wilkinson	273,078	Feb. 27	1885	529	23	791
Bleaching palm-oil, &c	B. T. Babbitt	281,823	July 24	1879	513	24	346
Bleaching threads and fabrics	L. A. Delabove	280,141	June 26	1880	.....	23	2468
Blind	M. J. Bird	285,104	Sept. 18	1168	327	24	1118

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Blind and door spring	P. K. O'Lally	283,649	Aug. 21	1415	396	24	769
Blind and shutter	H. L. Page	287,712	Oct. 30	2466	664	25	478
Blind bars and slats. Frictional connection for window-	N. Edwards	280,156	June 26	1894	533	23	2470
Blind-fastener	A. C. Dunham	272,417	Feb. 20	1052	295	23	639
Blind for skylights	O. N. Medgarden	274,013	Mar. 13	986	270	23	1011
Blind. Inside	W. Teuteberg	289,176	Nov. 27	1724	481	25	833
Blind-slat fastener	G. W. Soulé	272,914	Feb. 27	1699	475	23	759
Blind-slat operator	F. Nelson	284,222	Sept. 4	85	24	24	919
Blind-slats. Machine for making	J. W. Brainard	283,372	Aug. 21	1098	309	24	710
Blind slats. Metallic pivot for window-	B. F. Hall	279,379	June 12	971	269	23	2297
Blind-stop	G. Beverly	273,937	Mar. 13	900	246	23	995
Blind-stop	T. M. Brintnall	274,881	Mar. 27	2100	583	23	1218
Blind-stop	J. Hunt	275,492	Apr. 10	894	223	23	1375
Blind-stop	L. Tilton	277,381	May 8	1073	289	23	1817
Blind-stop	C. F. Vandervoort	279,111	June 5	632	171	23	2230
Blind support. Window-	W. W. S. Orbeton	272,751	Feb. 20	1472	414	23	713
Blind. Venetian	J. S. Smith	279,835	June 19	1504	420	23	2395
Blind. Window-	J. B. Hartman	289,832	Dec. 11	575	161	25	994
Blind. Window-	J. Williams	275,557	Apr. 10	902	245	23	1388
Blind. Window-	J. Williams	283,941	Aug. 28	1782	503	24	847
Block: *See* Brake-block. Building-block. Geometrical block. Harness-pad block. Head-block. Paving-block. Pillow-block. Pulley-block. Railway-switch block. Saw-mill head-block. Seine purse-block. Snatch-block. Stereotype-block. Toy block. Toy building-block.							
Block-facing machine	J. Y. Simons	287,478	Oct. 30	2148	584	25	418
Block or brick pressing machine	J. Bennor	289,882	Dec. 11	638	177, 178	25	1005
Blocks. Machine for consolidating loose materials into solid	J. H. Wagner	290,293	Dec. 18	1143	320, 321	25	1104
Blocks, &c., out of asphalt, &c. Machine for the manufacture of	A. Dietz	289,397	Dec. 4	29	9, 10	25	892
Blood, or medical manipulator. Device for increasing the organic action of the	J. Rice	285,160	Sept. 18	1239	348	24	1130
Blotter	L. H. Binkley and T. H. Wright	289,608	Dec. 4	294	82, 83	25	939
Blotter	J. Q. Davis and N. O. Pyles	290,668	Dec. 25	1645	453	25	1197
Blotter, calendar, and rule. Combined	W. L. Caldwell	282,702	Aug. 7	286	80	24	549
Blower	W. S. Sharpneck	271,139	Jan. 23	1616	465	23	326
Blower	W. H. Wigmore	284,698	Sept. 11	665	187	24	1023
Blower	J. Woodruff	270,271	Jan. 9	524	154	23	113
Blower. Fan-	C. Hammelmann	270,897	Jan. 23	1324	382	23	278
Blower for fire-places. Transparent	J. W. Edmonds	280,154	June 26	1893	533	23	2470
Blower. Grate-	C. A. Preston	278,736	June 5	77	23	23	2137
Blower. Injector-	P. H. Grimm	282,074	July 31	2190	601	24	405
Blower. Rotary fan-	W. D. Smith	272,595	Feb. 20	1275	356	23	678
Blower. Steam-	W. McClave	281,774	July 24	1815	496	24	335
Blowers, &c. Friction-lock for lever fan-	J. W. Hiemenz	277,487	May 15	1206	324	23	1846
Blue. Manufacture for anthracene-	H. Brunck	274,081	Mar. 13	1070	.....	23	1025
Board: *See* Blackboard. Bosom-board. Bulletin-board. Center-board. Cooling-board. Dash-board. Electric switch-board. Electric-circuit switch-board. Electrical switch-board. Foot-board. Game-board. Ironing-board. Marble-playing board. Musical-instrument sounding-board. Pastry-board. Piano sounding-board. Plow mold-board. Pressing-board. Stove-board. Tally-board. Telephone switch-board. Vehicle dash-board. Wash-board. Water-closet splash-board.							
Boat: *See* Canal-boat. Dumping-boat. Folding boat. Life-boat. Outrigger-boat. Row-boat. Sectional boat. Self-bailing boat. Stern-wheel boat. Submarine boat. Torpedo-boat. Towing-boat.							
Boat-cover. Detachable	J. H. Mansfield	277,146	May 8	806	212	23	1770
Boat-detaching apparatus	E. J. Hill and J. L. Clark	272,253	Feb. 13	827	231	23	596
Boat-detaching apparatus	R. Roberts	288,862	Nov. 20	1345	369	25	757
Boat-detaching apparatus	T. H. Sellers	275,529	Apr. 10	870	235	23	1383
Boat hoisting, detaching, and lowering	F. Vaughan	282,937	Aug. 7	544	154	24	597
Boat-hull	T. T. Hodson	290,232	Dec. 18	1066	298	25	1091
Boat-knee	D. True	272,603	Feb. 20	1286	358	23	679
Boat-knee	D. True	280,884	July 10	673	190	24	126
Boat-knee	D. True	286,870	Oct. 16	1370	375	25	283
Boat-knee	D. True. (Reissue)	10,270	Jan. 9	917	264	23	188
Boat-knee socket	D. True. (Reissue)	10,345	June 19	1591	445	23	2410
Boat-knees, &c. Joint for	J. W. Sanborn	287,057	Oct. 23	1618	446	25	312
Boat-outrigger	W. E. Bond	276,220	Apr. 24	1732	479	23	1547
Boat-plug	L. J. Baker	277,102	May 8	746	196	23	1750
Boat-plug	G. W. Renton	275,270	Apr. 3	493	137	23	1310
Boats. Building veneer	E. G. Durant	272,663	Feb. 20	1362	382	23	693
Boats. Obstruction-indicator for	W. R. Ansorge	275,974	Apr. 17	1428	394	23	1488
Bobbin	G. H. Allen	289,794	Dec. 11	527	147	25	985

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bobbin-spindle and support therefor	J. E. Tynan	279,674	June 19	1326	368	23	2363
Bobbin-spindle whirl	G. Jaquith	284,429	Sept. 4	330	92	24	959
Bodies. Method of and appliance for disposing of dead	I. W. Heysinger	285,034	Sept. 18	1089	304	24	1105
Boiler:							
See Agricultural boiler. Base-burning boiler. Coffee-boiler. Cooking-boiler. Culinary boiler. Egg-boiler. Heating-boiler. Locomotive-boiler. Return-flue boiler. Sectional boiler. Sectional safety-boiler. Steam-boiler. Steam-motor boiler. Straw-burning boiler. Tubular boiler. Vertical multitubular boiler. Wash-boiler.							
Boiler	O. S. Backus	279,905	June 26	1596	447	23	2417
Boiler	A. P. Creque	290,667	Dec. 25	1643	452	25	1197
Boiler	G. C. Morgan	280,392	July 3	65	17	24	14
Boiler and other furnaces. Steam-	O. D. Orvis	273,299	Mar. 6	72	20, 21	23	846
Boiler and steam cooker	J. C. Edward and J. G. Bisset	284,729	Sept. 11	706	198	24	1030
Boiler and steam vacuum-pump. Combined	C. L. Riker	287,579	Oct. 30	2289	619	25	445
Boiler-cleaner	G. A. Chapman	273,026	Feb. 27	1828	512	23	781
Boiler-cleaner	J. F. Hotchkiss	276,410	Apr. 24	1981	548	23	1589
Boiler-cleaner	J. F. Hotchkiss	276,411	Apr. 24	1982	549	23	1589
Boiler-cleaner	J. McGinley	286,724	Oct. 16	1192	321	25	231
Boiler-covering	H. Armstrong and J. A. Loudon	287,994	Nov. 6	262	.....	25	553
Boiler-covering	H. C. Goodell	274,933	Apr. 3	64	17	23	1236
Boiler-explosions. Apparatus to prevent	L. Simkins	281,803	July 24	1854	507	24	342
Boiler explosions. Preventing	T. C. Fawcett and J. C. Hargreaves	282,292	July 31	2468	680	24	451
Boiler-feeder	E. Del Valle	285,585	Sept. 25	1739	491	24	1227
Boiler fire-box	E. P. Bates	273,012	Feb. 27	1811	507	23	778
Boiler for generating steam. Compound	C. D. Cowan	282,276	July 31	2455	676	24	449
Boiler-front	N. W. Pratt	273,600	Mar. 6	464	125, 126	23	914
Boiler-furnace	H. Cowell	275,805	Apr. 17	1233	338	23	1452
Boiler-furnace	W. A. Greene	271,627	Feb. 6	55	15, 16	23	450
Boiler-furnace	W. P. Hall	283,708	Aug. 21	1495	421	24	784
Boiler-furnace	E. W. Vanduzen	270,157	Jan. 2	389	113	23	79
Boiler-furnace attachment	G. S. Gilbert	283,338	Aug. 14	1041	292	24	694
Boiler-furnace grate. Moving	D. C. Hill	276,691	May 1	202	52	23	1659
Boiler furnace. Steam-	J. Abell	273,421	Mar. 6	232	63	23	873
Boiler furnace. Steam-	E. Clark	282,845	Aug. 7	444	125	24	578
Boiler furnace. Steam-	F. H. Kane	273,099	Feb. 27	1923	539	23	797
Boiler furnace. Steam-	F. Livet	288,079	Nov. 6	359	99, 100	25	569
Boiler furnace. Steam-	A. Ritter, Jr	290,270	Dec. 18	1114	313	25	1099
Boiler furnace. Steam-	J. G. Sextro	276,903	May 1	473	124	23	1709
Boiler furnace. Steam-	R. L. Slater	277,361	May 8	1054	283	23	1814
Boiler furnace. Steam-	B. Sloper	285,366	Sept. 18	1475	415	24	1173
Boiler furnace. Steam-	B. Topmiller	274,854	Mar. 27	2055	573	23	1212
Boiler furnace. Steam-	E. W. Vanduzen	278,637	May 29	2638	721	23	2109
Boiler furnace. Steam-	C. H. and S. S. Wilson	272,504	Feb. 20	1161	325	23	658
Boiler furnaces. Locomotive and other	J. A. Gano	274,482	Mar. 27	1620	449	23	1135
Boiler furnaces. Locomotive and other	J. A. Gano. (Reissue)	10,396	Oct. 23	2051	557	25	391
Boiler-hoe	J. Preston	280,951	July 10	763	211	24	140
Boiler or other furnace. Steam-	C. Gearing	276,576	May 1	44	13	23	1635
Boiler safety attachment	D. Sullivan	275,091	Apr. 3	277	76	23	1274
Boiler setting and furnace. Steam-	T. R. Butman	279,331	June 12	900	252	23	2286
Boiler-tube expander. Conical	J. Scully	290,273	Dec. 18	1118	315	25	1099
Boiler-tube stopper	W. F. Smith	277,365	May 8	1057	284	23	1815
Boiler-tubes. Closing	E. J. Moore	278,998	June 5	468	128	23	2203
Boiler-tubes. Implement for expanding and cutting	J. Lohges	270,446	Jan. 9	753	221	23	156
Boiler-tubes. Tool for expanding the ends of	J. F. Dettmar	284,618	Sept. 11	562	159	24	1006
Boiler use. Purifying water for	C. B. Dudley	283,472	Aug. 21	1215	.....	24	731
Boilers. Anti-incrustation attachment for	G. C. Fisk	285,248	Sept. 18	1338	377	24	1148
Boilers. Apparatus for purifying water for	C. Elliot	271,821	Feb. 6	286	78	23	491
Boilers. Apparatus for returning and feeding water to	T. J. Kieley	273,367	Mar. 6	171	47	23	863
Boilers. Making	W. L. Brownell	290,905	July 10	698	196	24	130
Bolt:							
See Door-bolt. Expanding-bolt. Flour-bolt. Flour and meal bolt. Plow-bolt. Thill-coupling bolt.							
Bolt	B. J. Hardin	282,077	July 31	2193	602	24	406
Bolt	S. Hubbell, Jr	274,121	Mar. 20	1131	311	23	1043
Bolt	J. N. Spencer and T. H. Dunn	284,253	Sept. 4	123	34	24	925
Bolt and nut lock	C. Carleton	277,408	May 8	1102	296	23	1822
Bolt and nut package	S. T. Riker	282,370	July 31	2579	708	24	470
Bolt-cuttor	E. Amelotte	285,868	Oct. 2	110	33	25	22
Bolt-cutter	A. Blowers	275,015	Apr. 3	172	46	23	1255
Bolt-cutter	J. H. Kennedy	274,490	Mar. 27	1639	456	23	1138
Bolt for chilled mold-boards	J. Du Shane	274,743	Mar. 27	1926	536	23	1190
Bolt-forging machine	O. C. Burdict	285,876	Oct. 2	120	35	25	24
Bolt-guard	W. Newbold	270,972	Jan. 23	1425	411	23	294
Bolt-header	B. McKillen	290,085	Dec. 11	884	251	25	1050
Bolt-heading machine	T. Cooper	277,010	May 8	623	163	23	1739
Bolt-heading machine	M. G. Wilder	282,475	July 31	2711	746, 747	24	493
Bolt-holder and screw-driver. Combined	H. Wheeler	284,787	Sept. 11	783	218	24	1042
Bolt-lock	E. W. Sprague	283,725	Aug. 21	1514	427	24	788
Bolt-locking device	D. F. Blighton	287,795	Nov. 6	9	3	25	508
Bolt-pointing machine	W. B. Edwards	285,738	Sept. 25	1936	548, 549	24	1261
Bolt-threading die	M. D. Luehrs	289,674	Dec. 4	373	107	25	952
Bolt-threading machine	W. L. Bergen	284,168	Sept. 4	10	3	24	906

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bolt-threading machine	P. D. Nicols and T. W. Webb	272,079	Feb. 13	615	167	23	558
Bolts, &c. Air separator and feeder for	R. Wilson	271,389	Jan. 30	1938	561	23	390
Bolts. Expansion-cover for	D. Romaine	272,328	Feb. 13	918	256	23	611
Bolts. Machine for cutting threads on	C. F. Steinmets	283,680	Aug. 21	1458	410	24	777
Bolts. Press for making	G. H. Webb	284,094	Sept. 11	660	186	24	1022
Bolting-chest	L. B. Kohnle and W. B. Hamilton	283,899	Aug. 28	1726	487	24	836
Bolting-chest conveyer. Cut-off for	L. B. Kohnle and W. B. Hamilton	283,715	Aug. 21	1502	424	24	785
Bolting-machine. Centrifugal	F. Stetter	287,481	Oct. 30	2153	585	25	418
Bolting-reel	J. D. Hurst	271,853	Feb. 6	324	89	23	498
Bolting-reel	E. S. Phillips and S. A. Kealy	274,655	Mar. 27	1828	507	23	1172
Bolting-reel	J. M. Van Slyke	280,692	July 3	425	120	24	76
Bolting-reels. Apparatus for feeding flour to	E. L. Conklin	287,097	Oct. 23	1669	456	25	392
Bolting-regulator	J. E. Fiske	276,169	Apr. 24	1673	462	23	1537
Bone-black. Renewing	R. C. Clark	279,335	June 12	905	253	23	2286
Bone. Zincated	C. S. Lockwood	283,796	Aug. 28	1611	.....	24	817
Bonnet. Poke-	J. Stern	284,511	Sept. 4	432	123	24	977
Book	E. L. Burwell	285,794	Oct. 2	16	5	25	5
Book	F. Mills and C. H. Knight	289,434	Dec. 4	74	21	25	900
Book adjuster and supporter	C. F. Carlock and C. H. Davids	274,719	Mar. 27	1900	530	23	1165
Book, album, &c	H. Hoppin and A. L. Brown	285,897	Oct. 2	151	42, 43	25	30
Book-back	F. Bowman	281,657	July 17	1651	450	24	300
Book-backs. Device for cutting notches in	D. M. Smyth	276,296	Apr. 24	1825	508	23	1563
Book-backs. Machine for molding	D. J. and J. E. Kane	280,380	July 3	51	14	24	11
Book-backing machine. Roller	E. P. Donnell	276,787	May 1	336	89	23	1684
Book-binder's clamp	R. Doyle	272,864	Feb. 27	1635	457	23	749
Book-binding	W. I. Blackman	286,254	Oct. 9	583	160	25	117
Book-binding	T. J. Cagney	277,456	May 15	1170	314	23	1840
Book-binding	L. R. Goodwin	286,694	Oct. 16	1156	311	25	225
Book-binding	A. J. Megee	281,101	July 10	934	261	24	173
Book. Blank	A. E. Kipp	276,601	May 1	72	20	23	1640
Book. Blank or composition	F. Bowman	286,111	Oct. 2	409	112	25	75
Book. Check or account	J. A. Jackson	290,432	Dec. 18	1334	370	25	1137
Book-clamp	F. E. Halliday	289,252	Nov. 27	1817	502	25	850
Book-clamp	J. N. Wilson	277,096	May 8	740	194	23	1758
Book-clamp and portfolio. Combined	J. W. Eastwood	283,980	Aug. 28	1827	516	24	955
Book-clasp	A. C. Hafely	287,123	Oct. 23	1700	465	25	398
Book-cover	G. W. Hackstadt	289,647	Dec. 4	342	96	25	947
Book-cover	R. H. Welch	270,560	Jan. 9	902	260	23	185
Book-cover protector	E. T. Covell	273,669	Mar. 6	548	146	23	928
Book-cover. Removable	W. B. Blackhall	283,853	Aug. 28	1672	472	24	827
Book-cover. Removable	J. M. Bronson	290,846	Dec. 25	1878	{518 519	25	1239
Book-holder	T. A. Crabtree	283,576	Aug. 21	1340	374	24	754
Book-holder	R. M. Lambie	283,495	Aug. 21	1246	350	24	737
Book-holder	I. S. Mudgett	279,787	June 19	1444	405	23	2385
Book-holder	E. J. Wood	290,381	Dec. 18	1256	352	25	1124
Book-holder	C. L. Work	272,008	Feb. 6	518	139	23	530
Book-holding device	A. Pester	273,886	Mar. 13	836	227	23	985
Book. Hymn and music	R. D. Robertson	286,152	Oct. 2	455	124	25	85
Book-lock. Adjustable	M. C. Ogden	284,470	Sept. 4	376	104	24	967
Book-mark	M. A. Webb	288,285	Nov. 13	615	168	25	623
Book-mark. Automatic	E. H. Foote	284,404	Sept. 4	300	84	24	954
Book. Memorandum-	J. R. Carter	273,223	Feb. 27	2075	583	23	825
Book. Memorandum-	E. A. Hemphill	285,618	Sept. 25	1783	507	24	1235
Book-rest	A. R. Byrkit	289,384	Dec. 4	14	5	25	889
Book-rest	C. F. Haynes	289,652	Dec. 4	348	98	25	948
Book. Sales-	C. W. Earnshaw	283,872	Aug. 28	1697	478	24	831
Book. Scrap-	E. G. Thorp	278,202	May 22	2069	570	23	2002
Book show-stand. Sample-	C. Jackson	270,592	Jan. 16	947	274	23	203
Book-support	A. Bell	290,169	Dec. 11	978	276	25	1068
Book-support	J. Danner	289,394	Dec. 4	26	9	25	892
Book-support	B. Pickering	284,228	Sept. 4	93	25	24	990
Book-sawing machine	B. F. Humphrey	285,133	Sept. 18	1205	{338 339	24	1124
Books. Apparatus for pasting sheets in binding	G. Carlton and D. M. Smyth	276,224	Apr. 24	1736	{480 481	23	1548
Boom-stick	F. H. Durell and W. Goldie	276,789	May 1	337	89	23	1685
Boot	T. H. Buckingham	280,443	July 3	133	36	24	25
Boot	B. Getleson	289,525	Dec. 4	193	54	25	920
Boot and shoe	J. Jenkins	283,249	Aug. 14	932	259	24	673
Boot and shoe	O. E. Lewis	283,263	Aug. 14	951	265	24	677
Boot and shoe	J. H. Parker	284,977	Sept. 11	999	281	24	1083
Boot and shoe box	E. T. Cook	288,924	Nov. 20	1419	391	25	771
Boot and shoe box. Revolving	W. F. Irvine	270,437	Jan. 9	744	218	23	154
Boot and shoe box-toe	J. L. Joyce	288,944	Nov. 20	1446	398	25	776
Boot and shoe burnishing machine	C. J. Blakely	270,729	Jan. 16	1121	321	23	235
Boot and shoe burnishing machine	S. A. West	288,532	Nov. 13	939	256	25	678
Boot and shoe button-hole stay	E. Hambujer	288,794	Nov. 20	1269	347	25	743
Boot and shoe channeling machine	T. B. Dill	271,227	Jan. 30	1728	500	23	353
Boot and shoe cleaning and polishing apparatus	R. Austrian	290,386	Dec. 18	1260	353	25	1125
Boot and shoe edge trimmer	H. F. Rooney	280,958	July 10	769	213	24	141
Boot and shoe heel breasting machinery	J. W. Ball and H. Clark	282,255	July 31	2430	668	24	444
Boot and shoe heel burnisher	Z. Beaudry	284,167	Sept. 4	8	3	24	906
Boot and shoe heel-finishing machine	W. Manley	284,566	Sept. 4	491	{138 139	24	988
Boot and shoe heel stiffener	T. J. Brandt	283,859	Aug. 28	1680	474	24	898
Boot and shoe heeling machine	J. Sperry	275,535	Apr. 10	876	237	23	1384
Boot and shoe holding jack	G. S. Dalby	282,278	July 31	2456	676	24	449
Boot and shoe indicator	A. Muckenhaupt	274,639	Mar. 27	1808	502	23	1169
Boot and shoe indicator	G. T. Woodlief and G. R. Dunn	275,108	Apr. 3	298	82	23	1277
Boot and shoe insole	E. K. Cooley	271,798	Feb. 6	256	71	23	485
Boot and shoe insole	R. H. Trested	284,092	Aug. 28	1986	553	24	882
Boot and shoe jack	P. D. Crull	287,100	Oct. 23	1673	459	25	393
Boot and shoe last	E. S. Kingston	273,108	Feb. 27	1933	542	23	799

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Boot and shoe last	F. Packard and N. W. Arnold	270,975	Jan. 23	1427	412	23	294
Boot and shoe lasting-jack or holder	Z. T. French	274,091	Mar. 13	1083	298	23	1027
Boot and shoe lasting machine	J. R. Scott	281,306	July 17	1207	334	24	227
Boot and shoe lasting machine	J. R. Scott	284,906	Sept. 11	915	258	24	1067
Boot and shoe nail	H. R. Adams	275,010	Apr. 3	167	44	23	1254
Boot and shoe nailing machine	G. A. Perkins	289,443	Dec. 4	84	24	25	901
Boot and shoe nailing machine	S. Shepherd	272,486	Feb. 20	1137	319, 320	23	654
Boot and shoe pattern	M. J. Ferren	288,417	Nov. 13	798	216	25	655
Boot and shoe. Rubber	F. M. Shepard	288,127	Nov. 6	415	117	25	580
Boot and shoe. Rubber	C. H. Straight	270,348	Jan. 9	622	184	23	131
Boot and shoe show-box	E. M. Kelly	271,081	Jan. 23	1555	448	23	316
Boot and shoe sole	P. Green and E. P. Duncklee	289,646	Dec. 4	341	96	25	947
Boot and shoe sole cutting machine	M. C. Pease	276,979	May 1	578	152	23	1725
Boot and shoe sole finishing machine	C. R. Wells and B. K. Lewis	275,873	Apr. 17	1316	363	23	1467
Boot and shoe sole plate	F. Wellmann	290,155	Dec. 11	964	272	25	1065
Boot and shoe soles. Machine for trimming, channeling, and grooving	J. Smith	270,498	Jan. 9	812	237	23	169
Boot and shoe suspension-hook	E. E. Ries	283,418	Aug. 21	1146	324	24	720
Boot and shoe tips. Apparatus for skiving	J. A. Safford	289,145	Nov. 27	1693	470	25	827
Boot and shoe tree	J. H. Schneider	288,185	Nov. 6	483	134	25	591
Boot. Button	J. H. Bemis	278,081	May 22	1905	522	23	1974
Boot-cleaner	M. Lesser	281,893	July 24	1968	538	24	362
Boot. Felt	J. C. File	279,482	June 12	1092	301	23	2316
Boot. Felt	E. Waite	285,089	Sept. 18	1152	321	24	1115
Boot-insole	W. H. Wood	278,302	May 22	2212	606, 607	23	2096
Boot-jack	J. R. Walker	275,551	Apr. 10	897	243	23	1387
Boot-legs, &c. Machinery for finishing	L. H. Allen	284,265	Sept. 4	134	30	24	927
Boot or shoe	S. C. Belknap and T. H. Fye	278,308	May 29	2228	611	23	2037
Boot or shoe	G. C. Buch	281,664	July 24	1664	454	24	308
Boot or shoe	H. S. Cushman	279,859	June 19	1536	429	23	2400
Boot or shoe	G. W. Gregory	290,986	Dec. 25	2067	569	25	1269
Boot or shoe	O. E. Lewis	270,595	Jan. 16	951	275	23	203
Boot or shoe	O. E. Lewis	270,596	Jan. 16	951	275	23	203
Boot or shoe	T. P. Mitchell	290,460	Dec. 18	1374	379	25	1144
Boot or shoe	L. E. Moore	275,248	Apr. 3	465	130	23	1306
Boot or shoe	L. F. Norman	289,439	Dec. 4	80	23	25	900
Boot or shoe burnishing apparatus	C. J. Addy	275,452	Apr. 10	772	207	23	1366
Boot or shoe. Button	E. Lanthier	277,580	May 15	1320	354	23	1864
Boot or shoe clamp	O. T. X. Adams	278,385	May 29	2332	638	23	2056
Boot or shoe counters. Machine for forming	L. Coté	279,717	June 19	1369	382	23	2371
Boot or shoe fastener	B. T. M. Hunley	281,073	July 10	906	253	24	167
Boot or shoe. Felt	E. Waite	279,055	June 5	546	150	23	2216
Boot or shoe heel	S. M. Moschcowitz	288,842	Nov. 20	1323	363	25	753
Boot or shoe heel	S. Prior	276,279	Apr. 24	1804	503	23	1560
Boot or shoe heel	S. Wilde	285,194	Sept. 18	1277	359	24	1137
Boot or shoe heel protector	H. K. Forbis	279,559	June 19	1190	329	23	2340
Boot or shoe heel stiffener	E. Andrews	276,550	May 1	7	3	23	1628
Boot or shoe heel stiffener	T. Joyce	277,571	May 15	1309	351	23	1862
Boot or shoe heel stiffeners. Forming	C. Rochette	276,717	May 1	241	61	23	1666
Boot or shoe holding jack	A. B. Jones	279,169	June 12	705	192	23	2253
Boot or shoe insole	J. Hill	275,767	Apr. 10	1178	323	23	1435
Boot or shoe lasting jack or holder	Z. T. French	281,258	July 17	1154	319	24	217
Boot or shoe lasting machine	L. Coté	270,282	Jan. 9	541	159	23	116
Boot or shoe polishing machine	T. J. Pairpoint	274,649	Mar. 27	1821	506	23	1171
Boot or shoe sole	A. A. Brooks	280,791	July 10	573	160	24	108
Boot or shoe sole and upper protector	R. H. Walker	280,264	June 26	2024	569	23	2493
Boot or shoe sole stamp	W. C. Hoar	277,727	May 15	1485	402	23	1893
Boot or shoe soles. Apparatus for cementing the channels of	C. K. Bradford	278,086	May 22	1917	526	23	1976
Boot or shoe tree	J. H. Schneider	270,850	Jan. 16	1962	363	23	261
Boot or shoe uppers for lasting. Mechanism for preparing	O. G. Critchett	289,391	Dec. 4	21	7, 8	25	891
Boot. Rubber	S. M. Oberlander	288,846	Nov. 20	1328	364	25	754
Boot-strap. Metallic	J. L. Thomson	282,240	July 31	2415	664	24	442
Boot-top	H. J. Mahrenholz	275,678	Apr. 10	1059	287	23	1415
Boot-tree	J. P. Pratt	275,411	Apr. 10	718	192	23	1358
Boot-treeing machine	J. Warren	289,044	Nov. 27	1575	434, 435	25	805
Boots and shoes. Abrading and polishing machine for	G. W. Coffin	274,440	Mar. 20	1536	423	23	1114
Boots and shoes, and roller-dies therefor. Making rubber	J. A. Olmstead	272,308	Feb. 13	888	249	23	607
Boots and shoes. Heel-plate for rubber	F. Richardson	270,911	Jan. 23	1342	387	23	281
Boots and shoes. Lasting	M. Brock	284,174	Sept. 4	19	5	24	906
Boots and shoes. Manufacture of	E. H. Buckley	289,808	Dec. 11	543	151	25	988
Boots and shoes. Manufacture of	G. W. Day	284,188	Sept. 4	36	9	24	911
Boots and shoes. Manufacture of	M. R. Ethridge	269,842	Jan. 2	29	9	23	8
Boots and shoes. Manufacture of	S. F. Libby	282,911	Aug. 7	519	145	24	592
Boots and shoes. Manufacture of	E. Maynz	281,709	July 24	1725	468	24	318
Boots and shoes. Spring for the soles and heels of	G. E. Swan	272,172	Feb. 13	727	201	23	578
Boots and shoes. Spring-heel for	G. E. Swan	288,274	Nov. 13	606	165	25	621
Boots and shoes. Tap-sole for rubber	G. Watkinson	282,423	July 31	2647	726	24	482
Boots. Machine for blocking the quarters of	S. Hudson	290,234	Dec. 18	1067	299	25	1091
Boots. Metallic shield for brakemen's	E. Nelson and A. Davis	280,223	June 26	1975	555	23	2484
Boots or shoes. Machine for cutting pegs from	N. S. Wakefield	281,587	July 17	1555	426	24	285
Boots or shoes. Metal last and jack for	S. Mawhinney	276,059	Apr. 17	1532	421	23	1505
Boots or shoes. Rubber sole and heel for	F. Ephraim	282,710	Aug. 7	295	83	24	551
Boots or shoes. Wooden half-sole for	A. W. C. Cain	273,460	Mar. 6	284	77	23	882
Boots, shoes, or stockings. Machine for manufacturing felt	J. Brandy	277,450	May 15	1161	312	23	1839
Boring and tenoning machine	W. H. Ryan	276,476	Apr. 24	2061	572	23	1603
Boring-bar	L. R. Faught	289,522	Dec. 4	188	53	25	919
Boring-bit	W. W. Brigg	274,711	Mar. 27	1891	527	23	1183

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Boring-bit	H. E. Fuller	283,705	Aug. 21	1486	418	24	783
Boring-bit. Spoon	B. Forstner	280,026	June 26	1751	492	23	2444
Boring-brace	A. H. Adams	282,251	July 31	2426	667	24	444
Boring, drilling, and facing machine	W. E. Wild	275,103	Apr. 3	292	80, 81	23	1276
Boring-engine. Portable steam	A. Noteman	273,136	Feb. 27	1968	553	23	806
Boring-machine	H. T. Brown	288,403	Nov. 13	784	212	25	652
Boring-machine	F. H. Drummond and T. Jenkins, Jr.	289,817	Dec. 11	554	155	25	990
Boring-machine	F. F. and H. F. Hartwich	281,871	July 24	1936	529	24	356
Boring-machine	T. Hofstatter, Jr	284,850	Sept. 11	850	239	24	1055
Boring-machine	R. M. McDaniel	290,339	Dec. 18	1202	337	25	1114
Boring machine. Wood	J. M. Nash	274,020	Mar. 13	902	272	23	1012
Boring machine. Wood	M. Sweet	289,170	Nov. 27	1720	479	25	832
Boring-mill attachment	G. T. Reiss	274,517	Mar. 27	1667	463	23	1143
Boring rocks under water. Apparatus for	J. T. Jones and J. H. Wild	285,628	Sept. 25	1793	510, 511	24	1238
Boring-tool	J. Wade	280,420	July 3	99	26	24	20
Boring tool. Metal	J. M. Hanscom	281,687	July 24	1695	461	24	313
Borings. Method of and apparatus for determining the inclination of	E. F. Macgeorge	270,597	Jan. 16	952	275	23	203
Bosom-board	A. P. Ryan	287,329	Oct. 23	1961	535	25	375
Bosom-board neckband-shaper	C. A. Gilbert	277,705	May 15	1462	394	23	1869
Bosom-stretcher and ironing-board	A. C. Gibson	276,802	May 1	349	93	23	1687
Bottle	S. M. Bixby	273,444	Mar. 6	262	71	23	878
Bottle	G. S. Fairchild	282,974	Aug. 14	589	166	24	612
Bottle and flask stand	D. R. Bradley	288,617	Nov. 20	1041	287	25	704
Bottle and jar stopper	N. Thompson	279,891	June 19	1571	440	23	2407
Bottle and jar stopper	A. V. Whiteman	284,523	Sept. 4	446	126	24	980
Bottle and nipple. Nursing	J. A. Morris	280,856	July 3	380	106	24	67
Bottle-box	J. E. Luscomb	271,087	Jan. 23	1560	449	23	317
Bottle. Bung	S. P. Connor	287,908	Nov. 6	147	43	25	534
Bottle cap. Mustard	C. Gulden	271,237	Jan. 30	1740	503	23	355
Bottle-capsuling machine	F. W. A. Boldt	271,304	Jan. 30	1824	529	23	369
Bottle-carrying box	J. C. Cary	278,504	May 29	2478	676	23	2082
Bottle-case	J. Davis	281,845	July 24	1908	521	24	351
Bottle-case	H. Walton	275,552	Apr. 10	898	243	23	13-7
Bottle-cleaning machine	A. C. Weaver	286,880	Oct. 16	1384	380	25	265
Bottle-covering	S. Oakman	287,049	Oct. 23	1608	442	25	310
Bottle-emptying device	A. E. Rich	289,447	Dec. 4	89	25	25	902
Bottle. Feeding	J. Thomas	275,288	Apr. 3	515	142	23	1314
Bottle-filling apparatus	J. D. Roberts	279,668	June 19	1315	365	23	2362
Bottle-filling machine	E. L. Lloyd	279,776	June 19	1434	401	23	2383
Bottle-filling machine	W. Pearson	280,234	June 26	1988	559	23	2486
Bottle-filling machine	H. M. Tubbs and E. T. Swartz	288,744	Nov. 20	1209	331	25	732
Bottle for containing aerated liquids	H. Codd and D. Rylands	270,392	Jan. 9	685	203	23	143
Bottle for milk, &c	A. M. Hurel	288,238	Nov. 13	557	155	25	613
Bottle. Ink	A. W. Brinkerhoff	275,983	Apr. 17	1441	397	23	1490
Bottle. Label	G. B. Shepard	283,825	Aug. 28	1642	462	24	822
Bottle-lock	G. E. Brundage	285,385	Sept. 25	1504	423	24	1183
Bottle. Nursing	M. Glattsteine	279,935	June 26	1637	459	23	2424
Bottle or jar stopper or cover	A. V. Whiteman	275,101	Apr. 3	290	80	23	1276
Bottle-packing box	F. A. Baier	278,761	June 5	105	30	23	2141
Bottle-packing box	J. C. Schoenthaler	276,289	Apr. 24	1816	506	23	1562
Bottle stand. Lock	C. W. Hutchins	274,608	Mar. 27	1776	493	23	1162
Bottle-stopper	H. B. Anderson	279,310	June 12	863	240	23	2280
Bottle-stopper	M. L. Ballard	283,692	Aug. 21	1471	414	24	780
Bottle-stopper	C. H. Bennett	280,784	July 10	565	158	24	106
Bottle-stopper	J. Byrnes	282,953	Aug. 14	568	161	24	608
Bottle-stopper	J. J. Christie	283,569	Aug 21	1332	371	24	752
Bottle-stopper	G. Ducro	270,765	Jan. 16	1165	333	23	243
Bottle-stopper	C. O. Hammer	290,577	Dec. 18	1529	421	25	1171
Bottle-stopper	L. S. Hoyt	285,132	Sept. 18	1203	338	24	1124
Bottle-stopper	C. G. Hutchinson	285,488	Sept. 25	1624	456	24	1205
Bottle-stopper	F. F. Jewett	276,822	May 1	372	99	23	1691
Bottle-stopper	A. T. King	284,561	Sept. 4	486	137	24	987
Bottle-stopper	J. M. Lewin	290,897	Dec. 25	1941	535	25	1250
Bottle-stopper	E. L. Lloyd	279,777	June 19	1435	402	23	2383
Bottle-stopper	E. L. Lloyd	280,196	June 26	1937	544	23	2478
Bottle-stopper	F. H. Lowerre	287,141	Oct. 23	1723	472	25	332
Bottle-stopper	O. E. Michaelis	270,601	Jan. 16	958	278	23	204
Bottle-stopper	I. Neef	277,847	May 15	1627	443	23	1919
Bottle-stopper	S. S. Newton	279,418	June 12	1017	282	23	2304
Bottle-stopper	S. S. Newton	279,419	June 12	1017	282	23	2304
Bottle-stopper	S. S. Newton	280,503	July 3	207	54	24	37
Bottle-stopper	S. S. Newton	280,944	July 10	755	210	24	138
Bottle-stopper	A. F. Parkhurst	289,928	Dec. 11	693	194	25	1015
Bottle-stopper	I. N. Peirce	271,734	Feb. 6	177	48	23	471
Bottle-stopper	G. S. Prior	290,192	Dec. 11	1005	283	25	1072
Bottle-stopper	W. L. Roorbach	272,775	Feb. 20	1501	422	23	718
Bottle-stopper	H. E. Spaulding	283,432	Aug. 21	1170	329	24	723
Bottle-stopper	C. A. Stahlin	279,455	June 12	1058	293	23	2311
Bottle-stopper	C. A. Stahlin	288,885	Nov. 20	1374	379	25	762
Bottle-stopper	F. B. Thatcher and J. W. Johnson	283,436	Aug. 21	1174	330	24	724
Bottle-stopper	J. T. Walker	288,521	Nov. 13	926	253	25	676
Bottle-stopper and draft-nozzle	P. Henrichs	276,816	May 1	365	97	23	1690
Bottle stopper and fastener	F. Burns	289,215	Nov. 27	1778	493	25	842
Bottle stopper and fastener	E. Haas	273,356	Mar. 6	154	44	23	860
Bottle stopper and fastening	W. H. Bate	273,935	Mar. 13	896	245	23	995
Bottle stopper, cap, and label combined	W. B. Dean	289,814	Dec. 11	551	154	25	989
Bottle-stopper fastener	B. D. Marks	281,199	July 10	1066	294	24	195
Bottle-stopper fastener	J. T. Walker	287,350	Oct. 23	1987	542	25	389
Bottle-stopper fastening	H. Resley	273,159	Feb. 27	1996	561	23	811
Bottle stopper. Mustard	J. Gulden	276,683	May 1	193	49	23	1657
Bottle-stopper. Pneumatic	W. Von Schlieffen	288,603	Nov. 13	1025	281, 282	25	695

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bottle-stoppering	W. W. Macvay and R. Sykes	277,758	May 15	1527	414	23	1901
Bottle-stopping device	G. S. Norris	272,081	Feb. 13	619	167	23	559
Bottle-stopping device	G. S. Norris	281,290	July 17	1186	328	24	223
Bottle-stopping machine	J. K. Nye	273,881	Mar. 13	832	225	23	984
Bottle-washing machine	W. Cowles	286,394	Oct. 9	774	209 210	25	151
Bottle-washing machine	F. B. Seiberlich. (Reissue)	10,327	May 15	1656	451	23	1924
Bottle-washing machine	F. B. Seiberlich	272,484	Feb. 20	1134	319	23	653
Bottle-wrapper	C. G. Biedinger	275,013	Apr. 3	170	46	23	1255
Bottle-wrapper	H. Redlich	272,323	Feb. 13	909	255	23	610
Bottle wrapper and cushion	E. O. Berninghaus	285,872	Oct. 2	114	34	25	22
Bottle-wrapper. Wooden	J. Shellenberger	272,910	Feb. 27	1695	474	23	758
Bottles, lamps, &c. Apparatus for filling	C. C. Redmond	281,396	July 17	1318	364	24	245
Bottles. Head for siphon	J. Brown	289,063	Nov. 27	1596	442	25	809
Bottles, &c. Packing-box for	J. J. Bogard	276,218	Apr. 24	1730	479	23	1547
Bottles with aerated beverages. Apparatus for filling	A. Albertson	282,481	Aug. 7	3	2	24	501
Bottling apparatus. Liquor	J. Hunt and B. C. Wilson	270,434	Jan. 9	741	218	23	154
Bottling device	A. Rigny	289,714	Dec. 4	435	122	25	962
Bottling liquids. Device for	W. T. Ferre	278,661	May 29	2665	729	23	2114
Bottling-machine	J. Bryan	285,458	Sept. 25	1592	447	24	1199
Bottling-machine	H. W. Putnam	272,153	Feb. 13	707	194	23	574
Bottling powders. Machine for	C. G. Wiltse	283,313	Aug. 14	1007	282	24	688
Bottom-support	H. W. Shepard	272,590	Feb. 20	1269	354	23	676
Bouquet-holder	J. Darrach	278,514	May 29	2489	680	23	2084
Bow and scarf fastener	J. Wilcoxen	284,699	Sept. 11	667	187	24	1023
Bow. Cross	G. Eger	272,418	Feb. 20	1052	295	23	639
Bow. Cross	H. G. Lewis	289,283	Nov. 27	1857	516	25	858
Bowl. Sugar	J. T. Bond	275,350	Apr. 10	634	169	23	1343
Bowling-balls. Handle attachment to	C. Hausaman	287,927	Nov. 6	172	49	25	538
Box:							
See Advertising match-box.	Leather box.						
Artist's box.	Letter-box.						
Axle-box.	Locomotive smoke-box.						
Battery-box.	Lunch-box.						
Boiler fire-box.	Match-box.						
Boot and shoe box.	Miter-box.						
Boot and shoe show-box.	Music-box.						
Bottle-box.	Oil-press box.						
Bottle-carrying box.	Packing-box.						
Bottle-packing box.	Packing and storing box.						
Bush-box.	Paper-box.						
Butter-box.	Pepper and salt box.						
Camera-box.	Photographic camera-box.						
Cartridge-box.	Pitman-box.						
Check-box.	Post-office box.						
Cigar-box.	Ribbon-box.						
Cigarette and match box.	Salt-box.						
Core-box.	Sanding-box.						
Electric-signal box.	Service-box.						
Fagot-box.	Sheet-metal box.						
Fare-box.	Show-box.						
File-box.	Stationery-box.						
Fire-alarm box.	Steam-engine link-box.						
Folding box.	Stuffing-box.						
Game-box.	Ticket-distributing box.						
Hat show-box.	Tobacco-box.						
Journal-box.	Toilet-set box.						
Knife-box.	Toy money-box.						
	Wagon-box.						
	Watch-movement box.						
	Weigh-box.						
Box	W. H. Atkinson	277,401	May 8	1095	294	23	1821
Box	H. A. Baker	282,483	Aug. 7	5	2	24	502
Box	C. W. Hobbs	273,278	Mar. 6	40	12	23	841
Box	H. A. and A. A. Smith	290,130	Dec. 11	937	265	25	1060
Box and package filler	C. E. Bolton, F. H. Strieby, and M. Rankin.	277,540	May 15	1270	340	23	1856
Box-board	C. A. Brown, E. B. Denison, and C. D. Brown.	289,383	Dec. 4	14	.....	25	889
Box-cover	W. H. Rohe	277,061	May 8	693	180	23	1751
Box-cover attachment	B. M. Sahlein	290,481	Dec. 18	1400	386	25	1149
Box-covering machine	C. H. Manneck and W. Witte	278,442	May 29	2403	655 656	23	2068
Box-fastener	C. H. Ball	290,729	Dec. 25	1732	478	25	1214
Box-fastener	T. H. Brown, Jr	287,093	Oct. 23	1665	457	25	321
Box-fastener	T. F. Conklin	284,615	Sept. 11	559	158	24	1005
Box-fastener	T. A. Dennis	290,142	June 26	1881	529	23	2468
Box-fastener	W. B. Judson	274,497	Mar. 27	1637	455	23	1138
Box-fastener	F. Kley	290,749	July 3	501	142	24	89
Box-fastener	J. G. Leffingwell	290,992	Dec. 25	2074	571	25	1270
Box-fastener	J. Loew	288,351	Nov. 13	705	193	25	638
Box-fastener	S. and M. E. Martinelli	273,863	Mar. 13	811	219	23	981
Box-fastener	J. R. Morrison	288,097	Nov. 6	383	108	25	574
Box-fastener	C. L. Page	284,660	Sept. 11	610	172	24	1013
Box-fastener	W. W. Randall	275,853	Apr. 17	1290	354	23	1462
Box for matches, &c	A. L. Hollander	270,667	Jan. 16	1042	298	23	220
Box in imitation of a cigar	O. Bushnell	282,159	July 31	2310	634	24	424
Box-loop	J. Watters	269,975	Jan. 2	180	52	23	37
Box-loop	J. Watters	269,976	Jan. 2	180	53	23	38
Box-loop	J. Watters	269,977	Jan. 2	181	53	23	38
Box-loop	J. Watters	271,170	Jan. 23	1659	477	23	333
Box-matcher machine	H. B. Gaus, Jr	288,567	Nov. 13	976	269	25	886
Box material. Machine for trimming	F. Myers	280,219	June 26	1966	553	23	2483
Box-nailing machine	S. Avery	270,364	Jan. 9	641	189	23	135

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Box-nailing machine	F. W. Blood	272,199	Feb. 13	761	209, 210, 211	23	583
Box-nailing machine	W. H. Brock	285,729	Sept. 25	1921	545	24	1260
Box-nailing machine	T. L. Smith and W. S. Doig	276,726	May 1	255	65	23	1668
Box-nailing machine	J. H. Swift	289,941	Dec. 11	704	198, 199	25	1017
Box-opener	T. L. Stanwood	278,192	May 22	2050	563	23	1998
Box or case	J. Sheehey	274,038	Mar. 13	1010	277	23	1015
Box or package	S. Van Campen	290,819	Dec. 25	1848	511	25	1234
Box-packing press	G. W. Soule	279,198	June 12	734	201	23	2259
Box-pasting machine	G. W. Glazier	288,172	Nov. 6	466	130	25	588
Box-patterns. Machine for cutting	J. M. Titus	272,354	Feb. 13	949	263, 264	23	616
Box. Self-adjusting	M. Pacholder	282,359	July 31	2568	704	24	488
Box-trimming machine	R. C. Anderson	277,100	May 8	743	196	23	1759
Box. Wire-bound	J. B. Groot	281,264	July 17	1160	320	24	218
Boxes. Die for stamping and embossing	W. H. Allen	279,118	June 12	646	176, 177	23	2244
Brace: *See* Axle-spindle brace. Bit-brace. Boring-brace. Buggy-top brace. Dental jaw-brace. Door-brace. Railway-rail brace. Ratchet-brace. Vehicle-spring brace.							
Bracelet	O. H. Atwood and H. P. Lester	279,518	June 19	1141	315	23	2331
Bracelet	H. Cockshaw	272,829	Feb. 20	1566	440	23	730
Bracelet	S. Cottle	283,574	Aug. 21	1337	373	24	754
Bracelet	J. Hackenberg	282,310	July 31	2498	686	24	456
Bracelet	J. C. Harrington	272,244	Feb. 13	819	228	23	594
Bracelet	J. C. Harrington	289,531	Dec. 4	198	56	25	921
Bracelet	W. Holden	281,628	July 17	1612	441	24	294
Bracelet	A. Keller	281,371	July 17	1290	357	24	241
Bracelet	T. King	285,041	Sept. 18	1096	306	24	1106
Bracelet	F. Kursh and F. S. Feraille	273,110	Feb. 27	1935	542	23	800
Bracelet	P. Lettré	290,590	Dec. 18	1541	424	25	1173
Bracelet	J. Moore	273,241	Feb. 27	2097	588	23	828
Bracelet	G. A. Spicer	276,091	Apr. 17	1571	433	23	1511
Bracelet and chain slide	J. Etzensperger	283,333	Aug. 14	1037	291	24	693
Bracelet and necklet fastening	J. M. Banks	277,537	May 15	1967	340	23	1856
Bracelet. Band	J. Barclay	289,371	Dec. 4	2	1	25	887
Bracelet-chain	H. M. Herring	271,845	Feb. 6	314	86	23	496
Bracelet. Chain	A. S. Southwick	280,253	June 26	2012	565	23	2491
Bracket: *See* Adjustable bracket. Awning-bracket. Chair, knee, and truss bracket. Colter-bracket. Curtain-bracket. Curtain-fixture bra ket. Curtain-pole bracket. Dental bracket. Dental-engine suspension-bracket. Eaves-trough bracket. Lamp-bracket. Picture-bracket. Portable bracket. Pump-handle bracket. Reflector-bracket. Scaffold-bracket. Shingling-bracket. Siding-bracket. Stove-bracket. Wall-bracket.							
Bracket	L. O. Olson	287,853	Nov. 6	73	22	25	520
Bracket-seat	O. E. Briggs	272,592	Feb. 20	1181	330	23	661
Braiding-machine	W. Hedtmann	288,236	Nov. 13	550	152, 153, 154	25	613
Braiding-machine	J. McCahey	275,061	Apr. 3	235	64	23	1366
Braiding-machine	E. and E. Rafer	278,669	May 29	2675	732	23	2116
Braiding-machine	F. L. Veerkamp, C. F. Leopold, and W. Darker.	277,593	May 15	1246	335	23	1853
Braiding machine. Cord	C. E. Barnes and A. C. Winn	290,624	Dec. 18	1585	436	25	1180
Braiding-machine stop-motion	G. K. Winchester	280,109	June 26	1845	520	23	2461
Brake: *See* Air-brake. Car-brake. Car hand-brake. Door-brake. Electro-magnetic brake. Elevator-brake. Elevator and dumb-waiter brake. Elevator safety-brake. Hoisting-machine brake. Locomotive-brake. Locomotive and tender brake. Locomotive and train brake. Locomotive or car brake. Locomotive steam-brake. Mining-machine brake. Pressure-brake. Railway-brake. Sled-brake. Traction-engine brake. Vehicle-brake. Velocipede-brake. Wagon-brake.							
Brake	E. E. Glover	282,432	July 31	2688	737	24	489
Brake-band for hoisting machinery, &c. External friction	D. H. Merritt	282,349	July 31	2555	700	24	465
Brake-beam	A. H. McAlpine	289,431	Dec. 4	70	20	25	899
Brake-beam. Metallic	W. Woodcock	276,122	Apr. 17	1615	444	23	1519
Brake-block	M. J. Siqueira	277,360	May 8	1053	283	23	1814
Brake for winding or hoisting engines	W. C. Waters	281,810	July 24	1863	509	24	343
Brake-lever	J. L. Barker	270,174	Jan. 2	407	118	23	83
Brake-lever	W. Moore	271,099	Jan. 23	1572	452	23	318
Brake-lock	C. C. Clay	281,222	July 10	1096	303	24	201
Brake-rod coupling	E. Ebi	276,370	Apr. 24	1931	536	23	1561
Brake-setting apparatus. Electric	J. B. Low	271,721	Feb. 6	160	44	23	468
Brake-shoe	W. M. Abbott	277,098	May 8	742	195	23	1758

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Brake-shoe	H. A. Banning	271,207	Jan. 30	1707	495	23	349
Brake-shoe	C. E. Gore and J. Eisele	270,583	Jan. 16	931	269	23	199
Brake-shoe	R. T. King	275,830	Apr. 17	1960	346	23	1457
Brake-shoe	J. O'Connor	284,052	Aug. 28	1935	541	24	873
Brake-shoe	D. Prew	277,159	May 8	823	216	23	1773
Brake-shoe	G. J. Shimer	272,911	Feb. 27	1606	475	23	758
Brake-shoe	G. B. Simonds	289,313	Nov. 27	1888	526	29	864
Brake-shoe	J. Timms	275,547	Apr. 10	892	241	23	1386
Brake-shoe	A. B. Todd	283,438	Aug. 21	1177	331	24	724
Brake-shoe	W. White	277,647	May 15	1396	376	23	1878
Brakes. Automatic stop for draw-bar	W. B. Guernsey	288,568	Nov. 13	976	269	25	686
Bran-compressor	J. L. Kail	287,133	Oct. 23	1711	468, 469	25	331
Bran, &c. Device for packing	J. Elder	290,013	Dec. 11	800	225	25	1034
Bran-duster	L. S. Hogeboom and F. B. Smith	279,387	June 12	981	272, 273	23	2298
Bran from wheat. Process of and mechanism for removing	A. Schwarzwaelder	288,669	Nov. 20	1108	304, 305	25	715
Bran, &c. Method of and device for preparing and packing	W. A. Morrison	281,288	July 17	1182	326, 327	24	223
Bran or flour packer	H. G. Hall	279,746	June 19	1401	391	23	2377
Bran or flour packer	A. L. Stephens	280,771	July 3	541	151	24	95
Bran-packer	J. E. Belt	279,854	June 19	1528	427	23	2399
Bran, &c. Packing	H. Bower	282,045	July 31	2151	590	24	398
Bran. Process of and apparatus for packing	H. Bower	282,046	July 31	2152	590, 591	24	398
Bran. Process of and apparatus for packing	R. M. Hunter and J. T. Stewart	280,478	July 3	180	48	24	33
Branding bottle-corks. Machine for	P. Chenet	283,567	Aug. 21	1328	371	24	752
Branding device	J. S. Smithson	278,621	May 29	2816	714	23	2106
Branding-machine	V. G. White	289,480	Dec. 4	129	37	25	909
Branding-tool	J. A. Allen	286,366	Oct. 9	742	199	25	145
Bread and meat slicer	T. K. Knapp	288,451	Nov. 13	842	227, 228	25	662
Bread-cutter	J. Banks	284,798	Sept. 11	791	221	24	1044
Bread-cutter	N. Chapman	280,796	July 10	577	161	24	108
Bread or cheese cutter	A. Jelinek	280,489	July 3	183	48	24	34
Breaking-down shovel	F. C. Starke and P. J. Crowley	271,940	Feb. 6	430	117	23	516
Breakwater	E. C. G. Thomas	283,683	Aug. 21	1461	411	24	778
Breast-strap fender	J. C. Look	287,696	Oct. 30	2447	659	25	475
Breast-strap hook	G. M. Hubbard	271,851	Feb. 6	323	89	23	498
Breast-strap protector	P. C. Fritts	284,546	Sept. 4	468	133	24	984
Breast-strap slide and hook	C. R. Furey	284,547	Sept. 4	469	133	24	984
Breastpin	H. P. Pruim	288,490	Nov. 13	892	242	25	670
Breastpin. Ornamental	J. Hoagland	279,564	June 19	1195	331	23	2341
Breech-loader	W. Gardner	281,862	July 24	1926	526	24	354
Breech-loader	T. W. Webley and T. Brain	275,737	Apr. 10	1127	308, 309	23	1427
Breeching-loop and holdback-ring	T. H. Joyce	285,414	Sept. 25	1539	434	24	1190
Bretzel-cutter	T. H. Butler, G. W. Earhart, and W. M. Crawford.	274,264	Mar. 20	1312	362	23	1076
Bretzel-machine	T. H. and M. S. Keller and C. W. Myers.	277,573	May 15	1311	351, 352	23	1863
Bretzel-cutter	J. U. Segesser	283,522	Aug. 21	1273	356	24	741
Brewers' shavings	A. Lachenmeyer	273,860	Mar. 13	809	219	23	980
Brick	W. Q. Adams	270,274	Jan. 9	526	155	23	113
Brick	R. F. Robinson	285,308	Sept. 18	1404	397	24	1161
Brick and fire-proof lining for furnaces	G. Duryee	271,437	Jan. 30	2001	.....	23	402
Brick and tile kiln	J. L. Friend	275,477	Apr. 10	807	218, 219	23	1372
Brick and tile kiln	J. W. Souders and J. Prutzman	289,938	Dec. 11	702	197	25	1016
Brick and tile machine	J. C. Anderson	276,549	May 1	5	2	23	1627
Brick and tile machine	G. Van Winkle	276,544	Apr. 24	2145	597	23	1617
Brick and tile machine	W. W. Wallace	288,894	Nov. 20	1386	382	25	765
Brick and tile machines. Endless chain carrier for	F. A. Smith	289,039	Nov. 27	1569	433	25	804
Brick and tile molding machinery	T. Le Poidevin	271,875	Feb. 6	348	97	23	502
Brick. Apparatus for drying green	H. Dickson	290,323	Dec. 18	1163	331	25	1111
Brick. Apparatus for tempering and preparing clay for making	W. W. Winn	287,074	Oct. 23	1641	450, 451	25	316
Brick. Building	J. Lee	274,449	Mar. 20	1556	426	23	1118
Brick. Burning	C. F. T. Kandeler	283,402	Aug. 21	1130	319	24	717
Brick. Composition for fire-	G. A. Hoffmann, Jr.	276,041	Apr. 17	1512	.....	23	1501
Brick-drying apparatus	N. S. Willet	280,271	June 26	2034	572	23	2494
Brick finishing or dressing apparatus	S. Coutant	275,888	Apr. 17	1334	367	23	1470
Brick. Fire-	W. Batty	270,175	Jan. 2	408	.....	23	83
Brick. Fire-	W. S. McKenna	274,357	Mar. 20	1431	392	23	1096
Brick-fork	E. Dawson	276,366	Apr. 24	1924	533	23	1580
Brick. Hardening fire-	J. Henderson	279,161	June 12	698	.....	23	2252
Brick-kiln	T. B. Anderson	290,512	Dec. 18	1444	399	25	1156
Brick-kiln	J. H. Beidler	278,080	May 22	1904	521	23	1974
Brick-kiln	G. F. Cotton	287,633	Oct. 30	2363	637	25	458
Brick-kiln	J. E. Gamble	273,354	Mar. 6	152	42, 43	23	860
Brick-kiln	W. N. Graves	277,421	May 8	1121	300, 301	23	1825
Brick-kiln	F. L. Hall	287,432	Oct. 30	2090	567, 568	25	405
Brick-kiln	H. Konhorst	288,347	Nov. 13	699	192	25	637
Brick-kiln	L. Niehaus	290,261	Dec. 18	1104	309	25	1097
Brick-kiln	C. D. Page	286,728	Oct. 16	1197	322, 323	25	232
Brick-kiln	C. D. Page	286,729	Oct. 16	1199	323	25	233
Brick-kiln	J. W. Penfield	289,024	Nov. 27	1550	427, 428	25	801
Brick-kiln	T. S. Smith	290,939	Dec. 25	1996	559	25	1259
Brick-machine	J. C. Anderson	276,991	May 8	599	157	23	1735

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Brick-machine	J. C. Anderson	276,992	May 8	602	158	23	1735
Brick-machine	J. C. Anderson	283,366	Aug. 21	1091	307	24	709
Brick-machine	W. Andrus	286,892	Oct. 16	1399	384, 385	25	267
Brick-machine	H. C. Barker	274,700	Mar. 27	1883	524, 525	23	1182
Brick-machine	M. Carroll	289,889	Dec. 11	648	181	25	1007
Brick-machine	J. Creager	284,949	Sept. 11	968	272	24	1077
Brick-machine	L. Cullen	276,228	Apr. 24	1740	482, 483	23	1549
Brick-machine	W. A. Graham	289,769	Dec. 4	490	136	25	971
Brick-machine	J. Hodkinson and F. P. Miller	288,337	Nov. 13	685	189	25	635
Brick-machine	L. B. Kennedy	280,316	June 26	2091	588	23	2505
Brick-machine	J. H. Konefes	271,873	Feb. 6	346	96	23	501
Brick-machine	J. A. Lafler	289,422	Dec. 4	60	17	25	897
Brick-machine	G. Martin	288,649	Nov. 20	1085	298	25	711
Brick-machine	J. B. Mowry	288,253	Nov. 13	573	159	25	616
Brick-machine	W. and A. B. Woodward	283,184	Aug. 14	847	237, 238	24	657
Brick-machine. Dry-pressing	H. B. Morrison and G. Willett	270,861	May 1	420	112	23	1700
Brick. Machine for pulverizing clay for making	W. Andrus	276,147	Apr. 24	1647	455	23	1533
Brick-machines. Sand-scraper for	C. Chambers, Jr	285,013	Sept. 18	1039	296	24	1100
Brick-machines. Sand-scraper for	S. W. Lasor	285,043	Sept. 18	1097	306	24	1106
Brick-making machine	M. Fitzpatrick	272,224	Feb. 13	794	221	23	589
Brick-making machines. Mold and die for	A. Ittner	288,240	Nov. 13	559	156	25	614
Brick-making machinery	C. Chambers, Jr	275,467	Apr. 10	788	211, 212, 213, 214	23	1369
Brick. Manufacture of	F. W. Meeker	287,699	Oct. 30	2450	660	25	476
Brick. Metallic pallet for	J. M. Blair	279,528	June 19	1156	320	23	2334
Brick-mold	A. F. Crowe	283,758	Aug. 28	1566	441	24	809
Brick-mold and brick	L. Prince	278,268	May 22	2156	592	23	2016
Brick-mold bumper and palette-holder combined	G. L. Doty	284,727	Sept. 11	703	197	24	1029
Brick-molds. Machine for sanding	W. Brower	290,736	Dec. 25	1744	482	25	1215
Brick-molds. Machine for sanding	J. A. Buck	284,115	Aug. 28	2018	561, 562	24	887
Brick-molds. Machine for sanding	J. A. Buck	290,847	Dec. 25	1879	519	25	1239
Brick-molds. Machine for sanding	D. Ralston	271,984	Feb. 6	491	132	23	525
Brick-molding machine	C. F. Schlickeysen	275,715	Apr. 10	1100	301	23	1422
Brick-press	J. P. Miller	283,802	Aug. 28	1615	454	24	817
Brick-pressing machine	G. Carnell	283,565	Aug. 21	1396	370	24	751
Brick. Preventing saltpeter-exudations upon facing-	J. C. Anderson	271,591	Feb. 6	8	2	23	442
Brick, tile, &c. Kiln and furnace for burning	J. C. Culbertson and W. A. Endaly	281,029	July 10	852	236, 237	24	158
Brick, tile, &c. Ornamentation of	J. C. Anderson	271,587	Feb. 6	4	.....	23	441
Brick, tile, &c. Ornamentation of	J. C. Anderson	271,590	Feb. 6	7	.....	23	442
Bricks, &c. Manufacture of	B. Loomis	280,837	July 10	622	175	24	116
Bridge	W. J. Holman	290,054	Dec. 11	846	240, 241	25	1043
Bridge	G. Lindenthal	277,039	May 8	664	173	23	1746
Bridge alarm. Draw-	E. F. Meyer	288,470	Nov. 13	868	235	25	666
Bridge-girder. Connected	C. E. Emery	279,927	June 26	1622	455, 456	23	2422
Bridge. Suspension-	T. M. Griffith	285,257	Sept. 18	1346	379, 380	24	1150
Bridge. Truss-	D. B. Matlock	272,568	Feb. 20	1248	348	23	673
Bridge. Truss-	I. A. Sprague	287,974	Nov. 6	232	66	25	548
Bridges and elevated-railway structures. Safety device for	J. W. Young	282,024	July 24	2120	581	24	387
Bridle	L. C. Chase	278,882	June 5	983	82	23	2172
Bridle	J. G. Heinisch	273,077	Feb. 27	1883	529	23	791
Bridle	J. J. McCue	275,927	Apr. 17	1376	379	23	1478
Bridle	L. Peavey and F. Kiekenapp	274,513	Mar. 27	1660	402	23	1142
Bridle	E. Ward	289,193	Nov. 27	1752	487	25	837
Bridle and halter. Combined	M. F. White and D. G. Sheridan	290,826	Dec. 25	1856	513	25	1235
Bridle attachment	A. and E. Grossmann	273,511	Mar. 6	340	92	23	892
Bridle attachment	J. T. Massey	278,988	June 5	455	125	23	2201
Bridle-bit	T. Brabson	274,709	Mar. 27	1890	527	23	1183
Bridle-bit	C. A. Chandler	290,850	Dec. 25	1893	529	25	1242
Bridle-bit	L. S. Longcor	279,171	June 12	707	192	23	2254
Bridle-bit	M. J. O'Leary	274,648	Mar. 27	1821	506	23	1171
Bridle-bit	E. E. Sargeant	289,452	Dec. 4	94	27	25	903
Bridle-bit	C. Scherling	290,803	Dec. 25	1827	504	25	1230
Bridle-bit	O. Wiener, H. Coates, and S. Wiener	285,717	Sept. 25	1906	541	24	1257
Bridle-bit attachment	D. C. McCoy	278,576	May 29	2559	698	23	2096
Bridle-blind	M. L. Hall	281,359	July 17	1276	354	24	238
Bridle-blinder	D. Kaltenbacher	281,080	July 10	913	255	24	168
Bridle-rosette	G. Walker	279,677	June 19	1329	369	23	2364
Briers. Implement for cutting	F. and E. S. P'Pool	280,667	July 3	393	110	24	70
Bristle-setting apparatus	J. J. C. Smith	276,488	Apr. 24	2074	576	23	1606
Bristle-washing machine	J. S. White	282,940	Aug. 7	548	155	24	596
Broiler	W. Hailes	284,295	Sept. 4	172	49	24	933
Broiler	O. Whyte	285,864	Oct. 2	106	31	25	21
Bronzing-machine	J. Humphrey	275,214	Apr. 3	428	117	23	1300
Bronzing-machine	H. R. Sillman	277,621	May 15	1369	369	23	1872
Broom	E. Q. Bowman	273,941	Mar. 13	904	247	23	996
Broom	C. Douglas	283,979	Aug. 28	1626	515	24	855
Broom	R. W. Harper	273,984	Mar. 13	948	261	23	1004
Broom	J. Lay	272,890	Feb. 27	1675	468	23	735
Broom	D. B. Turney	288,959	Nov. 20	1465	405	25	779
Broom and dust-pan holder	S. P. Porter	276,462	Apr. 24	2046	568	23	1600
Broom-corn. Cutting and preparing	J. B. Beale	274,702	Mar. 27	1885	.....	23	1182
Broom-handle attachment	F. W. Lincoln	277,298	May 8	981	263	23	1801

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Broom-holder	E. G. Eyster	279,481	June 12	1091	301	23	2316
Broom holder. Whisk or other	T. H. Doyle	274,471	Mar. 27	1583	434	23	1130
Broom-support	S. W. Barnett	270,624	Jan. 16	982	284	23	209
Broom-support	P. A. Bowen and J. W. Suetterle	290,315	Dec. 18	1172	328	25	1109
Broom-support	J. Groble	281,185	July 10	1048	290	24	192
Broom-support	J. W. Loeper	288,181	Nov. 6	481	133	25	591
Brush	J. F. Bartlett	269,910	Jan. 2	103	31	23	22
Brush	G. Brintzinghoffer	290,522	Dec. 18	1458	403	25	1158
Brush	H. E. Fowler	286,804	Oct. 16	1288	349	25	248
Brush	L. Havasy	273,524	Mar. 6	362	96	23	596
Brush	S. K. Hawkins	277,899	May 22	1696	463	23	1938
Brush	D. A. McDonel	273,867	Mar. 13	815	220	23	982
Brush	J. M. Moore	275,932	Apr. 17	1380	320	23	1479
Brush	I. C. Wells	271,960	Feb. 6	452	124	23	520
Brush	J. S. White	282,137	July 31	2288	628	24	420
Brush	J. L. Whiting	271,559	Jan. 30	2154	620	23	428
Brush	H. B. Williams	286,886	Oct. 16	1391	382	25	266
Brush and blacking-box holder. Combined blacking-	E. L. Wood	275,107	Apr. 3	297	82	23	1277
Brush. Automatic fly-	D. L. Lockwood	284,867	Sept. 11	869	243	24	1058
Brush-block-boring machine	J. C. Hall and C. A. Mable	284,128	Aug. 28	2035	566	24	890
Brush-blocks. Machine for boring	W. S. McKinney	276,188	Apr. 24	1693	468	23	1540
Brush. Electric	J. N. Aronson	279,315	June 12	871	242 243	23	2281
Brush for bronzing, &c	J. F. Sargent	274,978	Apr. 3	122	34	23	1247
Brush for cleaning milk-cans	J. J. Quinn	287,719	Oct. 30	2474	667	25	480
Brush for cleansing water-closets, &c. Flexible	C. F. Pike	270,979	Jan. 23	1431	413	23	295
Brush. Fountain-	J. Stevens	288,598	Nov. 13	1019	280	25	694
Brush-handle	S. B. Stanton	287,187	Oct. 23	1783	489	25	343
Brush-holder	J. and R. Engel	277,471	May 15	1187	319	23	1843
Brush holder. Paint-	J. B. Cowley and S. S. Morse	288,692	Nov. 20	1141	314	25	721
Brush holder. Paint-	A. T. Edwards	286,405	Oct. 9	789	213	25	153
Brush. Paint-	J. C. Mount	272,896	Feb. 27	1681	470	23	756
Brush protector. Paint-	H. Dischinger	271,814	Feb. 6	278	77	23	490
Brush. Shoe-	J. D. Moore	274,016	Mar. 13	988	271	23	1011
Brush. Upholstery-	J. A. Illingworth	275,827	Apr. 17	1258	346	23	1456
Brush. Whitewash-	W. H. Sheeler	288,187	Nov. 6	485	135	25	592
Brushes. Machine for milling bone blanks for tooth-	A. C. Estabrook	279,728	June 19	1383	386	23	2373
Brushes. Manufacture of	A. C. Estabrook	278,660	May 29	2664	729	23	2114
Bucket and stool. Combined milk-	A. Woodward	271,291	Jan. 30	1810	525	23	367
Bucket for conveying ensilage, coal, plaster, &c	J. A. Cross	270,756	Jan. 16	1156	331	23	241
Bucket. Milk-	C. L. Rogers and G. W. Wolf	287,726	Oct. 30	2462	669	25	482
Bucket. Milk-	A. Woodward	271,293	Jan. 30	1811	525	23	367
Bucket. Slop-	H. Pound	289,135	Nov. 27	1681	466	25	825
Bucket-washing machine	J. D. Shearman	285,312	Sept. 18	1408	398	24	1162
Bucket. Well-	J. Brunny	284,374	Sept. 4	260	72	24	948
Buckle	F. Armstrong	287,081	Oct. 23	1648	452	25	318
Buckle	G. W. Blake	272,197	Feb. 13	758	209	23	583
Buckle	O. P. Borg	287,798	Nov. 6	12	4	25	509
Buckle	W. R. Clough	286,264	Oct. 9	593	162	25	119
Buckle	W. H. Dodd	273,476	Mar. 6	306	83	23	885
Buckle	G. N. Freer	279,237	June 12	774	214	23	2265
Buckle	D. G. Gay	279,148	June 12	685	187	23	2250
Buckle	R. G. Hanford, Jr	275,204	Apr. 3	418	114	23	1298
Buckle	E. M. Kinne	270,227	Jan. 9	476	140	23	104
Buckle	R. McCloskey and D. J. Coleman	280,319	June 26	2095	589	23	2505
Buckle	W. F. Mitchell	289,684	Dec. 4	387	111	25	955
Buckle	E. L. Packer	279,424	June 12	1022	284	23	2305
Buckle	J. A. Park	272,754	Feb. 20	1474	415	23	713
Buckle	J. A. Park	272,755	Feb. 20	1475	415	23	713
Buckle	J. A. Park	272,756	Feb. 20	1476	415	23	713
Buckle	R. Porter	283,278	Aug. 14	966	269 270	24	679
Buckle	G. E. Stedman	272,344	Feb. 13	937	260	23	614
Buckle	F. W. Thomas	275,545	Apr. 10	691	241	23	1386
Buckle	J. Thomas	273,636	Mar. 6	507	136	23	921
Buckle	J. Thomas	273,637	Mar. 6	508	136	23	921
Buckle	J. Thomas	274,412	Mar. 20	1498	413	23	1108
Buckle	J. L. Thomson	290,816	Dec. 25	1844	510	25	1233
Buckle and loop. Harness	L. Hattson	281,870	July 24	1935	529	24	356
Buckle and trace-carrier	W. S. Brown	278,501	May 29	2475	675	23	2081
Buckle attachment	G. B. Northrup	272,748	Feb. 20	1469	413	23	712
Buckle for harness, &c	M. E. Simmons	279,028	June 5	510	139	23	2210
Buckle-frames. Making	H. E. Fowler	276,797	May 1	344	92	23	1686
Buckle. Harness-	W. C. Agnew	280,991	July 10	805	224	24	148
Buckle. Harness-	A. Cadwell	276,223	Apr. 24	1736	480	23	1548
Buckle. Harness-	J. Hosack	277,901	May 22	1698	463	23	1938
Buckle. Harness-	J. H. Huntress	271,465	Jan. 30	2045	588	23	409
Buckle. Harness-	W. C. Kellar and R. R. Ditzel	270,680	Jan. 16	1059	302	23	222
Buckle. Harness-	W. E. Minneley	284,467	Sept. 4	373	104	24	967
Buckle. Harness-	R. Porter	282,366	July 31	2575	706	24	469
Buckle. Harness-	S. S. Sargeant	285,434	Sept. 25	1565	441	24	1194
Buckle. Harness-	W. G. Slater	278,054	May 22	1879	514	23	1969
Buckle. Harness-	M. E. Zeller	271,564	Jan. 30	2163	623	23	429
Buckle. Rosette-	F. Hartman	275,824	Apr. 17	1255	345	23	1456
Buckle. Trace-	D. T. Harbison	287,125	Oct. 23	1702	466	25	329
Buckle. Trace-	P. Hayes	279,382	June 12	974	270	23	2297
Buckle. Trace-	E. G. Latta	283,259	Aug. 14	946	264	24	676
Buckle. Trace-	J. O'Brien	288,475	Nov. 13	873	236	25	668
Buckle. Trace-	J. Thornton	274,849	Mar. 27	2050	572	23	1211
Buckle. Trace-	T. Wadleigh	284,262	Sept. 4	131	36	24	927
Buckle. Trace-	J. B. Woolsey	270,534	Jan. 9	869	253	23	180
Buckle. Tug-	R. K. Burt	282,267	July 31	2446	673	24	447
Buffer	R. P. Garsed	278,007	May 22	1826	499	23	1959
Buffing and polishing machine	S. Feust	270,294	Jan. 9	554	163	23	118

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Buffing and polishing machine	S. Feust	272,871	Feb. 27	1644	460	23	750
Buffing-machine	G. W. Coffin	271,222	Jan. 30	1723	499	23	352
Buffing-machine	G. W. Emerson	281,355	July 17	1271	353	24	237
Buffing-pad	J. L. Cross	290,631	Dec. 18	1598	439	25	1182
Buffing-wheel	J. R. Abbe	277,097	May 8	742	194, 195	23	1758
Buffing-wheel	J. R. Abbe	284,705	Sept. 11	673	189	24	1094
Buffing-wheel	R. Binns	274,456	Mar. 27	1568	429	23	1127
Buggy-bow spring	S. McElhaney	272,071	Feb. 13	606	164	23	557
Buggy-gearing	E. and B. H. Ziegler	283,843	Aug. 28	1662	469	24	825
Buggy-seat shifting-rail	S. R. Parker and P. P. Deveny	280,660	July 3	384	108	24	68
Buggy-top	S. N. Lennon	288,247	Nov. 13	567	157, 158	25	615
Buggy-top	S. N. Lennon. (Reissue)	10,380	Sept. 11	1022	287	24	1087
Buggy-top	D. G. Wyeth	270,195	Jan. 2	432	125	23	88
Buggy-top brace	A. B. Davis	286,272	Oct. 9	601	165	25	120
Building-block	J. A. Crandall	270,206	Jan. 9	450	131	23	99
Building block or brick	A. Ingalls	272,883	Feb. 27	1667	466	23	753
Building block or brick	J. L. Smithmeyer	279,836	June 19	1504	421	23	2395
Building. Fire-proof	W. L. Black	278,491	May 29	2462	671	23	2079
Building. Fire-proof	W. H. Dolman	286,401	Oct. 9	784	212	25	153
Building. Fire-proof	P. G. Hubert	283,345	Aug. 14	1054	296	24	697
Building-front	P. H. Jackson	289,105	Nov. 27	1646	456, 457	25	818
Building. Knockdown or portable	L. F. Bronnum	271,308	Jan. 30	1828	530	23	370
Building material and preparing the same. Composite	F. W. Bartlett	271,209	Jan. 30	1710	495	23	349
Building. Portable	V. W. Blanchard	271,776	Feb. 6	228	64, 65	23	480
Building. Rat-proof	J. Hicks	282,636	Aug. 7	196	57	24	534
Buildings. Mechanism for raising lines to the upper parts of	G. O. Daw	283,580	Aug. 21	1343	375	24	755
Buildings, ships, &c. Construction of	C. L. Staub	277,952	May 22	1753	478	23	1946
Bullet and making the same. Patched	H. F. Clark	286,387	Oct. 9	763	207	25	149
Bulletin-board	C. H. Tessy	278,630	May 29	2631	719	23	2108
Bundling-machine	G. A. White	283,049	Aug. 14	687	193	24	629
Bung	J. Church	275,588	Apr. 10	937	255	23	1394
Bung and bush	W. Seng	276,902	May 1	472	124	23	1709
Bung and bushing	S. R. Thompson. (Reissue)	10,368	Aug. 14	1089	305	24	702
Bung and vent tube for kegs	B. Schock	275,790	Apr. 10	1203	329	23	1439
Bung. Barrel	R. J. Flood and J. Richardson	270,942	Jan. 23	1382	399	23	288
Bung. Barrel	H. Werle	273,788	Mar. 13	714	193	23	965
Bung-bush and stamp-protector. Combined	P. G. Neisendorfer	286,474	Oct. 9	864	234	25	168
Bung-bushes. Machine for threading	C. E. Roberts	277,160	May 8	893	217, 218	23	1773
Bung-extractor	C. Macher and J. L. Lins	287,305	Oct. 23	1934	528	25	370
Bung-extractor	B. Notting	285,655	Sept. 25	1822	519	24	1243
Bung for beer-barrels	A. C. Jameson	280,830	July 10	614	171, 172	24	114
Bung for casks, barrels, &c	W. W. Jackson	280,931	July 10	779	206	24	136
Bung for racking-barrels	F. Gareis	272,039	Feb. 13	566	153	23	550
Bung for the preservation of beer	H. Theilmann	277,960	May 22	1763	480	23	1948
Bung-hole protector	H. Gintz	270,050	Jan. 2	261	75	23	53
Bung. Locked	G. F. Hildenbrand, W. Klein, and C. Trumper.	284,848	Sept. 11	848	239	24	1055
Bung-valve for barrels	A. E. Witherell and D. B. Clement	288,390	Nov. 13	767	207	25	648
Buntline for reefing sails	I. A. Storer	272,171	Feb. 13	726	200	23	578
Buoy. Oil-discharging	J. Shields	289,720	Dec. 4	440	123	25	963
Burglar-alarm	O. Conrad	289,624	Dec. 4	311	87	25	942
Burglar-alarm	B. Fay	285,023	Sept. 18	1073	300	24	1102
Burglar-alarm	H. Ferris	286,598	Oct. 16	1030	278	25	203
Burglar-alarm	F. D. Hill	284,012	Aug. 28	1892	530	24	865
Burglar-alarm	G. M. Pratt	290,605	Dec. 18	1565	430	25	1177
Burglar-alarm	W. H. Reiff	284,980	Sept. 11	1002	282	24	1083
Burglar-alarm	W. H. Wright	280,002	June 26	1714	480	23	2437
Burglar-alarm and door-bell	L. E. Williams	279,064	June 5	554	152	23	2218
Burglar-alarm and door-securer. Combined	H. M. and C. E. Moore	280,501	July 3	206	54	24	37
Burglar-alarm attachment for automatic signaling apparatus. Electric	W. F. Chester	280,578	July 3	291	80, 81	24	52
Burglar-alarm circuit-closer	W. C. Fisher	279,483	June 12	1093	302	23	2316
Burglar-alarm circuit-closer	J. L. Lazelle	289,665	Dec. 4	363	102, 103	25	951
Burglar-alarm. Detonating	W. Noblett	287,850	Nov. 6	71	21	25	520
Burglar-alarm. Detonating	W. H. Reiff	287,722	Oct. 30	2477	668	25	481
Burglar-alarm. Electric	O. A. Helman	280,472	July 3	175	46	24	32
Burglar-alarm. Electric	C. T. Jackson	269,862	Jan. 2	49	15	23	12
Burglar-alarm. Electric	J. Tomney	289,470	Dec 4	115	34	25	907
Burglar-alarm. Electric	J. Tomney	289,471	Dec. 4	120	34, 35	25	908
Burglar-alarm. Electric	A. Wiswall	285,334	Sept. 18	1431	405	24	1166
Burglar-alarm. Ringing	T. E. James	277,738	May 15	1496	406	23	1895
Burglar-alarm. Ringing	A. W. Lawson	277,296	May 8	980	263	23	1801
Burial apparatus	J. H. Wunderlich	289,878	Dec. 11	635	176	25	1004
Burial-case	F. C. Goff	289,643	Dec. 4	336	94	25	946
Burial-case	M. Goff	282,072	July 31	2188	601	24	405
Burial-case	G. Nierstheimer	290,996	Dec. 25	2079	573	25	1271
Burial-case	N. Woodruff	277,969	May 22	1777	484	23	1950
Burial-case	N. Woodruff	277,970	May 22	1777	485	23	1950
Burial-case mold	C. E. Wilson	275,004	Apr. 3	152	42	23	1252
Burial-casket	G. W. and S. S. Comee	281,024	July 10	844	234	24	156
Burial-casket	G. S. Eaton	274,575	Mar. 27	1733	481	23	1154
Burial-casket	A. Freschl	278,929	June 5	389	106	23	2189
Burial-casket	W. Hamilton	275,201	Apr. 3	415	113	23	1297
Burial-casket	D. B. Hiser	288,804	Nov. 20	1277	350	25	745
Burial-casket	J. Maxwell and H. F. Quint	283,002	Aug. 14	631	178	24	619
Burial-casket	W. H. Powers and J. H. Walker	275,265	Apr. 3	487	135	23	1309

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Burial-casket	W. A. Sparks	288,189	Nov. 6	487	136	25	592
Burial-casket	W. A. Sparks	289,783	Dec. 4	508	141	25	974
Burial-casket	J. H. Walker	276,312	Apr. 24	1848	515	23	1566
Burial-casket catch	W. C. Langenau	275,503	Apr. 10	837	226	23	1377
Burial-casket catch	W. C. Langenau	281,277	July 17	1171	323	24	220
Burial-casket fastener	S. Reynolds and L. Sander	290,931	Dec. 25	1967	548	25	1257
Burial-casket pedestal	I. G. Hatcher	283,885	Aug. 28	1711	482	24	833
Burial-caskets. Basket for	M. L. Johnson	275,665	Apr. 10	1046	283	23	1413
Burial-caskets, &c. Lining for	J. W. Stansbury and J. M. Hedrick	283,526	Aug. 21	1276	.....	24	742
Burial-caskets. Trimming for	C. W. Compton	285,114	Sept. 18	1163	331	24	1121
Burner:							
See Gas-burner. Illuminating-burner.							
Gas-lighting burner. Lamp-burner.							
Gas or oil burner. Oil-burner.							
Hydrocarbon-burner. Vapor-burner.							
Burning crude petroleum. Device for	R. A. Bury and R. M. Bidelman	283,465	Aug. 21	1207	339	24	730
Burning-fluids. Reservoir for	A. L. Mack	286,211	Oct. 9	527	145	25	107
Burring-machine	F. G. Sargent	270,988	Jan. 23	1441	415	23	297
Bush-box for spindles	H. Heard	269,854	Jan. 2	42	13	23	11
Bush for bung-holes. Metallic	C. H. Brady	280,343	July 3	6	2	24	4
Bush for vertical shafts	P. Steinmetz and J. Geisinger	275,867	Apr. 17	1310	361	23	1466
Bushing. Faucet-	C. H. Shaw	270,559	Jan. 9	901	260	23	185
Bushing for couplings	E. Storm	270,857	Jan. 16	1268	366	23	263
Bushing for faucets	C. H. Brady	280,344	July 3	7	3	24	4
Bushing for loose pulleys	J. Foschinbaur	277,257	May 8	931	250	23	1792
Bushing for sheaves of pulley-blocks	J. Cochran	282,056	July 31	2165	594	24	401
Bushing for tube-sheets	J. Strachan	278,625	May 29	2623	716	23	2107
Bushing. Metallic	C. Hemje	289,654	Dec. 4	350	98	25	949
Bustle	C. A. Allen	280,553	July 3	259	69	24	47
Bustle	T. C. Cassidy	290,533	Dec. 18	1473	407	25	1161
Bustle	A. Kelley	287,029	Oct. 23	1583	436	25	305
Bustle	J. R. Rhenbottom and F. M. Mack	275,710	Apr. 10	1096	299	23	1421
Bustle and corset. Combined	M. A. Waterhouse	290,505	Dec. 18	1435	397	25	1154
Bustle and hip-pad. Combined	C. M. Strong	286,562	Oct. 9	977	263	25	188
Butter. Apparatus for manufacturing artificial	J. Hobbs	271,239	Jan. 30	1741	504	23	355
Butter. Apparatus for manufacturing artificial	J. Hobbs	271,243	Jan. 30	1745	505	23	356
Butter, &c. Apparatus for treating artificial	J. Hobbs	271,241	Jan. 30	1743	504	23	355
Butter, &c. Apparatus for treating artificial	J. Hobbs	271,242	Jan. 30	1744	505	23	356
Butter. Apparatus for treating artificial	J. Hobbs	271,244	Jan. 30	1746	505	23	356
Butter-box	A. Sweatt	286,157	Oct. 2	461	125	25	85
Butter-case	F. Leete and W. C. Wilbur	275,225	Apr. 3	441	122	23	1302
Butter holder or jar	F. Sibley	277,948	May 22	1749	477	23	1945
Butter jar, box, and cover. Glass	W. W. Weston	289,589	Dec. 4	273	77	25	935
Butter. Making artificial	S. H. Cochran	285,678	Oct. 2	125	36	25	24
Butter. Manufacture of artificial	A. J. Chase	286,778	Oct. 16	1256	340	25	243
Butter. Manufacturing artificial	J. Hobbs	271,240	Jan. 30	1742	504	23	355
Butter-mold	D. C. Spitzer	285,851	Oct. 2	88	26	25	18
Butter-package	H. P. Barber	285,950	Oct. 2	221	62	25	42
Butter-package	J. C. Brown	273,020	Feb. 27	1823	510	23	780
Butter-package	J. F. Ellis	277,696	May 15	1452	392	23	1887
Butter-package	W. H. Roberts	276,882	May 1	448	120	23	1705
Butter-package	L. Wells	284,927	Sept. 11	938	263	24	1071
Butter-package fastening	W. H. Roberts	286,073	Oct. 2	363	100	25	66
Butter-preserving can	A. B. Williams	285,332	Sept. 18	1430	404	24	1166
Butter-tub	H. F. Coombs	289,390	Dec. 4	20	6	25	891
Butter-worker	E. F. Del Bondio	276,006	Apr. 17	1465	404	23	1494
Butter-working machine	A. H. Reid	283,142	Aug. 14	794	222	24	647
Butter-working machine	J. Wasson and R. T. Hitt	286,879	Oct. 16	1383	379	25	265
Button	W. C. Ames	287,992	Nov. 6	261	74	25	553
Button	M. Bray	280,788	July 10	569	159	24	107
Button	T. J. Close	277,005	May 8	618	162	23	1738
Button	J. W. Cole	277,886	May 22	1660	458	23	1934
Button	J. Costello	278,314	May 29	2235	613	23	2038
Button	J. Costello	290,321	Dec. 18	1180	330	25	1110
Button	H. Dreyfus	277,999	May 22	1816	496	23	1958
Button	G. P. Farmer	275,619	Apr. 10	989	267	23	1403
Button	G. P. Farmer. (Reissue)	10,340	June 12	1134	314	23	2323
Button	F. Gay	283,233	Aug. 14	909	253	24	669
Button	R. J. Gilmore	283,235	Aug. 14	912	254	24	669
Button	C. V. Goddard	283,772	Aug. 28	1580	446	24	812
Button	L. Goddu	289,829	Dec. 11	572	160	25	993
Button	L. Goddu	289,830	Dec. 11	573	160	25	993
Button	J. H. Gregory	288,053	Nov. 6	331	93	25	564
Button	M. W. Henius	270,665	Jan. 16	1039	298	23	219
Button	W. Hüger	280,023	July 3	344	95	24	61
Button	R. H. Isbell	278,556	May 29	2538	692	23	2092
Button	C. H. Kapp	275,218	Apr. 3	433	118	23	1300
Button	N. C. Newell	273,132	Feb. 27	1963	552	23	806
Button	N. C. Newell	273,133	Feb. 27	1964	552	23	806
Button	N. C. Newell	279,002	June 5	471	129	23	2204
Button	N. C. Newell	290,092	Dec. 11	890	253	25	1051
Button	G. T. Pitts	285,306	Sept. 18	1401	396	24	1161
Button	C. Radcliffe	289,138	Nov. 27	1685	468	25	825
Button	W. S. Rogers	280,767	July 3	531	149	24	94
Button	A. H. Savage	272,586	Feb. 20	1265	352	23	676
Button	S. W. Shorey	283,032	Aug. 14	667	188	24	626
Button	J. S. Smith	272,491	Feb. 20	1146	322	23	655
Button	C. S. Snively and W. F. Palmer	286,860	Oct. 16	1358	372	25	261
Button	E. Wuerfel	281,425	July 17	1356	374	24	251
Button and button-fastener	C. Erlanger	290,409	Dec. 18	1289	362	25	1130
Button and button-fastener	A. McKevit	272,736	Feb. 20	1452	407	23	709
Button and fastener	C. Daggett	272,123	Feb. 13	676	184	23	569
Button and fastener	G. W. Prentice	290,353	Dec. 18	1219	342	25	1117
Button and glove hook	F. B. Bracking	289,213	Nov. 27	1777	492	25	842

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Button and necktie-retainer. Combined collar	L. Stein	283,528	Aug. 21	1278	357	24	742
Button and scarf-ring. Combined collar	J. H. Race	275,412	Apr. 10	720	192	23	1358
Button-attaching instrument	P. H. Sweet, Jr	282,130	July 31	2280	626	24	419
Button. Collar	J. E. Vanderbilt	271,954	Feb. 6	447	122	23	519
Button. Cuff	E. F. Pflueger	290,604	Dec. 18	1565	430	25	1177
Button. Duplex sleeve	F. E. Williams	277,095	May 8	740	194	23	1758
Button-fastener	W. J. Ethell and M. D. L. Swank	282,872	Aug. 7	476	134	24	585
Button-fastener	C. L. Farnsworth	280,730	July 3	471	134	24	84
Button-fastener	F. D. Ford	279,560	June 19	1191	330	23	2340
Button-fastener	R. J. Gilmore	281,992	July 24	2080	571	24	381
Button-fastener	H. Howson	286,929	Oct. 16	1445	397	25	275
Button-fastener	E. Kempshall	282,903	Aug. 7	510	143	24	591
Button-fastener	J. H. McClure	281,899	July 24	1974	540	24	363
Button-fastener	A. McKevit	269,870	Jan. 2	56	18	23	13
Button-fastener	S. L. Pratt	278,734	June 5	75	23	23	2137
Button-fastener	G. W. Prentice	271,267	Jan. 30	1776	516	23	361
Button-fastener	G. W. Prentice	272,318	Feb. 13	906	253	23	610
Button-fastener	G. W. Prentice	278,266	May 22	2154	592	23	2016
Button-fastener	G. W. Prentice	278,360	May 29	2303	630	23	2051
Button-fastener	H. Schmoele	272,587	Feb. 20	1266	353	23	676
Button-fastener	F. A. Smith, Jr	272,913	Feb. 27	1699	475	23	759
Button-fastener	F. A. Smith, Jr	276,638	May 1	116	31	23	1647
Button-fastener	F. A. Smith, Jr	277,169	May 8	837	221	23	1775
Button-fastener	P. H. Sweet, Jr	275,435	Apr. 10	752	200	23	1363
Button-fastener	P. H. Sweet, Jr	290,139	Dec. 11	948	268	25	1062
Button-fastener	J. F. Thayer	276,645	May 1	125	33	23	1648
Button-fastener	J. F. Thayer	277,082	May 8	726	190	23	1756
Button-fasteners. Machine for making	M. M. Zellers	284,158	Aug. 28	2072	575 576	24	896
Button-fastening	J. K. Alters	271,185	Jan. 23	1682	485	23	336
Button-fastening	A. Hall	274,316	Mar. 20	1377	378	23	1086
Button-fastening	W. M. Hazel	272,836	Feb. 20	1587	446	23	733
Button-fastening	E. Ivins and D. Snyder	290,774	Dec. 25	1789	494	25	1224
Button-fastening	G. W. Prentice	274,376	Mar. 20	1456	399	23	1100
Button-fastening	G. W. Prentice	283,813	Aug. 28	1630	459	24	819
Button-fastening	G. W. Prentice	284,978	Sept. 11	1000	282	24	1083
Button-fastening	F. A. Smith, Jr	284,912	Sept. 11	925	260	24	1069
Button-fastening	P. H. Sweet, Jr	273,405	Mar. 6	214	58	23	870
Button-fastening machine	A. Hall	286,921	Oct. 16	1436	395	25	274
Button-fastening staple	J. H. Goodfellow	273,724	Mar. 13	616	166	23	947
Button-fastenings. Implement for setting	W. E. Hagan	290,680	Dec. 25	1659	458	25	1199
Button-flies. Press-clamp for	I. Felber	282,711	Aug. 7	296	84	24	551
Button-fly lap and staying-piece. Combined	D. W. Thompson	276,926	May 1	503	131	23	1713
Button-hole cutter	J. H. Osborne	277,602	May 15	1343	362	23	1967
Button-hole cutter and tracer	A. J. Curtis	278,103	May 22	1936	531	23	1979
Button-hole linings. Machine for making	D. Harris	282,078	July 31	2194	602 603	24	406
Button-hole linings. Machine for making leather	C. Dancel	272,376	Feb. 13	979	273 274	23	622
Button-holes. Making	J. Ware	278,473	May 29	2439	665	23	2075
Button-hook	G. Clark	277,232	May 8	900	240	23	1786
Button-hook	G. Havell	289,095	Nov. 27	1635	452	25	816
Button-hook	G. L. Witsil	277,181	May 8	848	225	23	1777
Button. Lacing	G. W. Prentice	287,859	Nov. 6	81	24	25	521
Button-lap and stay-piece for garment-slits. Combined	D. W. Thompson	289,469	Dec. 4	113	34	25	907
Button-machine	Z. B. Pierce	279,180	June 12	716	195 196	23	2255
Button. Metallic	E. N. Foote	274,582	Mar. 27	1746	484	23	1156
Button or stud	I. S. Burke	278,395	May 29	2343	640	23	2058
Button or stud	W. W. Covell	283,864	Aug. 28	1685	476	24	829
Button or stud	J. Moore	278,724	June 5	63	19	23	2135
Button or stud	C. H. Niggeman	281,642	July 17	1626	444	24	296
Button or stud	T. A. Searle	281,404	July 17	1330	368	24	247
Button or stud	T. W. F. Smitten	276,917	May 1	488	128	23	1711
Button or stud	E. H. Spencer, Jr	285,080	Sept. 18	1137	317	24	1113
Button or stud. Detachable	S. J. Allen	289,370	Dec. 4	2	1	25	887
Button. Pearl	H. Smith	287,969	Nov. 6	228	65	25	547
Button-pin	M. V. Quinn	286,222	Oct. 9	539	148	25	109
Button-press	G. O. Schneller	286,079	Oct. 2	369	102	25	68
Button. Separable	D. Humphreys	274,607	Mar. 27	1775	493	23	1162
Button. Separable	T. Jarvis	279,568	June 19	1199	332	23	2341
Button. Separable	R. E. Kelsey and C. H. Shuttleworth	270,593	Jan. 16	948	274	23	203
Button. Separable	A. McKevit	272,968	Feb. 27	1759	492	23	769
Button. Separable	W. N. Rowe	279,279	June 12	825	229	23	2274
Button. Separable	A. G. Weber	290,614	Dec. 18	1575	433	25	1179
Button-setting apparatus	W. A. Boland	288,401	Nov. 13	782	211	25	651
Button-setting implement	J. H. Goodfellow	286,537	Oct. 9	943	254	25	182
Button-setting instrument	G. H. Alton	283,453	Aug. 21	1193	335	24	728
Button-setting instrument	J. F. Atwood	285,782	Oct. 2	5	2	25	4
Button-setting instrument	J. H. Goodfellow	288,228	Nov. 13	540	150	25	611
Button-setting instrument	S. L. Pratt	278,735	June 5	76	23	23	2137
Button-setting instrument	S. L. Pratt and A. M. English	287,389	Oct. 23	2032	552	25	387
Button-setting instrument	G. W. Prentice	274,028	Mar. 13	1000	274	23	1013
Button-setting instrument	F. A. Smith, Jr	280,408	July 3	84	23	24	18
Button-setting instrument	F. A. Smith, Jr	284,913	Sept. 11	925	260	24	1069
Button-setting instrument	P. H. Sweet, Jr	274,841	Mar. 27	2040	568	23	1209
Button-setting instrument	J. F. Thayer	272,918	Feb. 27	1703	476	23	759
Button-setting instrument	J. F. Thayer	272,919	Feb. 27	1704	477	23	760
Button-setting instrument	J. F. Thayer	274,053	Mar. 13	1028	281	23	1018
Button-setting machine	E. D. Welton	284,928	Sept. 11	939	264	24	1071
Button. Shoe	J. G. Wiggins	280,270	June 26	2033	572	23	2494
Button. Sleeve	R. E. Brunacci	278,772	June 5	118	33	23	2144
Button. Sleeve	S. C. Howard	273,844	Mar. 13	782	212	23	976

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Button. Sleeve	E. S. Mason	281,093	July 10	926	258	24	171
Button. Sleeve or collar	S. J. Allen and J. B. Richardson	288,964	Nov. 27	1475	409	25	789
Button. Sleeve or collar	J. H. Booth	286,770	Oct. 16	1246	337	25	241
Button. Sleeve or cuff	W. W. Young	274,245	Mar. 20	1290	355	23	1072
Button. Sleeve or other	J. W. Miller	280,214	June 26	1960	552	23	2482
Button-stay	D. J. Kelley	277,574	May 15	1314	353	23	1863
Buttons, &c. Attaching	J. F. Atwood	285,781	Oct. 2	4	1	25	3
Buttons. Attaching	G. W. Prentice	286,732	Oct. 16	1203	324	25	233
Buttons. Attaching	G. W. Prentice	289,136	Nov. 27	1681	467	25	825
Buttons. Attaching	F. A. Smith, Jr	286,740	Oct. 16	1211	326	25	235
Buttons. Hand-machine for attaching	M. M. Zellers and A. G. Wilkins	284,159	Aug. 28	2075	576, 577	24	896
Buttons. Implement for attaching	J. H. Goodfellow	290,181	Dec. 11	991	280	25	1070
Buttons. Instrument for attaching	P. H. Sweet, Jr	288,136	Nov. 6	424	120	25	582
Buttons. Machine for attaching	G. H. Alton	284,111	Aug. 28	2011	560	24	886
Buttons. Machine for attaching	F. A. Smith, Jr	286,741	Oct. 16	1211	326, 327	25	235
Buttons. Machine for attaching	P. H. Sweet, Jr	274,407	Mar. 20	1493	411	23	1107
Buttons. Machine for attaching	A. G. Wilkins	282,821	Aug. 7	412	116, 117	24	573
Buttons. Machine for securing	B. C. Young	271,183	Jan. 23	1680	484	23	335
Buttons. Manufacture of	J. H. Manning	286,620	Oct. 16	1060	285	25	209
Buttons. Manufacture of shoe	C. E. Bailey and W. R. Talbot	273,932	Mar. 13	693	244	23	995
Buttons. Metallic eye for	H. C. Luther	281,637	July 17	1622	433	24	295
Buttons. Setting-instrument for attaching	W. M. Hazel	278,012	May 22	1834	500	23	1961
Buttons to fabrics. Instrument for attaching	P. H Sweet, Jr	288,135	Nov. 6	423	119	25	582
Buttoner. Glove and shoe	S. F. Estell	288,700	Nov. 20	1148	316	25	792
Cabbage-cutting machine	G. Geyer	272,132	Feb. 13	687	187	23	570
Cabinet for type-writers and sewing-machines	W. Horrocks	281,765	July 24	1802	492	24	332
Cabinet-lock	F. W. Mix	280,327	Oct. 9	697	186	25	137
Cable carrier. Endless	C. W. Crismon and A. F. Whitaker	280,295	June 26	2063	580	23	2500
Cable gearing. Endless	W. B. Ross	283,228	Oct. 9	544	149	25	110
Cable-grip	B. F. Carman	288,690	Nov. 20	1138	313	25	720
Cable-grip apparatus	H. Dods and F. Hindes	290,003	Dec. 11	789	222	25	1032
Cable grip, &c. Endless	A. Haman	287,377	Oct. 23	2018	549	25	385
Cable gripper. Traction	A. H. Lighthall	274,506	Mar. 27	1649	458	23	1140
Cable roads. Track and switch for	S. H. Terry	270,510	Jan. 9	838	243	23	173
Cable-stopper	O. Lynch	276,841	May 1	395	105	23	1695
Cable. Underground	W. and T. G. McMahon	273,869	Mar. 13	816	221	23	982
Cable. Underground multiple-wire	J. F. Martin	286,948	Oct. 16	1473	404	25	280
Cable used in propelling cars. Supporting	M. Arnheim	283,058	Aug. 14	698	196	24	631
Cable-way. Underground	A. H. Lighthall	274,505	Mar. 27	1647	458	23	1140
Cable ways. Grip for endless	L. J. Wing	281,815	July 24	1870	511	24	345
Cable ways. Grip or clutch to be used on endless	W. A. Gilday and T. M. Heckman	289,527	Dec. 4	194	55	25	920
Cable-ways. Transmitting power from	S. H. Terry	270,509	Jan. 9	836	243	23	173
Cables or conductors. Suspending	C. E. Chinnock	274,562	Mar. 27	1719	477	23	1152
Cables. Testing lead-covered	W. J. McElroy	284,137	Aug. 28	2046	568, 569	24	892
Cables. Testing lead-covered	H. Van Hoevenberg	284,094	Aug. 28	1987	553	24	882
Caddy or canister	G. Lillibridge	279,261	June 12	806	223	23	2271
Caisson. Floating	P. H. Loud	272,722	Feb. 20	1432	402	23	706
Caisson-gate	G. F. Schild	287,178	Oct. 23	1771	485, 486	25	341
Cake-beater	W. C. Girn	290,033	Dec. 11	823	232	25	1038
Cake. Device for ornamenting	A. J. Fish	279,555	June 19	1187	328	23	2339
Cake-frying device	J. M. Andrese	280,778	July 10	558	156	24	105
Cake, jumble, and snap machine	M. De Tambel	278,318	May 29	2238	614, 615	23	2039
Cakes, &c. Machinery for ornamenting	J. H. Mitchell	271,898	Feb. 6	374	103, 104	23	507
Calcimine compound	B. L. James	278,969	June 5	434	.....	23	2197
Calcimining compound	C. M. McCarty	283,130	Aug. 14	781	.....	24	646
Calculating device	J. S. Duret	283,331	Aug. 14	1036	291	24	693
Calculating device	C. Rowland	284,576	Sept. 4	508	142, 143	24	990
Calculating-machine	C. F. Pidgin and F. H. Leonard, Jr.	284,755	Sept. 11	736	205, 206	24	1035
Calculating-machine	I. E. Tallman	287,192	Oct. 23	1787	490, 491	25	344
Calculator. Interest	M. Todd	271,949	Feb. 6	442	121	23	518
Calculator. Percentage	S. J. Tucker and E. F. Kelly	280,772	July 3	543	151	24	96
Calendar	L. Brauer	270,730	Jan. 16	1123	322	23	235
Calendar	J. Brenner	284,270	Sept. 4	139	39	24	928
Calendar	J. Cussons	277,411	May 8	1106	297	23	1823
Calendar	C. H. Dana, Jr	283,215	Aug. 14	887	247	24	665
Calendar	W. L. Gorton	273,795	Mar. 13	618	166	23	947
Calendar	H. S. Hack	287,022	Oct. 23	1576	434	25	304
Calendar	H. S. Hack	288,329	Nov. 13	677	186	25	632
Calendar	H. H. Ham, Jr	287,281	Oct. 23	1901	520	25	364
Calendar	H. W. Kibbe	285,158	Sept. 18	1214	341	24	1126
Calendar	S. D. Styles	289,167	Nov. 27	1716	479	25	831
Calendar	L. M. Switzler	276,643	May 1	123	33	23	1648
Calendar	H. Taylor	290,280	Dec. 18	1126	317	25	1101
Calendar. Discal	A. B. Freeman and M. F. Richardson	290,763	Dec. 25	1776	491	25	1221
Calender-box. Self-oiling	H. L. Behrens	282,151	July 31	2302	632	24	422
Calendering-machine	M. A. W. Louis	275,676	Apr. 10	1056	287	23	1415
Caliper-gage	E. Sauter	285,684	Sept. 25	1856	530	24	1249
Calipers	G. Amborn, Jr., and E. D. Chaplin	277,973	May 22	1780	486	23	1951
Calipers	R. H. Brown	288,770	Nov. 20	1238	340	25	737
Calipers	R. H. Brown	288,771	Nov. 20	1239	340	25	737
Calipers	R. Crittenden and R. G. Henry	278,225	May 22	2096	577	23	2006
Calipers	A. Nimmo	280,073	June 26	1804	507	23	2453
Calipers	O. D. Warfield	288,961	Nov. 20	1466	405	25	780
Calipers. Adjusting mechanism for	J. J. Byrne	279,534	June 19	1162	322	23	2335

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Calipers and dividers	W. H. Mitchell	286,469	Oct. 9	858	233	25	167
Calipers. Micrometer-	M. M. Barnes	280,339	July 3	2	1	24	3
Calipers. Micrometer-	L. L. Remacle	288,736	Nov. 20	1900	328	25	730
Calipers. Micrometer-	G. F. Stillman	279,038	June 5	522	142	23	2212
Call. Individual	J. C. Wilson	283,448	Aug. 21	1167	334	24	726
Caloric-engine	T. Beesley	270,000	Jan. 2	207	60	23	43
Caloric-engine	J. Buckett	279,396	June 12	891	248, 249	23	2284
Caloric from or communicating it to liquids. Rapidly extracting	C. Tellier	275,437	Apr. 10	756	201, 202	23	1363
Cam. Variable	W. Jones	284,860	Sept. 11	861	242	24	1057
Camel for lightening vessels	J. J. Peetz	287,156	Oct. 23	1740	477	25	336
Camera:							
See Photo-micrographic camera. Photographic camera. Wonder-camera.							
Camera	M. Flammang	271,443	Jan. 30	2009	579	23	403
Camera-box	W. M. Elrod	271,048	Jan. 23	1507	435	23	307
Camera-shutter	D. S. Boydston	272,117	Feb. 13	670	189	23	568
Camera-stand	J. H. Altheide	280,776	July 10	555	155	24	105
Camera-stand	W. R. Wright	277,650	May 15	1403	378	23	1878
Camp-chair	G. S. Knapp	279,398	June 12	996	276	23	2301
Camp chair and cot	W. H. Bakewell	280,004	June 26	1717	481	23	2438
Camp-chair. Folding	S. C. Hopkins	271,246	Jan. 30	1748	506	23	356
Can:							
See Butter-preserving can. Ink-can. Lamp-filling can. Color-can. Milk-can. Cream-can. Milk and cream can. Creaming-can. Milk and cream transporting can. Filling-can. Oil-can. Fluid-can. Paint-can. Fruit-can. Sheet-metal can. Glass-lined metal can. Shipping-can. Hauling-can. Tilting can. Ice-machine can.							
Can	M. T. Barrows	279,521	June 19	1144	317	23	2332
Can	J. A. Frey	279,738	June 19	1394	389	23	2375
Can	G. W. Lane	290,068	Dec. 11	861	245	25	1045
Can	L. Richardson	281,556	July 17	1517	416	24	279
Can and jacket. Carrying-	C. Kivitts	281,374	July 17	1292	358	24	241
Can and making the same	E. Norton	277,920	May 22	1716	469	23	1941
Can-body blanks. Machine for cutting	G. T. Pillings	288,733	Nov. 20	1197	326, 327, 328	25	729
Can-capping machine	C. R. Merriam	278,251	May 22	2128	586	23	2012
Can-ending machine	E. Norton and J. G. Hodgson	274,363	Mar. 20	1440	395, 396	23	1097
Can-filler	J. P. Sheppard	274,039	Mar. 13	1011	277	23	1015
Can-filling apparatus	A. Rockfellow	287,725	Oct. 30	2480	660	25	481
Can-filling machine	H. C. Baxter and H. R. Stickney	284,998	Sept. 18	1036	291	24	1096
Can-filling machine	G. W. Brown and H. Lambert	289,807	Dec. 11	541	151	25	987
Can-filling machine	J. Colbert	286,782	Oct. 16	1261	341	25	243
Can-filling machine	M. Jensen	281,767	July 24	1804	492, 493	24	333
Can-filling machine	L. H. Smith	280,684	July 3	413	116, 117	24	74
Can-filling machine	L. H. Smith	289,155	Nov. 27	1705	473, 474	25	888
Can-filling machine	L. H. Smith	289,156	Nov. 27	1706	474	25	889
Can-heading machine	W. E. Vincent	274,863	Mar. 27	2075	577	23	1214
Can heads and bodies. Machine for forming the joints between	R. C. Anderson	269,908	Jan. 2	101	30	23	21
Can-holder	E. Ivey and A. Uren	283,112	Aug. 14	764	215	24	643
Can-opener	W. D. Lewis	289,919	Dec. 11	687	192	25	1013
Can-opener	J. Rath	280,241	June 26	1998	562	23	2488
Can-opener	J. McWilliams	280,495	July 3	199	52	24	36
Can-opener	O. R. Webster	278,379	May 29	2325	636	23	2055
Can-opener	C. White	273,416	Mar. 6	227	61	23	673
Can-opener and corkscrew. Combined	S. H. Chilcote	283,967	Aug. 28	1812	512	24	853
Can-opener. Combination	H. Hartman	278,951	June 5	415	113	23	2194
Can, pump, and measure. Combined	B. F. Myers	275,934	Apr. 17	1383	380	23	1479
Can-testing machine	E. Norton and J. G. Hodgson	287,048	Oct. 23	1606	441, 442	25	310
Can-top. Removable	C. J. Grainger	290,985	Dec. 25	2067	569	25	1289
Can-washing machine	V. Barker	282,434	July 31	2664	730, 731	24	485
Cans. Closing	T. G. F. Dolby	284,398	Sept. 4	993	282	24	953
Cans. Device for handling fruit-	W. Gregg	274,591	Mar. 27	1755	487	23	1158
Cans. Machine for putting tops and bottoms on	J. G. Jones	271,860	Feb. 6	333	92	23	499
Cans. Stopper for the feeding-holes of	C. H. Shaw	273,400	Mar. 6	909	56	23	869
Canal-boat. Steam	J. Pons	282,923	Aug. 7	529	150	24	594
Canals, flumes, and water-ways. Apparatus for regulating the flow and delivery of water through	J. Emerson	275,371	Apr. 10	660	176, 177	23	1347
Candelabrum	F. A. Kittell	282,458	July 31	2694	740	24	490
Candies, &c. Manufacture of	A. Neuhausen	271,259	Jan. 30	1766	512	23	359
Candies. Process of and apparatus for the manufacture of dipped	J. P. A. Williams	279,209	June 12	744	204	23	2260
Candle	G. H. Kirk	276,602	May 1	72	20	23	1640
Candle. Argand	J. B. Rodman and J. D. Bingham	284,486	Sept. 4	396	111	24	971
Candle-holder	C. Keibel	273,103	Feb. 27	1928	540	23	798
Candle-machine	C. L. Werk	284,785	Sept. 11	781	217	24	1042
Candle-mold	J. Brélivet	280,566	July 3	274	75	24	49
Candle-mold gage	G. P. Vicken	282,133	July 31	2284	627	24	419

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Candle-molding machine	W. H. Hancy	272,876	Feb. 27	1651	462	23	751
Candles. Machine for manufacturing	A. A. Royeau	269,885	Jan. 2	71	22	23	16
Candlestick	C. B. Tuckfield	283,536	Aug. 21	1284	359	24	744
Candlestick. Miner's	J. Jones	270,316	Jan. 9	577	170	23	123
Candlestick. Miner's	J. C. Martin	275,057	Apr. 3	229	62	23	1265
Candlestick. Miner's	C. Pateneaude	289,702	Dec. 4	424	118	25	960
Candy-cooler	J. H. Roberts	289,659	Dec. 11	611	170	25	1000
Candy. Crystallizing-pan for rock-	C. Sauter	272,905	Feb. 27	1690	473	23	757
Candy-cutting machine	B. Parker	270,468	Jan. 9	780	228	23	102
Candy-heater	T. Burkhard	287,621	Oct. 30	2350	634	25	456
Candy-machine	W. L. Yancey	286,567	Oct. 9	984	264, 265	25	189
Candy. Manufacture of	C. W. Hellenbrand	272,252	Feb. 13	826	230	23	596
Candy. Manufacture of	L. T. Yoder	289,488	Dec. 4	146	40	25	912
Candy. Method of and machine for creaming	J. Kreischer	282,535	Aug. 7	72	21	24	513
Cane and camp-chair. Combined	S. N. McGaughey	280,843	July 10	631	177	24	117
Cane and fan combined	W. Verbeck	285,530	Sept. 25	1676	471	24	1215
Cane and pipe-case. Combined	J. P. Weaver	275,100	Apr. 3	290	80	23	1276
Cane. Electric	A. and A. Roovers	287,170	Oct. 23	1760	483	25	339
Cane-juice evaporator	F. Cook	280,293	June 26	2059	579	23	2499
Cane-juice evaporator and furnace	F. Cook	276,161	Apr. 24	1663	459, 460	23	1535
Cane. Machine for crushing and disintegrating sugar-	A. Ferron	279,235	June 12	773	213	23	2265
Cane-mill	C. D. Armstrong	273,432	Mar. 6	249	67	23	876
Cane-mill	D. L. Davis	273,472	Mar. 6	301	82	23	885
Cane-mill	A. J. Manny	282,339	July 31	2541	696	24	463
Cane-mill	W. S. Reeder	290,472	Dec. 18	1388	383	25	1147
Cane-mill	J. F. Wood	280,705	July 3	440	126	24	78
Cane mill. Sugar-	H. B. Stevens	270,502	Jan. 9	819	239	23	170
Cane stripper and header	L. H. Coburn and E. D. Thompson	287,240	Oct. 23	1857	508	25	355
Canister	C. M. Symonds	277,630	May 15	1379	372	23	1874
Canning apparatus	R. Wheeler	270,529	Jan. 9	864	251	23	179
Canning green corn	G. M. Baker	273,436	Mar. 6	252	.....	23	877
Canning machine. Vegetable and fruit	T. P. Fletcher	276,380	Apr. 24	1942	538	23	1583
Canning-press	L. Hamlin	275,906	Apr. 17	1352	372	23	1473
Cannon. Breech-loading	A. Dickerman	279,639	June 19	1279	355	23	2356
Cannon. Breech-loading	B. B. Hotchkiss	270,589	Jan. 16	938	271, 272	23	201
Cannon. Breech-loading	B. B. Hotchkiss	270,590	Jan. 16	942	272, 273	23	202
Cannon. Breech-loading	B. B. Hotchkiss	270,953	Jan. 23	1397	403	23	290
Cannon. Pneumatic	D. M. Mefford	279,965	June 26	1671	469	23	2430
Canoe	J. S. Stephenson	281,316	July 17	1225	339	24	229
Canopy for folding steamer-chairs	F. G. Johnson and J. H. Hayward	270,224	Jan. 9	474	139	23	103
Canopy-standard for vehicles	O. Unzicker	270,517	Jan. 9	849	247	23	176
Cant-hook	J. Carpenter	283,203	Aug. 14	875	244	24	663
Cant-hook	H., C. A., and J. H. Peavey. (Reissue.)	10,336	June 5	635	172	23	2231
Canteen	C. G. Jordon	273,097	Feb. 27	1921	538	23	797
Canteen	J. S. Pilger and G. H. Knight	275,697	Apr. 10	1079	295	23	1419
Cap	W. E. Wood	290,621	Dec. 18	1582	435	25	1180
Cap for firing explosive charges	G. Frennd	289,768	Dec. 4	490	136	25	971
Cap. Traveling-	H. H. Snow	271,529	Jan. 30	2120	610	23	422
Cape and hood. Combined	M. Seiler	276,720	May 1	245	62	23	1666
Capstan	E. E. Furney	290,029	Dec. 11	817	230, 231	25	1037
Capsule-machine	F. A. Hubel	290,583	Dec. 18	1534	422	25	1172
Capsule-machine	F. A. Hubel and H. H. Taylor. (Reissue.)	10,316	Apr. 17	1645	453	23	1524
Capsule-machine	C. F. Purdie	276,280	Apr. 24	1804	503	23	1560
Capsule-machine	C. F. Purdie	276,281	Apr. 24	1806	503	23	1560
Capsule-machine	C. F. Purdie	276,282	Apr. 24	1807	503	23	1560
Capsule-machine	C. F. Purdie	289,780	Dec. 4	504	140	25	974
Capsule-machine	H. H. Taylor	275,092	Apr. 3	279	76	23	1274
Capsule-machine	H. H. Taylor	276,094	Apr. 17	1576	434, 435	23	1512
Capsule-stripper	L. J. Wohnlich	270,716	Jan. 16	1105	316	23	231
Car	J. P. C. Foster	276,017	Apr. 17	1479	408	23	1496
Car and apparatus for transporting the same. Dumping-	J. J. Clarke	274,439	Mar. 20	1534	423	23	1114
Car and vessel signal	O. C. Knipe	271,581	Jan. 30	2179	627	23	432
Car-blind	A. Roelofs	275,712	Apr. 10	1098	300	23	1422
Car-braces. Gage for cutting	C. Mattice	284,035	Aug. 28	1917	536	24	870
Car-brake	W. H. Adams	271,206	Jan. 30	1707	495	23	349
Car-brake	H. Barratt	288,398	Nov. 13	778	210	25	650
Car-brake	B. Bennett	271,773	Feb. 6	225	63	23	479
Car-brake	J. Bettis	270,002	Jan. 2	210	61	23	43
Car-brake	G. M. Brill	286,773	Oct. 16	1251	338	25	242
Car-brake	E. R. Bristol	270,732	Jan. 16	1125	322	23	235
Car-brake	E. R. Bristol	281,445	July 17	1387	381	24	257
Car-brake	W. Brumble	289,970	Dec. 11	742	210	25	1024
Car-brake	E. M. Buckley and A. Jackson	273,345	Mar. 6	139	38	23	857
Car-brake	M. M. Clark	279,014	June 26	1607	452	23	2419
Car-brake	W. Clayton	289,982	Dec. 11	759	214	25	1027
Car-brake	J. M. De Witt	274,738	Mar. 27	1918	535	23	1188
Car-brake	E. Foakes	273,053	Feb. 27	1860	522, 523	23	787
Car-brake	P. R. Frey	277,476	May 15	1193	320	23	1844
Car-brake	C. S. Gerritson	270,300	Jan. 9	559	165	23	119
Car-brake	H. M. Glines	282,714	Aug. 7	298	84	24	551
Car-brake	A. G. Hamm and H. W. Eisenbise	272,241	Feb. 13	814	227	23	593
Car-brake	A. E. Harris	277,274	May 8	949	254, 255	23	1796

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car-brake	L. H. Hébert	284,201	Sept. 4	56	15, 16	24	914
Car-brake	G. Heidel	275,650	Apr. 10	1028	277	23	1410
Car-brake	T. Hersee	270,798	Jan. 16	1201	347	23	250
Car-brake	H. Heyd	289,534	Dec. 4	203	57	25	922
Car-brake	E. Katzenmayer	287,293	Oct. 23	1919	524	25	367
Car-brake	E. Katzenmayer	287,294	Oct. 23	1920	525	25	367
Car-brake	E. Katzenmayer	287,295	Oct. 23	1922	525	25	368
Car-brake	A. D. Kilborn and W. F. Smith	270,440	Jan. 9	747	219	23	155
Car-brake	A. A. Lambrigger	290,588	Dec. 18	1539	494	25	1173
Car-brake	C. Lederer and F. X. Marks	281,085	July 10	917	256	24	169
Car-brake	E. W. Lippincott	280,640	July 3	363	101	24	64
Car-brake	J. Lytle	277,587	May 15	1326	356	23	1865
Car-brake	J. F. Mallinckrodt	273,566	Mar. 6	426	114	23	907
Car-brake	J. F. Mallinckrodt	273,567	Mar. 6	427	114, 115	23	907
Car-brake	J. F. Mallinckrodt. (Reissue)	10,318	Apr. 24	2152	599	23	1619
Car-brake	A. H. Marden	270,962	Jan. 23	1410	406	23	292
Car-brake	H. McCalip and M. M. Nye	289,921	Dec. 11	688	192	25	1014
Car-brake	C. A. Millener	275,930	Apr. 17	1379	379	23	1478
Car-brake	J. D. Miller	282,748	Aug. 7	332	95	24	558
Car-brake	H. Mooers	274,015	Mar. 13	987	271	23	1011
Car-brake	J. O'Donnell	289,128	Nov. 27	1674	464	25	823
Car-brake	J. B. O'Donnell	275,513	Apr. 10	849	230	23	1379
Car-brake	H. S. Parmelee	273,762	Mar. 13	683	183	23	959
Car-brake	J. C. Patterson	271,111	Jan. 23	1584	456	23	320
Car-brake	J. C. Patterson	285,507	Sept. 25	1647	463	24	1209
Car-brake	J. H. Pitard	282,222	July 31	2393	658	24	438
Car-brake	G. F. Renouf	279,018	June 5	495	134	23	2207
Car-brake	J. W. Rice	280,244	June 26	2002	563	23	2489
Car-brake	A. C. Roland and A. Harper	274,144	Mar. 20	1155	318	23	1047
Car-brake	J. G. Schiller	282,672	Aug. 7	235	68	24	540
Car-brake	G. A. Small	289,314	Nov. 27	1889	526	25	865
Car-brake	C. W. Smith	278,616	May 29	2610	711	23	2104
Car-brake	O. Spiess	280,255	June 26	2014	566	23	2491
Car-brake	E. T. Stone	272,348	Feb. 13	941	261	23	615
Car-brake	B. L. Stowe	272,096	Feb. 13	637	173	23	562
Car-brake	B. L. Stowe	272,098	Feb. 13	643	174, 175	23	563
Car-brake	S. H. Terry	270,507	Jan. 9	896	240, 241	23	171
Car-brake	D. Torrey	276,931	May 1	512	133, 134	23	1714
Car-brake	D. Torrey	276,932	May 1	515	134	23	1715
Car-brake	D. Torrey	276,933	May 1	519	135	23	1715
Car-brake	D. Torrey	276,934	May 1	521	135	23	1716
Car-brake	D. Torrey	276,935	May 1	522	135, 136	23	1716
Car-brake	D. Torrey	276,936	May 1	525	136	23	1716
Car-brake	D. Torrey	276,937	May 1	526	136	23	1716
Car-brake	D. Torrey	276,938	May 1	528	137	23	1717
Car-brake	D. Torrey	287,889	Nov. 6	123	36	25	529
Car-brake	W. C. Travis	287,395	Oct. 23	2042	555	25	389
Car-brake	W. B. Turner	278,833	June 5	214	63, 64	23	2159
Car-brake	D. Van Der Linden	289,943	Dec. 11	707	200	25	1018
Car-brake	B. Van Wie and J. Taylor	289,474	Dec. 4	124	35	25	908
Car-brake	S. P. Weller, S. Wance, and G. Roesch	274,869	Mar. 27	2084	579	23	1216
Car-brake	C. D. Whiting	286,353	Oct. 9	737	195	25	142
Car-brake	W. P. Widdifield	277,436	May 8	1138	307	23	1828
Car-brake	W. A. Wilde	283,446	Aug. 21	1184	333	24	726
Car-brake	L. Wilkerson	290,379	Dec. 18	1252	351, 352	25	1123
Car brake and starter	C. E. Davison	270,286	Jan. 9	544	160, 161	23	116
Car brake and starter	A. S. Dickinson	283,219	Aug. 14	891	248, 249	24	666
Car brake and starter	E. B. West	279,999	June 26	1710	479	23	2437
Car-brake. Automatic	A. J. Berg	288,298	Nov. 13	629	172, 173	25	695
Car-brake. Automatic	E. M. Buckley and A. Jackson	273,344	Mar. 6	137	38	23	857
Car-brake. Automatic	J. David	279,136	June 12	668	184	23	2248
Car-brake. Automatic	S. S. Fuller and R. Salvadge	286,127	Oct. 2	424	116	25	79
Car-brake. Automatic	W. B. Guernsey	288,569	Nov. 13	978	269	25	696
Car-brake. Automatic	W. B. Guernsey	289,091	Nov. 27	1628	451	25	815
Car-brake. Automatic	G. Heidel	274,767	Mar. 27	1960	545	23	1195
Car-brake. Automatic	D. J. Macpherson	288,461	Nov. 13	854	231	25	664
Car-brake. Automatic	J. D. Meenan	288,719	Nov. 20	1182	323	25	796
Car-brake. Automatic	C. V. Rote	274,388	Mar. 20	1467	403	23	1109
Car-brake. Automatic	C. V. Rote	274,389	Mar. 20	1469	403, 404	23	1103
Car-brake. Automatic	G. T. Smallwood, Jr	284,766	Sept. 11	751	208, 209	24	1037
Car-brake. Automatic	B. F. Smith	274,043	Mar. 13	1014	278	23	1016
Car-brake. Automatic	B. L. Stowe	272,097	Feb. 13	639	173, 174	23	562
Car-brake. Automatic	D. Torrey	276,930	May 1	509	132, 133	23	1714
Car-brake. Automatic	W. B. Turner	278,834	June 5	216	64	23	2160
Car-brake. Automatic	W. B. Turner	278,835	June 5	219	65	23	2160
Car-brake. Automatic	C. Van Dusen	284,690	Sept. 11	653	184	24	1021
Car-brake. Automatic	H. S. Webster	290,723	Dec. 25	1724	475, 476	25	1212
Car brake-beam. Railway	W. Woodcock	270,871	Jan. 16	1286	370	23	265
Car-brake. Electric	D. J. Macpherson	273,565	Mar. 6	424	113, 114	23	907

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Car-brake. Electrical	A. S. Parsons	270,248	Jan. 9	499	147	23	108
Car-brake. Electro-magnetic	R. Kampfe	290,689	Dec. 25	1673	461	25	1202
Car-brake. Electro-magnetic	H. S. Park	274,023	Mar. 13	995	273	23	1012
Car-brake. Fluid-pressure	H. Barratt	283,368	Aug. 21	1095	308	24	709
Car-brake hanger	J. Rhoads	290,356	Dec. 18	1223	343	25	1118
Car-brake. Railway steam	F. B. Walker and J. Lauder	278,297	May 22	2205	605	23	2025
Car-brake rod	M. Van Tassel	271,381	Jan. 30	1931	558	23	388
Car-brake shoe	H. A. Banning	274,896	Apr. 3	7	2	23	1228
Car-brakes. Automatic take-up for	D. Torrey	276,929	May 1	508	132	23	1714
Car-buffer	C. Browning	273,665	Mar. 6	543	145	23	927
Car-buffer	A. Gallinant	278,328	May 29	2256	618	23	2042
Car-buffer	J. T. Schaffer	278,606	May 29	2593	708	23	2101
Car. Cable-railway	C. W. Rasmusen	289,139	Nov. 27	1686	468	25	825
Car. Cinder-	J. L. Boyer	280,903	July 10	695	195, 196	24	129
Car. Cinder-	F. W. Gordon	274,587	Mar. 27	1752	486	23	1158
Car. Cinder-	W. Kelly	274,786	Mar. 27	1982	551	23	1199
Car. Coal-	D. Hoit	272,550	Feb. 20	1211	339	23	667
Car. Coal-	J. A. Millholland	282,751	Aug. 7	335	95, 96	24	559
Car. Construction-	L. K. Jewett	279,950	June 26	1654	464	23	2427
Car-coupling	W. Adams	270,171	Jan. 2	405	118	23	82
Car-coupling	W. L. Albright	271,674	Feb. 6	106	28	23	458
Car-coupling	J. W. Alexander	272,339	Feb. 20	1025	287	23	635
Car-coupling	M. R. Allen	288,754	Nov. 20	1221	334	25	734
Car-coupling	T. H. Ambrose	279,307	June 12	859	238	23	2280
Car-coupling	N. Ambuehl	271,394	Jan. 30	1944	562	23	391
Car-coupling	I. Andrews	273,700	Mar. 13	593	159	23	943
Car-coupling	C. E. Appell	279,312	June 12	866	241	23	2281
Car-coupling	S. B. Archer	283,845	Aug. 28	1664	470	24	825
Car-coupling	A. H. Armstrong	274,893	Apr. 3	4	1	23	1227
Car-coupling	F. Attock	287,082	Oct. 23	1649	453	25	318
Car-coupling	A. D. and C. M. Atwood	284,797	Sept. 11	791	220	24	1044
Car-coupling	A. W. Avery	283,743	Aug. 28	1541	436	24	804
Car-coupling	W. C. Barber	273,438	Mar. 6	255	69	23	877
Car-coupling	N. Barr	277,828	May 15	1603	438	23	1915
Car-coupling	J. Barrett	279,317	June 12	875	243	23	2282
Car-coupling	J. S. Bayley	278,764	June 5	107	31	23	2142
Car-coupling	G. W. Bedbury	269,999	Jan. 2	206	59	23	43
Car-coupling	W. K. Berry	286,578	Oct. 16	1002	271	25	198
Car-coupling	W. B. Bessey	285,787	Oct. 2	9	3	25	4
Car-coupling	J. N. Best	279,121	June 12	650	177, 178	23	2244
Car-coupling	R. Bigney	275,880	Apr. 17	1326	365	23	1469
Car-coupling	R. Bigney	286,992	Oct. 23	1534	423	25	296
Car-coupling	J. Billups	270,374	Jan. 9	658	193	23	138
Car-coupling	B. Bird	273,339	Mar. 6	128	36	23	855
Car-coupling	K. S. Blanchard	285,789	Oct. 2	11	3	25	4
Car-coupling	L. I. Bodenhamer	279,217	June 12	751	207	23	2262
Car-coupling	L. I. Bodenhamer and W. E. Ashley	289,611	Dec. 4	298	83	25	940
Car-coupling	H. C. Bradley	279,321	June 12	884	245	23	2283
Car-coupling	E. R. Brown	277,674	May 15	1428	385	23	1883
Car-coupling	J. Brown	287,415	Oct. 30	2070	563	25	402
Car-coupling	W. V. Brown and T. S. Poole	287,619	Oct. 30	2348	633	25	455
Car-coupling	C. Browning. (Reissue)	10,291	Feb. 27	2098	588	23	828
Car-coupling	C. Browning	273,343	Mar. 6	134	38	23	856
Car-coupling	C. Browning	273,664	Mar. 6	539	145	23	926
Car-coupling	W. Brumble	285,221	Sept. 18	1307	360	24	1142
Car-coupling	W. I. Byard	282,438	July 31	2672	732	24	487
Car-coupling	T. F. Byron	277,677	May 15	1431	386	23	1883
Car-coupling	B. Cade	272,643	Feb. 20	1339	376	23	690
Car-coupling	G. A. Cage	279,332	June 12	903	252	23	2286
Car-coupling	E. D. Cain	273,949	Mar. 13	911	249	23	997
Car-coupling	N. Campbell	275,138	Apr. 3	341	94	23	1285
Car-coupling	C. E. Carr	290,317	Dec. 18	1174	329	25	1109
Car-coupling	E. S. Carter	270,014	Jan. 2	222	64	23	46
Car-coupling	E. S. Carter	273,950	Mar. 13	912	249	23	997
Car-coupling	W. Carter and H. T. Woods	286,175	Oct. 9	484	134	25	101
Car-coupling	A. W. Case	273,464	Mar. 6	288	79	23	883
Car-coupling	A. W. Case	278,880	June 5	281	81	23	2171
Car-coupling	W. H. Castle	280,449	July 3	139	37, 38	24	26
Car-coupling	S. M. Cate and C. O. Smith	279,911	June 26	1601	449	23	2418
Car-coupling	G. L. Chamberlin	274,106	Mar. 20	1109	306	23	1039
Car-coupling	J. P. Champion	285,228	Sept. 18	1315	371	24	1144
Car-coupling	A. J. Chapel	289,617	Dec. 4	304	85	25	941
Car-coupling	N. J. Cheeney	281,974	July 24	2062	565	24	378
Car-coupling	C. Clarke	286,999	Oct 23	1541	425	25	297
Car-coupling	G. A. Cline	270,390	Jan. 9	682	202	23	142
Car-coupling	B. W. Cloak	274,908	Apr. 3	20	6	23	1230
Car-coupling	D. W. Coburn	275,150	Apr. 3	352	97	23	1287
Car-coupling	J. Cochran, Jr	289,228	Nov. 27	1792	496	25	845
Car-coupling	J. W. Cole	275,754	Apr. 10	1158	318	23	1432
Car-coupling	G. S. Conover	273,818	Mar. 13	753	204	23	971
Car-coupling	D. P. Cory	289,985	Dec. 11	762	215	25	1028
Car-coupling	G. and M. J. Costolo and A. Johnson	288,925	Nov. 20	1419	391	25	772
Car-coupling	N. P. Cowell	278,403	May 29	2353	643	23	2059
Car-coupling	W. Crandell	271,685	Feb. 6	121	33	23	461
Car-coupling	G. W. Cross	286,271	Oct. 9	601	165	25	120
Car-coupling	F. B. Cunningham	288,928	Nov. 20	1422	392	25	772
Car-coupling	C. B. Cutler	274,569	Mar. 27	1727	480	23	1153
Car-coupling	O. S. Dale and A. Barnes	276,005	Apr. 17	1464	404	23	1494
Car-coupling	J. T. Dalton	289,898	Dec. 11	659	184	25	1009
Car-coupling	J. B. Davis	280,016	June 26	1734	486	23	2441
Car-coupling	L. Davis, Jr	271,609	Feb. 6	32	8	23	446
Car-coupling	L. Davis, Jr	277,466	May 15	1182	317	23	1843

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car-coupling	W. De Cew	274,180	Mar. 20	1202	331	23	1056
Car-coupling	C. C. Delano	277,242	May 8	913	245	23	1789
Car-coupling	J. H. Depew	279,229	June 12	766	212	23	2264
Car-coupling	J. E. Dickerson	276,229	Apr. 24	1743	483	23	1549
Car-coupling	W. H. Diehl	273,475	Mar. 6	304	82	23	895
Car-coupling	G. P. Dougherty	273,481	Mar. 6	310	84	23	896
Car-coupling	M. J. Dougherty	290,005	Dec. 11	791	222	25	1033
Car-coupling	R. H. Dowling	281,983	July 24	2071	568	24	379
Car-coupling	J. B. Draper	287,110	Oct. 23	1687	462	25	326
Car-coupling	W. E. Drew	277,690	May 15	1446	390	23	1486
Car-coupling	J. M. Dulaney and T. Owens	271,045	Jan. 23	1504	434	23	307
Car-coupling	F. L. Eager	270,032	Jan. 2	241	70	23	50
Car-coupling	F. L. Eager	282,616	Aug. 7	170	51	24	530
Car-coupling	C. C. Eber	281,251	July 17	1144	316	24	215
Car-coupling	J. Elder	270,708	Jan. 16	1168	334	23	243
Car-coupling	A. C. Ellis	285,473	Sept. 25	1608	452	24	1302
Car-coupling	C. B. Emerson	289,399	Dec. 4	33	10	25	893
Car-coupling	W. Emmett	278,693	June 5	22	6.7	23	2124
Car-coupling	E. C. Eyl	275,177	Apr. 3	391	105	23	1292
Car-coupling	C. M. Ezell	273,045	Feb. 27	1851	518	23	786
Car-coupling	J. Fashing	276,168	Apr. 24	1672	461	23	1536
Car-coupling	C. W. Ferguson	281,479	July 17	1432	391, 392	24	264
Car-coupling	S. J. Filson	274,749	Mar. 27	1936	539	23	1191
Car-coupling	A. Fischer	275,814	Apr. 17	1244	342	23	1454
Car-coupling	B. A. Fisher	285,247	Sept. 18	1337	376	24	1148
Car-coupling	W. L. Fisher	283,991	Aug. 28	1841	519	24	858
Car-coupling	W. W. Fitch	277,698	May 15	1453	392	23	1488
Car-coupling	J. H. Flood and H. F. Knoder	288,789	Nov. 20	1263	346	25	742
Car-coupling	C. J. Fortson	287,270	Oct. 23	1886	516	25	361
Car-coupling	J. C. Fowler	277,701	May 15	1456	393	23	1488
Car-coupling	H. Fraser	270,215	Jan. 9	465	135	23	102
Car-coupling	W. F. Freeman	278,789	June 5	154	45	23	2148
Car-coupling	A. Fulton	277,837	May 15	1616	441	23	1917
Car-coupling	J. P. Gaines	270,412	Jan. 9	706	209	23	148
Car-coupling	E. C. Galentine	279,485	June 12	1095	302	23	2316
Car-coupling	J. B. Garrett	284,624	Sept. 11	568	161	24	1006
Car-coupling	T. Gates	287,759	Oct. 30	2530	682	25	490
Car-coupling	A. J. George and T. B. Turpin	290,569	Dec. 18	1522	419	25	1170
Car-coupling	J. Goettel and E. T. Slayton	276,925	Apr. 17	1492	410	23	1498
Car-coupling	E. N. Gifford	287,017	Oct. 23	1568	432, 433	25	302
Car-coupling	F. Gilbert	285,253	Sept. 18	1342	378	24	1149
Car-coupling	W. J. Gossett	278,235	May 22	2110	581	23	2009
Car-coupling	E. S. Graver	272,680	Feb. 20	1380	388	23	696
Car-coupling	R. E. Gray	289,407	Dec. 4	41	12	25	894
Car-coupling	A. B. Groff and A. E. Strayer	289,529	Dec. 4	197	55	25	921
Car-coupling	H. Gross	276,681	May 1	189	49	23	1656
Car-coupling	D. W. Haines and A. D. Hankerson	270,057	Jan. 2	272	79	23	56
Car-coupling	N. Halsted	272,430	Feb. 20	1067	301	23	641
Car-coupling	J. E. L. Harbold	286,198	Oct. 9	512	141	25	105
Car-coupling	T. Harding	274,764	Mar. 27	1955	544	23	1195
Car-coupling	J. H. Harrod	288,999	Nov. 27	1513	418, 419	25	795
Car-coupling	B. W. Harry and J. C. Kieffer	277,275	May 8	950	255	23	1796
Car-coupling	S. J. Harry	273,357	Mar. 6	155	44	23	861
Car-coupling	J. V. Hartman and A. Wetzel, Jr.	288,797	Nov. 20	1271	348	25	743
Car-coupling	C. C. Haskin	288,800	Nov. 20	1274	349	25	744
Car-coupling	L. Hatfield	272,135	Feb. 13	691	188, 189	23	571
Car-coupling	C. L. Hathaway	285,616	Sept. 25	1780	506	24	1235
Car-coupling	H. E. Hawk	278,334	May 29	2270	621	23	2044
Car-coupling	H. E. Hawk	280,743	July 3	491	139	24	87
Car-coupling	W. A. and C. S. Hawkins	272,435	Feb. 20	1072	302	23	642
Car-coupling	W. H. Heaverin	279,752	June 19	1406	393	23	2378
Car-coupling	L. G. Hedlund	286,001	Oct. 2	272	76	25	51
Car-coupling	J. Heffner and W. Kelly	277,723	May 15	1480	400	23	1892
Car-coupling	C. Hendricks	285,262	Sept. 18	1354	382	24	1152
Car-coupling	L. Herrman	285,813	Oct. 2	39	13	25	9
Car-coupling	L. Herrman and J. B. Lavin	278,014	May 22	1837	501	23	1961
Car-coupling	E. M. Hobbs	287,934	Nov. 6	182	52	25	539
Car-coupling	I. Holland	289,002	Nov. 27	1517	420	25	796
Car-coupling	J. W. Hollis	269,857	Jan. 2	45	14	23	11
Car-coupling	L. A. Houghtaling	271,850	Feb. 6	321	89	23	497
Car-coupling	A. B. House	284,205	Sept. 4	62	17	24	915
Car-coupling	T. B. Howe	273,736	Mar. 13	641	171	23	952
Car-coupling	I. N. Hoyt	281,271	July 17	1165	322	24	219
Car-coupling	R. R. Hunt	282,896	Aug. 7	505	142	24	590
Car-coupling	M. Hunter	290,330	Dec. 18	1193	334	25	1113
Car-coupling	C. A. Huth	279,763	June 19	1419	396	23	2380
Car-coupling	E. Ingram	286,444	Oct. 9	833	226	25	102
Car-coupling	M. Jacobs	276,183	Apr. 24	1688	466	23	1539
Car-coupling	T. H. James	287,130	Oct. 23	1708	468	25	330
Car-coupling	C. P. Johnson and S. T. Walkley	275,662	Apr. 10	1041	281	23	1412
Car-coupling	C. P. Johnson and S. T. Walkley	275,663	Apr. 10	1042	282	23	1412
Car-coupling	A. Johnston	288,816	Nov. 20	1292	354	25	747
Car-coupling	H. L. Johnstone	286,307	Oct. 9	668	178	25	131
Car-coupling	S. R. Jones	282,732	Aug. 7	316	90	24	555
Car-coupling	D. P. Kahl	290,060	Dec. 11	853	242	25	1044
Car-coupling	I. I. Keely	276,141	Apr. 17	1636	451	23	1523
Car-coupling	H. M. Keith	284,436	Sept. 4	337	94	24	960
Car-coupling	H. Keller	273,104	Feb. 27	1930	541	23	799
Car-coupling	E. Kirk	282,734	Aug. 7	318	91	24	556
Car-coupling	J. R. Kirksey	290,243	Dec. 18	1077	301	25	1093

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car-coupling	I. Kling	285,758	Sept. 25	1960	555	24	1265
Car-coupling	G. W. Knapp	280,381	July 3	51	14	24	11
Car-coupling	H. Kroblen	272,840	Feb. 20	1601	448	23	735
Car-coupling	D. Kunkel, Sr	276,977	May 1	577	151	23	1725
Car-coupling	J. P. Lancaster	271,065	Jan. 23	1559	449	23	316
Car-coupling	C. J. Langenbach	285,042	Sept. 18	1096	306	24	1106
Car-coupling	F. G. Lawrence	272,712	Feb. 20	1420	398	23	703
Car-coupling	J. Learmonth	282,910	Aug. 7	518	145	24	592
Car-coupling	A. Lehmann	288,074	Nov. 6	352	98	25	567
Car-coupling	A. Lenhart	286,207	Oct. 9	522	144	25	107
Car-coupling	F. H. Leonard and S. D. Snow	285,419	Sept. 25	1549	436	24	1191
Car-coupling	G. Lighthiser	284,644	Sept. 11	591	167	24	1010
Car-coupling	T. D. Lobb	285,634	Sept. 25	1801	513	24	1239
Car-coupling	A. C. Long	281,535	July 17	1493	410	24	275
Car-coupling	J. C. Look	272,386	Feb. 13	1004	281	23	625
Car-coupling	J. C. Look	277,300	May 8	983	264	23	1801
Car-coupling	W. H. Lucan	279,654	June 19	1297	360	23	2359
Car-coupling	C. Luther	287,385	Oct. 23	2028	551	25	387
Car-coupling	E. B. Magnus	272,285	Feb. 13	868	243	23	603
Car-coupling	A. B. Mahon	288,083	Nov. 6	364	101	25	570
Car-coupling	C. E. Mark	275,054	Apr. 3	222	61	23	1264
Car-coupling	C. E. Mark	278,573	May 29	2556	697	23	2095
Car-coupling	G. Maulick	281,094	July 10	927	259	24	171
Car-coupling	D. C. McCallum	279,658	June 19	1303	362	23	2360
Car-coupling	W. McConway	281,901	July 24	1976	541	24	363
Car-coupling	M. E. McDonald	286,622	Oct. 16	1063	286	25	209
Car-coupling	J. S. McGraw	272,294	Feb. 13	875	245	23	605
Car-coupling	W. J. McLean	277,915	May 22	1711	467	23	1940
Car-coupling	J. K. McLeod	289,681	Dec. 4	382	110	25	954
Car-coupling	C. W. McMillen	273,574	Mar. 6	435	117	23	909
Car-coupling	J. E. McMurtrey, I. Williams, and F. E. Okie.	287,455	Oct. 30	2119	575	25	411
Car-coupling	G. E. Medley	275,839	Apr. 17	1274	350	23	1459
Car-coupling	I. J. Merrick	285,913	Oct. 2	170	48	25	33
Car-coupling	P. E. Merrihew	274,511	Mar. 27	1658	461	23	1141
Car-coupling	P. E. Merrihew, M. C. and E. F. Poland.	290,086	Dec. 11	885	251	25	1050
Car-coupling	G. and W. H. Merrill	272,299	Feb. 13	880	246	23	605
Car-coupling	M. H. Merrill	290,452	Dec. 18	1361	376	25	1142
Car-coupling	B. F. Metz	271,501	Jan. 30	2087	600	23	416
Car-coupling	F. Miller	281,779	July 24	1892	497 498	24	336
Car-coupling	J. D. Miller	274,808	Mar. 27	2005	558	23	1203
Car-coupling	S. H. Milligan	271,696	Feb. 6	371	103	23	506
Car-coupling	J. C. Mitchell	285,145	Sept. 18	1223	344	24	1127
Car-coupling	H. Moon	279,416	June 12	1014	281 282	23	2304
Car-coupling	T. R. Morgan, G. Ruf, and D. Davis	286,054	Oct. 2	337	93	25	62
Car-coupling	R. T. Morrison, Jr	287,702	Oct. 30	2453	660	25	476
Car-coupling	O. P. Mossgrove	280,502	July 3	206	54	24	37
Car-coupling	S. P. Moulton	277,918	May 22	1713	468	23	1941
Car-coupling	A. Muller	287,771	Oct. 30	2550	686	25	494
Car-coupling	C. F. A. Neitzel	274,645	Mar. 27	1816	504	23	1170
Car-coupling	W. W. Newcomb	274,960	Apr. 3	102	28	23	1242
Car-coupling	W. B. Nichols	278,728	June 5	67	21	23	2136
Car-coupling	C. P. Nicolson	277,051	May 8	681	178	23	1749
Car-coupling	C. Niekrenz	287,849	Nov. 6	70	21	25	520
Car-coupling	G. W. Norton	284,974	Sept. 11	995	281	24	1082
Car-coupling	W. Nunamaker	277,152	May 8	813	214	23	1772
Car-coupling	T. B. Nutting	277,773	May 15	1545	420	23	1905
Car-coupling	J. K. Nyce and I. C. Hunsicker	289,357	Nov. 27	1947	541	25	875
Car-coupling	J. O'Connor	282,009	July 24	2099	576	24	384
Car-coupling	J. J. O'Connor and R. M. White	271,106	Jan. 23	1580	454	23	320
Car-coupling	T. C. O'Donovan	290,097	Dec. 11	893	254	25	1051
Car-coupling	A. T. Odell and J. H. Cordell	289,852	Dec. 11	603	168	25	999
Car-coupling	A. K. Owen	270,103	Jan. 2	317	93	23	64
Car-coupling	L. W. and D. Page	288,258	Nov. 13	583	161	25	618
Car-coupling	H. A. Palmer	286,480	Oct. 9	871	236	25	169
Car-coupling	P. F. Panabaker	280,949	July 10	760	211	24	139
Car-coupling	A. Park	288,105	Nov. 6	391	110	25	575
Car-coupling	R. T. Payne	286,061	Oct. 2	346	96, 97	25	64
Car-coupling	J. G. Peace and E. B. Sankey	284,886	Sept. 11	889	250	24	1063
Car-coupling	C. H. Pelton	269,956	Jan. 2	159	46	23	34
Car-coupling	M. Peters, Jr	270,694	Jan. 16	1079	310	23	226
Car-coupling	J. F. E. Phillips	286,635	Oct. 16	1078	290	25	211
Car-coupling	R. Powell	283,920	Aug. 28	1750	494	24	841
Car-coupling	J. F. Pryor	279,800	June 19	1463	410	23	2388
Car-coupling	J. J. Pursley	271,655	Feb. 6	83	23	23	455
Car-coupling	M. Ralph, Sr	284,896	Sept. 11	898	253	24	1064
Car-coupling	F. A. Ray	275,943	Apr. 17	1394	384	23	1481
Car-coupling	J. V. Reams and A. C. Majors	287,860	Nov. 6	81	24, 25	25	522
Car-coupling	A. J. Redman	284,898	Sept. 11	900	254	24	1065
Car-coupling	J. Rhule	278,598	May 29	2583	705	23	2100
Car-coupling	A. Rice	271,272	Jan. 30	1782	518	23	392
Car-coupling	J. F. Rice	285,680	Sept. 25	1850	529	24	1248
Car-coupling	F. H. Richards	284,902	Sept. 11	904	255 256	24	1066
Car-coupling	W. N. Richards	272,979	Feb. 27	1773	496	23	771
Car-coupling	E. M. Richardson	269,883	Jan. 2	69	21	23	16
Car-coupling	J. Rigby and S. S. McHugh	286,848	Oct. 16	1347	369	25	259
Car-coupling	J. J. Roberts	271,990	Feb. 6	498	134	23	526
Car-coupling	A. W. Robinson	280,516	July 3	218	58	24	39
Car-coupling	F. H. Rudd	289,782	Dec. 4	507	140	25	974
Car-coupling	D. J. Rumbaugh and J. S. Brandt	273,896	Mar. 13	846	229	23	987

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car-coupling	W. D. Sandwich	275,948	Apr. 17	1398	385	23	1482
Car-coupling	C. H. Schaaff	278,605	May 29	2591	707 708	23	2101
Car-coupling	A. T. Schultz	273,167	Feb. 27	2004	564	23	812
Car-coupling	S. H. Scott and G. J. Talmage	279,281	June 12	826	229	23	2275
Car-coupling	C. P. Searles	286,080	Oct. 2	371	103	25	68
Car-coupling	H. K. Sebring	275,717	Apr. 10	1105	302	23	1423
Car-coupling	J. W. Sheaffer	288,502	Nov. 13	905	247	25	673
Car-coupling	H. L. Shireman	290,276	Dec. 18	1122	315	25	1100
Car-coupling	G. C. Short and W. L. Roe	286,492	Oct. 9	885	239	25	171
Car-coupling	J. Showalter	273,903	Mar. 13	853	231	23	988
Car-coupling	V. Shreve	288,504	Nov. 13	907	248	25	673
Car-coupling	J. H. Simpson and J. T. Wilson	275,720	Apr. 10	1108	303 304	23	1423
Car-coupling	J. H. Simpson and J. T. Wilson	275,721	Apr. 10	1110	304	23	1424
Car-coupling	J. G. Slater	275,428	Apr. 10	745	198	23	1362
Car-coupling	F. Sloat	281,035	July 24	2014	551	24	370
Car-coupling	E. S. Smith	277,363	May 8	1056	284	23	1814
Car-coupling	J. W. Snyder	288,270	Nov. 13	602	164	25	630
Car-coupling	D. E. Southwick	280,254	June 26	2013	566	23	2491
Car-coupling	T. Sparks	281,155	July 10	1003	281	24	184
Car-coupling	L. and G. P. Stebbins	273,907	Mar. 13	858	233	23	989
Car-coupling	M. L. Sterling	285,701	Sept. 25	1878	535	24	1253
Car-coupling	A. A. Stetson	282,397	July 31	2609	717	24	476
Car-coupling	F. Stitzel	283,681	Aug. 21	1459	411	24	777
Car-coupling	A. Story	275,870	Apr. 17	1313	362	23	1466
Car-coupling	I. L. Stover	279,201	June 12	737	202	23	2259
Car-coupling	M. E. Swart	290,656	Dec. 18	1624	446	25	1187
Car-coupling	B. Taylor	289,172	Nov. 27	1721	480	25	832
Car-coupling	B. F. Teal	279,614	June 19	1248	346	23	2350
Car-coupling	A. T. Teall, Jr.	288,600	Nov. 13	1022	280 281	25	695
Car-coupling	J. M. Terry	275,438	Apr. 10	757	209	23	1363
Car-coupling	W. S. Thayer	286,745	Oct. 16	1218	329	25	236
Car-coupling	J. Thigpen	277,379	May 8	1070	288	23	1817
Car-coupling	R. G. Thompson	274,847	Mar. 27	2046	570	23	1211
Car-coupling	W. H. Thurmond	289,729	Dec. 4	451	126	25	965
Car-coupling	E. H. C. Tompkins	287,483	Oct. 30	2155	586	25	419
Car-coupling	C. W. Townsend	284,260	Sept. 4	129	36	24	926
Car-coupling	J. G. Trenear	271,951	Feb. 6	444	121	23	519
Car-coupling	S. D. Trennolm	285,181	Sept. 18	1264	355	24	1134
Car-coupling	C. B. and J. Tucker	271,379	Jan. 30	1928	557	23	387
Car-coupling	S. G. A. Urquhart	279,675	June 19	1327	368 369	23	2363
Car-coupling	C. Van Deusen	278,838	June 5	225	66	23	2162
Car-coupling	W. T. Van Dorn	271,553	Jan. 30	2148	618	23	427
Car-coupling	J. D. Vance	279,845	June 19	1518	425	23	2397
Car-coupling	G. W. Vunk	274,422	Mar. 20	1514	416	23	1110
Car-coupling	E. F. Walker	287,070	Oct. 23	1635	449	25	316
Car-coupling	W. R. Wallace	277,635	May 15	1382	373	23	1875
Car-coupling	J. H. Ward	273,326	Mar. 6	112	32	23	853
Car-coupling	J. S. Waugh	288,527	Nov. 13	933	255	25	677
Car-coupling	A. S. Way and J. W. Lutz	270,865	Jan. 16	1277	396	23	264
Car-coupling	E. Webber	270,523	Jan. 9	855	249	23	177
Car-coupling	C. Weik, Jr.	279,059	June 5	549	151	23	2217
Car-coupling	J. W. White	284,108	Aug. 28	2006	558	24	885
Car-coupling	W. H. White and H. F. Ruddell	287,749	Oct. 30	2517	678	25	487
Car-coupling	L. P. Whiting	276,905	Apr. 24	1716	475	23	1544
Car-coupling	B. F. Whitney	275,306	Apr. 3	539	147	23	1318
Car-coupling	J. A. Whittemore	289,049	Nov. 27	1581	436	25	806
Car-coupling	G. W. Whittington	276,110	Apr. 17	1597	441	23	1516
Car-coupling	L. Wilkerson	271,179	Jan. 23	1672	481	23	334
Car-coupling	J. L. Williams	284,937	Sept. 11	953	267	24	1074
Car-coupling	J. Wood	279,303	June 12	856	237	23	2279
Car-coupling	F. Woodward	284,789	Sept. 11	785	218	24	1042
Car-coupling	J. T. Wright	272,009	Feb. 6	519	139	23	530
Car-coupling	N. R. Zimmerman	277,923	May 15	1597	437	23	1914
Car-coupling	C. H. Zimmerman	285,722	Sept. 25	1911	542	24	1258
Car coupling and buffer	C. C. and C. Balderston	287,084	Oct. 23	1652	453	25	319
Car-coupling. Automatic	M. Kennedy	285,906	Oct. 2	163	46, 47	25	32
Car-coupling link	J. Bridge	275,460	Apr. 10	781	209	23	1368
Car-coupling link	J. W. Purslow	273,148	Feb. 27	1982	557	23	809
Car-coupling link	F. Sweetland	278,626	May 29	2624	716	23	2107
Car coupling-link. Railway	A. Hackett	289,530	Dec. 4	197	56	25	921
Car-coupling pins. Manufacturing	J. While	273,417	Mar. 6	228	62	23	873
Car deflector. Railway passenger	A. W. Brinkerhoff	286,381	Oct. 9	756	204	25	148
Car-door	C. W. Coller	274,107	Mar. 20	1111	306	23	1039
Car-door	C. C. Kilts	273,290	Mar. 6	55	16	23	844
Car-door	A. B. King	271,337	Jan. 30	1869	542	23	377
Car-door	J. L. Wagner and J. Seath	280,537	July 3	242	65	24	43
Car-door	J. L. Wagner and J. Seath	288,190	Nov. 6	488	136	25	592
Car-door	A. W. Zimmerman	281,170	July 10	1021	286	24	187
Car door and attachment. Grain	C. C. Duffy	278,895	June 5	298	86	23	2174
Car-door and fastening	W. P. Scnour	278,611	May 29	2599	709	23	2103
Car-door catch. Grain	D. F. Van Liew	278,377	May 29	2323	635	23	2054
Car-door fastener	S. L. Denney	281,246	July 17	1135	312	24	214
Car-door fastener	A. W. Zimmerman	282,598	Aug. 7	149	45	24	527
Car-door fastening	R. H, Briggs and J. H. Dougherty	281,174	July 10	1026	287	24	188
Car-door fastening	E. J. Brooks	270,874	Jan. 16	1288	371 372	23	266
Car-door fastening	J. B. Calkins	271,415	Jan. 30	1971	569	23	396
Car-door fastening	W. P. Jackson	276,592	May 1	63	18	23	1638
Car-door fastening	J. Scanlan	269,963	Jan. 2	168	49	23	35
Car-door fastening	W. Scharnweber	270,252	Jan. 9	504	148	23	109

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Car-door fastening. Freight	W. J. Carey	278,092	May 22	1923	528	23	1977
Car door. Freight	B. F. Teal	276,644	May 1	124	33	23	1648
Car door. Freight	H. N. Frentress	288,565	Nov. 13	974	268	25	685
Car door. Grain	W. J. Arndt	271,677	Feb. 6	109	29	23	459
Car door. Grain	B. H. Gatton	289,247	Nov. 27	1812	501	25	849
Car door. Grain	F. L. Kirkbride	279,255	June 12	796	220	23	2269
Car door. Grain	D.-D. Miles	272,455	Feb. 20	1096	309	23	646
Car door. Grain	F. Pond	289,445	Dec. 4	86	24, 25	25	902
Car door. Grain	B. F. Teal	280,688	July 3	420	118	24	75
Car door. Grain	J. J. Treat	280,972	July 10	786	218	24	144
Car door. Grain	W. S. Voorhis and G. H. Houser	275,735	Apr. 10	1125	308	23	1426
Car door. Grain	E. M. Wilcox	275,448	Apr. 10	768	204	23	1365
Car-door hanger. Sliding	E. Prescott	275,852	Apr. 17	1289	354	23	1461
Car-door lock	J. H. Fisher	279,732	June 19	1388	387	23	2374
Car-door lock	J. H. Fisher	288,988	Nov. 27	1502	416	25	794
Car-door lock. Freight	H. G. H. Reed	276,283	Apr. 24	1808	504	23	1560
Car-door mechanism. Grain	J. A. Hagan	285,258	Sept. 18	1349	380	24	1151
Car-door mechanism. Street	F. B. Brownell	286,257	Oct. 9	585	160, 161	25	117
Car-door. Sliding	E. Y. Moore	286,470	Oct. 9	860	233	25	167
Car-door track	W. Scarffe	283,151	Aug. 14	805	225	24	649
Car doors. Weather and fire strip for box	G. B. Nichols	279,420	June 12	1018	283	23	2304
Car draft attachment. Street	J. P. Messer	279,784	June 19	1441	404	23	2384
Car draw-bar	C. Alkin	271,585	Feb. 6	2	1	23	441
Car draw-bar	H. Burkhardt	271,216	Jan. 30	1717	497	23	351
Car draw-bar	H. Rust	287,966	Nov. 6	224	63	25	546
Car draw-bar. Railway	S. P. Tallman	280,414	July 3	92	25	24	19
Car draw-gear. Railway	G. J. Johnson and E. H. Thomas	290,241	Dec. 18	1076	301	25	1093
Car-dumper	T. B. Wire	280,430	July 3	115	31	24	22
Car. Dumping	A. Beckert and W. E. Ludlow	288,760	Nov. 20	1228	335, 336	25	735
Car. Dumping	N. W. Condict, Jr	275,357	Apr. 10	640	171	23	1344
Car. Dumping	C. C. Duffy	279,361	June 12	938	262	23	2292
Car. Dumping	W. Fallon	287,650	Oct. 30	2383	643	25	462
Car. Dumping	L. Fitzsimmons	273,051	Feb. 27	1857	521	23	787
Car. Dumping	J. H. Gartside	280,735	July 3	480	136	24	85
Car. Dumping	J. T. Goodwin	287,663	Oct. 30	2398	646	25	466
Car. Dumping	L. Hetfield	280,621	July 3	339	95	24	60
Car. Dumping	S. D. King	278,343	May 29	2282	624	23	2047
Car. Dumping	C. La Cosse	274,890	Mar. 27	2108	586	23	1220
Car. Dumping	C. Rohne and J. Moenke	277,350	May 8	1042	279, 280	23	1812
Car. Dumping	J. Smith and J. P. Rhodes	275,532	Apr. 10	873	236	23	1383
Car. Dumping	M. Van Wormer	284,691	Sept. 11	655	184, 185	24	1021
Car. Dumping	G. J. Wheelock	290,298	Dec. 18	1147	322	25	1104
Car dust-guard. Railway	W. H. Pettiner and J. L. Colcord	273,595	Mar. 6	459	123	23	913
Car electrical-circuit coupler. Railway	P. C. Ricketts	281,730	July 24	1755	476	24	323
Car fender. Railway	R. T. Bishop	276,999	May 8	611	160	23	1737
Car for elevated railways	E. S. Watson	288,193	Nov. 6	493	137	25	593
Car for locomotives. Electrical pilot	S. H. Knapp and A. E. Adams	280,046	June 26	1776	498	23	2448
Car for railway-trains. Signal	J. Schofield	280,523	July 3	226	60	24	40
Car. Freight	A. Goodrich	288,792	Nov. 20	1267	347	25	743
Car. Freight	N. H. Greene	283,340	Aug. 14	1043	293	24	695
Car. Freight	A. Grundy	286,197	Oct. 9	512	141	25	105
Car gate. Railway	W. W. Rosenfield	288,494	Nov. 13	896	244	25	671
Car-guard	J. Craig	285,975	Oct. 2	245	69, 70	25	47
Car guard-gate	A. Du Bois	289,839	Jan. 2	25	8	23	7
Car guard. Street	R. J. Good	277,564	May 15	1300	349	23	1861
Car. Hand	J. D. Billings	270,375	Jan. 9	659	193, 194	23	138
Car. Hand	R. H. Johnson	270,678	Jan. 16	1056	302	23	222
Car. Hand	E. B. Linsley	270,320	Jan. 9	585	172	23	124
Car. Hand	E. B. Linsley	271,720	Feb. 6	158	44	23	468
Car. Hand	G. S. Sheffield. (Reissue)	10,303	Apr. 3	616	166	23	1330
Car. Hand	W. J. Willits	269,906	Jan. 2	98	29, 30	23	21
Car hand-brake	T. Hunt	279,565	June 19	1196	331	23	2341
Car-heater	W. M. Fuller	274,753	Mar. 27	1941	540	23	1192
Car-heater	R. Steel	277,626	May 15	1374	370, 371	23	1873
Car heater and ventilator. Safety	W. F. Condon	277,546	May 15	1276	342	23	1858
Car heater. Street	W. D. Nelson	270,553	Jan. 9	893	258	23	184
Car-heating and fire-extinguishing apparatus	E. W. Smith	284,682	Sept. 11	643	181, 182	24	1019
Car-heating apparatus	I. Shirpser	281,801	July 24	1853	506	24	341
Car heating, ventilating, and draft-regulating apparatus. Railway	J. Spear	286,341	Oct. 9	714	191	25	139
Car-journal lubricator	S. L. Wiegand	282,594	Aug. 7	145	43	24	526
Car label-holder	R. S. Coulter	270,283	Jan. 9	542	159	23	116
Car-label holder. Freight	A. D. Penfold	676,980	May 1	581	152, 153	23	1725
Car. Mining	G. Olsen	270,689	Jan. 16	1071	307	23	224
Car-motor. Spring	G. Stites, R. Steel, and S. Austin	271,151	Jan. 23	1029	468, 469	23	328
Car motor. Street	O. R. Erwin	270,938	Jan. 23	1374	396	23	286
Car-mover	J. Spengler	285,698	Sept. 25	1876	534	24	1252
Car or other seats	H. B. Cobb	277,115	May 8	763	201	23	1763
Car. Passenger	E. Chesterman	269,917	Jan. 2	110	33	23	23
Car. Passenger	A. Longstreet	275,397	Apr. 10	703	188	23	1355
Car-platform	W. F. Brown and C. L. Haight	289,614	Dec. 4	301	84	25	940
Car platform. Railway	S. M. Beery	290,516	Dec. 18	1451	401	25	1157
Car-platforms. Safety-gate for	E. L. Tevis	289,736	Dec. 4	448	125	25	964
Car propulsion. Street	R. F. Bridewell	279,325	June 12	890	247	23	2284
Car. Railway	C. F. Annan	279,311	June 12	864	241	23	2280

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car. Railway	S. K. Bayley	284,362	Sept. 4	248	69	24	946
Car. Railway	W. Hubbard	282,324	July 31	2522	691, 692	24	460
Car. Railway	E. B. Meatyard	274,805	Mar. 27	2001	556, 557	23	1903
Car. Railway	J. Parkinson	279,791	June 19	1450	406	23	2386
Car. Railway	J. W. Post	285,675	Sept. 25	1844	527	24	1247
Car. Railway	N. Wheeler	273,415	Mar. 6	226	61	23	872
Car. Railway	J. E. White	273,922	Mar. 13	879	239, 240	23	992
Car. Railway	T. L. Wilson	277,819	May 15	1591	435	23	1913
Car. Railway	T. L. Wilson	282,827	Aug. 7	420	118	24	574
Car. Railway	W. H. H. Young	290,280	June 26	2044	575	23	2496
Car. Railway hand	J. C. Perkins	290,703	Dec. 25	1693	466	25	1205
Car-replacer	J. T. Fosdick	287,528	Oct. 30	2208	599	25	430
Car-replacer	M. Herrens	283,784	Aug. 28	1508	451	24	814
Car-replacer	A. Reed	284,758	Sept. 11	743	206	24	1036
Car-replacer	W. Toombs	287,738	Oct. 30	2504	674	25	485
Car-roof	A. P. Le Gros	280,635	July 3	358	99	24	63
Car-roof	J. Walter	286,877	Oct. 16	1381	379	25	264
Car roof. Railway	W. A. Murtfeldt	284,141	Aug. 28	2053	570	24	893
Car-roofing	W. H. Paige	287,459	Oct. 30	2123	576	25	412
Car roofing. Freight	J. C. Wands	280,976	July 10	791	220	24	145
Car safety-bridge. Railway	A. B. Smith	289,866	Dec. 11	619	172	25	1002
Car safety-fender	P. H. Cooney	290,746	Dec. 25	1755	485	25	1217
Car-seat	H. B. Cobb	277,114	May 8	762	200, 201	23	1762
Car-seat	W. H. Paulding and B. J. Maybeck	281,129	July 10	975	272, 273	24	179
Car-seat	A. J. E. Readio	285,678	Sept. 25	1848	528	24	1248
Car-seat	A. M. Richards and E. Dinsley	285,433	Sept. 25	1564	440	24	1194
Car-seat attachment	P. W. Morris	290,344	Dec. 18	1208	338	25	1116
Car-seat head-rest	W. B. Taylor	283,533	Aug. 21	1282	359	24	743
Car seat. Railway	S. S. Black	287,999	Nov. 6	269	76	25	554
Car seat. Street	W. Don	287,644	Oct. 30	2372	640	25	460
Car-seat ticket-holder	C. S. Macann	274,621	Mar. 27	1788	497	23	1164
Car seats. Head-rest and attachment for railway	H. D. Wilson	272,395	Feb. 13	1015	284	23	627
Car-shifter	W. H. Lind	289,006	Nov. 27	1523	421	25	797
Car-signal	G. H. Cormack	290,540	Dec. 18	1480	409	25	1102
Car-signal	R. P. Garsed	276,801	May 1	348	93	23	1687
Car-signal	L. C. Huber	280,179	June 26	1916	538	23	2474
Car-signal	J. A. Miller	271,348	Jan. 30	1689	547	23	341
Car-signal	W. H. Rushforth	282,569	Aug. 7	115	34	24	520
Car-signal	W. H. Rushforth	282,570	Aug. 7	116	35	24	520
Car-signal	I. W. Stemen	285,173	Sept. 18	1256	352	24	1133
Car-signal	S. Thompson and W. E. Farrell	278,831	June 5	210	62	23	2159
Car-signal. Electro-magnetic	J. W. Marley	271,882	Feb. 6	355	99	23	503
Car signal-light. Railway	A. A. Bissell	278,213	May 22	2083	574	23	2004
Car-signal. Revolving	A. A. Bissell	285,380	Sept. 25	1497	421	24	1183
Car-signal. Revolving	L. W. Schoonover and J. Afflerbach	279,821	June 19	1485	416	23	2391
Car. Sleeping	L. Creighton	288,926	Nov. 20	1420	391	25	772
Car. Sleeping	H. Guillaume	284,733	Sept. 11	710	199	24	1031
Car. Sleeping	H. S. Hale	285,890	Oct. 2	141	40, 41	25	28
Car. Sleeping	H. S. Hale	289,346	Nov. 27	1934	537	25	873
Car. Sleeping	E. P. Kellogg	279,954	June 26	1658	465, 466	23	2427
Car. Sleeping	H. M. Neff	275,935	Apr. 17	1383	381	23	1479
Car. Sleeping	W. H. Paige	288,361	Nov. 13	716	196	25	640
Car. Sleeping	W. H. Paulding	272,580	Feb. 20	1259	351	23	675
Car. Sleeping	J. A. Sleicher	273,620	Mar. 6	486	131	23	917
Car. Sleeping	J. A. Sleicher	281,409	July 17	1338	370	24	249
Car. Sleeping	J. A. Sleicher	281,410	July 17	1338	370	24	249
Car. Sleeping	W. H. Wigmore	274,689	Mar. 27	1868	520, 521	23	1179
Car-spring	S. A. Bemis	284,713	Sept. 11	685	193	24	1026
Car-spring	J. B. N. Berry	279,907	June 26	1598	448	23	2418
Car-spring	E. Cliff	283,078	Aug. 14	720	202	24	635
Car-spring	N. H. Davis	287,638	Oct. 30	2368	639	25	459
Car-spring	N. H. Davis	287,639	Oct. 30	2369	639	25	459
Car-spring	N. H. Davis	287,640	Oct. 30	2369	639	25	460
Car-spring	W. P. Hansell	273,837	Mar. 13	773	209	23	974
Car-spring	C. C. Hebbard	290,582	Dec. 18	1534	422	25	1172
Car-spring	T. J. Mayall	286,042	Oct. 2	323	90	25	59
Car-spring	A. Stroh	270,349	Jan. 9	623	184	23	131
Car-spring support	W. Don	288,779	Nov. 20	1245	342	25	739
Car-starter	A. F. Clark	274,463	Mar. 27	1575	431, 432	23	1198
Car-starter	H. Clark	280,450	July 3	140	38	24	26
Car-starter	H. Clark	288,016	Nov. 6	291	82	25	557
Car-starter	W. B. Cleaveland	281,975	July 24	2063	565	24	378
Car-starter	J. G. Crate and J. F. Morell	284,948	Sept. 11	966	271, 272	24	1076
Car-starter	W. H. Harrison	271,066	Jan. 23	1532	442	23	312
Car-starter	L. W. Hewett and S. J. Leonard	275,211	Apr. 3	425	116, 117	23	1299
Car-starter	L. W. Hewett and T. Millen	280,744	July 3	492	139	24	87
Car-starter	A. W. Smith	271,661	Feb. 6	91	25	23	456
Car-starter	T. Soetbeer	274,399	Mar. 20	1465	408	23	1105
Car-starter	J. A. True and E. Smith	290,720	Dec. 25	1721	475	25	1212
Car-starter	E. Utz	279,049	June 5	537	146	23	2215
Car-starter	E. Utz and T. Sprick	272,358	Feb. 13	957	266, 267	23	617
Car-starter	C. P. Warnick	278,378	May 29	2324	636	23	2054
Car starter and brake	C. T. Brown	277,863	May 15	1646	449	23	1923

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car starter and brake	W. G. Stitt, J. Lowbridge, and A. Rosenkranz.	288,678	Nov. 20	1123	309	25	717
Car steam-heater. Railway	N. Slingland	284,250	Sept. 4	120	32, 33	24	925
Car-step	A. Cameron and C. E. Russell	280,129	June 26	1865	526	23	2465
Car-step	T. B. Howe	274,197	Mar. 20	1220	336	23	1059
Car-step	H. C. Reagan, Jr	273,155	Feb. 27	1068	560	23	810
Car-step	H. S. Wolfe	290,957	Dec. 25	2018	557	25	1262
Car step. Street	B. J. J. Townsend	280,883	July 10	672	189	24	126
Car-steps, &c. Device for lighting	G. W. Hunt	278,141	May 22	1989	547	23	1988
Car. Stock	A. V. Anderson	269,988	Jan. 2	194	56	23	40
Car. Stock	E. B. Brown	288,405	Nov. 13	786	212, 213	25	652
Car. Stock	G. D. Burton	284,116	Aug. 28	2021	562	24	888
Car. Stock	G. D. Burton and J. M. Holden	274,458	Mar. 27	1570	430	23	1128
Car. Stock	A. Chapman	275,998	Apr. 17	1456	401	23	1493
Car. Stock	A. W. Clifford	284,819	Sept. 11	814	227	24	1048
Car. Stock	I. H. and C. Dahlman	282,706	Aug. 7	291	82	24	550
Car. Stock	J. Dixey	279,358	June 12	933	261	23	2291
Car. Stock	J. C. Foster	271,695	Feb. 6	133	36, 37	23	463
Car. Stock	M. H. Gilbert	274,585	Mar. 27	1748	485	23	1157
Car. Stock	H. C. Hicks	279,102	June 12	698	190	23	2252
Car. Stock	H. C. Hicks	281,067	July 10	897	249	24	166
Car. Stock	H. C. Hicks	288,335	Nov. 13	683	188	25	634
Car. Stock	B. P. Joiner	276,595	May 1	66	18	23	1630
Car. Stock	E. Kohler	275,221	Apr. 3	435	119	23	1301
Car. Stock	H. A. Lewis	276,053	Apr. 17	1524	419	23	1503
Car. Stock	W. Martin	273,570	Mar. 6	431	116	23	908
Car. Stock	A. C. Mather	272,451	Feb. 20	1090	308	23	645
Car. Stock	S. Pavey	273,141	Feb. 27	1074	555	23	808
Car. Stock	S. P. Tallman	274,991	Apr. 3	137	39	23	1249
Car. Stock	S. P. Tallman	288,680	Nov. 20	1125	310	25	718
Car. Stock	M. H. Walker	288,683	Nov. 20	1129	311	25	718
Car. Stock	J. C. Weaver	284,103	Aug. 28	1999	556, 557	24	884
Car. Stock	J. K. Weber	283,441	Aug. 21	1179	331	24	725
Car. Stock	S. C. Wiser	274,240	Mar. 20	1285	354	23	1071
Car. Suspension railway	D. Query	277,783	May 15	1553	423	23	1906
Car-switching system. Street	T. B. Estep	280,300	June 26	2073	584	23	2502
Car-tracker	S. J. Stewart	275,728	Apr. 10	1119	306	23	1425
Car unloader. Grain	J. H. Chase	277,460	May 15	1175	315	23	1841
Car-unloading apparatus	V. D. Simar and J. Dale	282,125	July 31	2274	624	24	418
Car-ventilation	W. Bedell	280,783	July 10	563	158	24	106
Car-ventilator	F. P. Abercrombie	272,371	Feb. 13	972	271	23	621
Car-ventilator	J. M. J. A. P. D'Aragon	280,722	July 3	459	131, 132	24	82
Car-ventilator	S. C. Hill, S. D. Webb, and R. M. Odell.	282,889	Aug. 7	496	139	24	588
Car-ventilator	O. H. Jones	277,903	May 22	1699	464	23	1938
Car-ventilator	J. Walker	274,063	Mar. 13	1044	288	23	1021
Car ventilator. Railway	E. H. Mott	270,603	Jan. 16	960	278	23	205
Car-wheel	R. N. Allen. (Reissue)	10,306	Apr. 10	1208	331	23	1440
Car-wheel	M. O. Baldwin	276,211	Apr. 24	1723	477	23	1546
Car-wheel	H. M. Boies	290,518	Dec. 18	1454	402	25	1158
Car-wheel	D. Connell	287,629	Oct. 30	2358	636	25	457
Car-wheel	W. B. Dixon	286,183	Oct. 9	497	137	25	103
Car-wheel	W. R. Jenkins, Jr	276,047	Apr. 17	1518	418	23	1502
Car-wheel	A. Keil	290,434	Dec. 18	1338	370	25	1137
Car-wheel	E. J. Kelly	288,817	Nov. 20	1294	354	25	747
Car-wheel	J. T. Leighton	284,028	Aug. 28	1909	535	24	869
Car-wheel	W. I. Lindsay	284,448	Sept. 4	351	97	24	963
Car-wheel	E. B. Meatyard and J. Whyte	283,631	Aug. 21	1395	391	24	765
Car-wheel	P. E. Merrihew	288,469	Nov. 13	867	234	25	666
Car-wheel	J. R. Morgan	278,726	June 5	66	20	23	2136
Car-wheel	W. H. Paige	274,218	Mar. 20	1255	346	23	1065
Car-wheel	D. W. Reese	289,712	Dec. 4	434	121	25	962
Car-wheel	D. W. Reese	289,713	Dec. 4	435	121	25	962
Car-wheel	E. K. Righter	289,142	Nov. 27	1688	469	25	826
Car-wheel	L. A. Roby and S. T. Wellman	284,330	Sept. 4	211	59	24	940
Car-wheel	R. M. Smith	272,342	Feb. 13	935	260	23	614
Car-wheel	W. W. Snow	276,727	May 1	257	65	23	1668
Car-wheel	T. Thurber	287,888	Nov. 6	120	36	25	529
Car-wheel	N. Washburn	279,466	June 12	1070	296	23	2313
Car-wheel	S. T. Wellman	271,286	Jan. 30	1805	523	23	366
Car-wheel	J. M. Whiting	282,593	Aug. 7	144	43	24	526
Car-wheel	W. J. Willits	280,702	July 3	438	125	24	78
Car-wheel	H. G. Yates	278,843	June 5	232	68	23	2163
Car wheel and axle	J. Findlay	285,984	Oct. 2	254	72	25	49
Car wheel and axle	M. Jordan	269,042	Jan. 2	146	42	23	30
Car wheel and axle	A. Keil	290,435	Dec. 18	1339	371	25	1138
Car wheel and brake. Electro-magnetic	H. M. Beidler	284,365	Sept. 4	251	70	24	947
Car-wheel boring and truing machine	W. P. Barclay	271,680	Feb. 6	112	31	23	459
Car-wheel boring and truing machine	J. H. Gowan	285,123	Sept. 18	1191	334	24	1122
Car-wheel boring and truing machine. Chilled	W. P. Barclay	283,367	Aug. 21	1093	307, 308	24	709
Car-wheel chill	J. N. Barr	279,520	June 19	1143	316	23	2332
Car-wheel chill	W. Wilmington	270,869	Jan. 16	1284	370	23	985
Car-wheel chill	W. Wilmington	282,825	Aug. 7	418	118	24	574
Car-wheel chill. Contracting	J. N. Barr	288,969	Nov. 27	1479	410	25	789
Car-wheel-cleaning device	P. H. Griffin	270,306	Jan. 9	567	166	23	121
Car-wheel guard	J. Stephenson	283,298	Aug. 14	989	276, 277	24	684
Car wheel-guard. Railway	J. Jacobs	277,490	May 15	1212	325	23	1847
Car-wheel lubricator	J. Stephenson	285,082	Sept. 18	1139	318	24	1113
Car-wheel tires. Device for manufacturing	J. A. Facer and A. Schaub	271,823	Feb. 6	288	79	23	492

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Car-wheel-truing machine	J. H. Gowan	287,762	Oct. 30	2537	683	25	491
Car-wheels. Machine for grinding	A. W. McIntyre	288,717	Nov. 20	1167	320 321	25	725
Car-window deflector	H. B. Mears	272,738	Feb. 20	1453	408	23	710
Car window-ventilator. Railway-	H. H. Reynolds	275,271	Apr. 3	494	137	23	1310
Car windows. Sash-holder for street-	I. N. W. Sherman	277,793	May 15	1564	426	23	1908
Cars. Baggage-rack for railway-	H. C. Hart	282,887	Aug. 7	493	139	24	587
Cars by electricity. Propelling	J. R. Finney	285,353	Sept. 18	1454	410	24	1169
Cars. Curtain-bracket for sleeping-	J. H. Doerr and W. H. Wigmore	275,164	Apr. 3	366	101	23	1299
Cars. Device for loading cattle on railway-	H. C. Hawley and J. I. Davis	274,192	Mar. 20	1214	334	23	1058
Cars. Device for unloading platform-	G. P. Merrill	279,578	June 19	1210	335	23	2343
Cars from one track to another. Transferring	W. Wharton, Jr	282,815	Aug. 7	405	114	24	572
Cars. Guard attachment for city-railway	J. Stephenson	284,254	Sept. 4	124	34	24	925
Cars. Heating railway-	M. Hurly	289,265	Nov. 27	1832	505	25	853
Cars. Lumber-door for railway box-	G. B. Nichols	280,395	July 3	67	18	24	14
Cars. Machine for unloading railway-	A. Hall	279,868	June 19	1546	432	23	2402
Cars. Method of and apparatus for heating	J. Mason	271,885	Feb. 6	358	99	23	503
Cars on cable railways. Operating	J. Jochum	288,815	Nov. 20	1291	354	25	747
Cars on curves. Moving street-	N. A. Fisher	289,904	Dec. 11	669	186	25	1010
Cars. Plow for unloading	J. McMullin	287,698	Oct. 30	2449	659 660	25	475
Cars. Side bearing for railway-	S. D. King	273,693	Mar. 6	582	155	23	933
Cars. Ventilating	W. Scott	290,710	Dec. 25	1709	470	25	1209
Carbon	W. C. Beckwith	290,836	Dec. 25	1666	515	25	1237
Carbon-black. Machine for the manufacture of	W. Falconer	277,472	May 15	1188	319	23	1643
Carbon conductors. Apparatus for treating	E. Weston	289,327	Nov. 27	1913	532	25	869
Carbon filaments. Apparatus for treating	C. G. Perkins	287,318	Oct. 23	1950	532	25	373
Carbon plates. Apparatus for making	E. J. Molera and J. C. Cebrian	278,355	May 29	2297	628	23	2049
Carbon plates. Manufacture of porous	C. H. Koyl	279,400	June 12	998	.....	23	2301
Carbon rod or stick and mechanism for making the same.	C. F. Brush	274,904	Apr. 3	15	4	23	1229
Carbonating apparatus	W. J. Cunningham	290,749	Dec. 25	1763	486	25	1219
Carbonizing-mold	T. A. Edison	287,522	Oct. 30	2200	598	25	428
Carbonizing. Mold for	T. A. Edison	274,291	Mar. 20	1348	371	23	1081
Carboy-hanger	E. L. Dunnet	270,183	Jan. 2	417	121	23	85
Carboy holder. Acid-	C. S. Joslin	273,098	Feb. 27	1922	538	23	797
Carboy-stand	C. T. Armstrong	272,512	Feb. 20	1171	327	23	659
Carboy support. Acid-	A. D. Puffer	280,860	July 10	646	182	24	190
Carboys and other vessels. Handle for	F. A. Howard	283,785	Aug. 28	1599	452	24	815
Carbureting apparatus	C. A. Paquelin. (Reissue)	10,358	July 17	1653	450	24	300
Carbureting apparatus. Gas-	N. A. Ransom	275,268	Apr. 3	490	136	23	1309
Carburetor	T. J. Brough	284,373	Sept. 4	259	72	24	948
Carburetor	C. F. Copeland	274,176	Mar. 20	1198	330	23	1055
Carburetor	C. F. Copeland	288,622	Nov. 20	1050	289	25	706
Carburetor	L. F. Mills	281,108	July 10	940	263 264	24	174
Carburetor	I. W. Shaler	278,281	May 22	2170	598	23	2018
Carburetor	J. H. Saunderson	288,868	Nov. 20	1351	371	25	758
Carburetor. Metrical	W. M. Jackson	280,746	July 3	496	140	24	88
Card-board. Ornamental	C. S. Plummer	289,444	Dec. 4	85	24	25	901
Card-cylinder and making the same	W. P. Maxfield	273,573	Mar. 6	434	117	23	909
Card for book-marks and for advertising mediums	L. S. Samuel	289,566	Dec. 4	246	69	25	930
Card-gilding machine	C. A. Wright	290,303	Dec. 18	1154	323 324	25	1105
Card-grinder	C. B. and O. B. Parker	277,604	May 15	1347	363	23	1868
Card-grinding machine	C. B. and O. B. Parker and B. P. Grover.	286,633	Oct. 16	1074	289	25	211
Card-grinding machine	B. S. Roy	276,884	May 1	449	120 121	23	1705
Card-grinding machine	C. Schrebler	278,608	May 29	2596	708	23	2102
Card-grinding roll	D. Bateman	269,821	Jan. 2	2	1	23	3
Card-holder	P. Ruffani	286,332	Oct. 9	704	187	25	138
Card or sample holder	F. L. Cutter	275,601	Apr. 10	958	260	23	1398
Card or ticket holder	W. H. Soper	274,400	Mar. 20	1486	409	23	1106
Card. Ornamental	J. Lane	279,490	June 12	1099	304	23	2317
Card. Picture-	C. Schwartz	286,642	Oct. 16	1084	292	25	212
Card. Playing-	A. Dougherty	278,412	May 29	2364	646	23	2061
Card-scoring machine	R. P. Strachan and G. Henshaw	289,162	Nov. 27	1711	476	25	830
Card-setting machines. Oscillating cutter for	O. Arnold	284,161	Sept. 4	1	1	24	905
Card-support	J. W. Carter, Jr	272,120	Feb. 13	672	183	23	568
Card-support	W. Hagelberg	278,941	June 5	400	110	23	2192
Card table and counter combined	B. W. Morris and N. Weaver	280,655	July 3	379	106	24	67
Card-teeth. Machine for setting	J. J. Hoey	271,460	Jan. 30	2038	586 587	23	408
Cards and samples. Device for exhibiting	H. Cole	277,681	May 15	1436	387	23	1884
Cards or tickets for creating value. Machine for manipulating	C. L. Campbell and M. T. Martin	290,395	Dec. 18	1274	358	25	1127
Cards, pictures, and transparencies. Producing ornamental	C. H. Muhrman	271,505	Jan. 30	2092	.....	23	417
Carding-cylinder	J. H. Leather	285,631	Sept. 25	1798	512	24	1238
Carding-cylinder	H. L. Moulton	273,878	Mar. 13	829	225	23	984
Carding-engines. Feeding mechanism for	J. F. Gebhart	285,608	Sept. 25	1770	501 502	24	1233
Carding-engines. Mechanism for stripping the top-flats of	H. Woodman	280,774	July 3	545	152	24	96
Carding-engines. Mechanism for vibrating the fly or doffer combs of	B. A. Dobson	280,805	July 10	586	163 164	24	110
Carding-engines. Weighing apparatus for	J. F. Gebhart	273,980	Mar. 13	945	260	23	1004
Carding-machine	R. F. Barker	287,405	Oct. 30	2060	560	25	400
Carding-machine	J. Potter	280,238	June 26	1995	561	23	2488
Carding-machine	J. Potter	286,065	Oct. 2	352	98	25	65
Carding-machine	W. E. Whitehead	270,715	Jan. 16	1104	316	23	231
Carding-machine	W. E. Whitehead	271,558	Jan. 30	2152	620	23	427
Carding-machine	W. E. Whitehead	275,447	Apr. 10	767	204	23	1365

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Carding-machine feeding mechanism	T. E. Ainley	288,686	Nov. 20	1133	311, 312	25	719
Carding-machine feeding mechanism	S. Driver	290,758	Dec. 25	1772	489	25	1221
Carding-machines, &c. Coiler for	R. Tatham	271,155	Jan. 23	1635	471	23	329
Carding-machines. Lap-feeding device for	R. Wilde	290,378	Dec. 18	1251	351	25	1123
Carpenter's gage	W. F. Berry	273,440	Mar. 6	257	69	23	877
Carpet	E. Berliner	284,268	Sept. 4	137	39	24	928
Carpet-beater	A. List and O. Kunath	273,293	Mar. 6	64	19	23	845
Carpet-beating machine	H. W. Bates	276,656	May 1	144	37	23	1651
Carpet-beating machine	G. F. Ricker	274,224	Mar. 20	1261	348	23	1067
Carpet-beating machine	J. Spaulding	276,494	Apr. 24	2082	578	23	1607
Carpet-cleaner	J. L. Leach	286,832	Oct. 16	1323	361	25	255
Carpet-cleaner	W. P. Miller	288,720	Nov. 20	1182	323	25	726
Carpet-cleaner	S. B. Ryder	286,965	Oct. 16	1493	410	25	283
Carpet-cleaning apparatus	W. Bowman and E. Hunscher	271,406	Jan. 30	1962	567	23	394
Carpet-exhibitor	A. Peterson	280,855	July 10	642	181	24	119
Carpet-fastener	C. E. Allen	287,990	Nov. 6	259	74	25	552
Carpet-fastener	W. R. Johns	284,637	Sept. 11	583	164	24	1009
Carpet-fastener	E. J. Lewis	277,143	May 8	804	211	23	1770
Carpet-fastener	L. A. Nickerson and J. L. Dufrane	287,388	Oct. 23	2031	552	25	387
Carpet-lining	S. Bird and S. Pember	286,765	Oct. 16	1241	336	25	240
Carpet-lining	G. H. Chinnock and J. G. Stephens	277,832	May 15	1608	439	23	1916
Carpet-lining, &c.	L. P. Jenks	271,075	Jan. 23	1546	445	23	314
Carpet-lining	J. H. Wingfield	276,118	Apr. 17	1611	444	23	1518
Carpet-linings. Machine for folding	T. H. Farnham	270,940	Jan. 23	1380	399	23	287
Carpet-stretcher	S. Amick	290,308	Dec. 18	1163	326	25	1107
Carpet-stretcher	W. F. Ashcroft	270,720	Jan. 16	1110	317	23	232
Carpet-stretcher	H. W. Bowen	288,301	Nov. 13	633	173	25	626
Carpet-stretcher	J. P. Curry	286,788	Oct. 16	1268	343	25	245
Carpet-stretcher	W. H. Drew	277,015	May 8	628	165	23	1740
Carpet-stretcher	E. Hofmann	276,406	Apr. 24	1976	547	23	1588
Carpet-stretcher	A. J. Kennedy	286,708	Oct. 16	1173	315	25	228
Carpet-stretcher	J. Lindsay	289,007	Nov. 27	1523	421	25	797
Carpet-stretcher	J. W. McKinnon	272,295	Feb. 13	876	245	23	605
Carpet-stretcher	G. Mulligan	273,130	Feb. 27	1958	550	23	805
Carpet-stretcher	J. Peterman and S. Smith	272,468	Feb. 20	1111	314	23	649
Carpet-stretcher	R. O. Robinson	283,818	Aug. 28	1636	461	24	820
Carpet-stretcher	H. Segur	290,274	Dec. 18	1119	315	25	1100
Carpet-stretcher	J. S. Sherman	285,313	Sept. 18	1469	398	24	1162
Carpet-stretcher	H. S. Wing	283,053	Aug. 14	692	194	24	630
Carpet-stretcher and tack-driver. Combined	A. H. Morris and N. Finck	287,502	Oct. 30	2251	611	25	438
Carpet-sweeper	M. R. Bissell	272,022	Feb. 13	546	148	23	547
Carpet-sweeper	M. R. Bissell	285,000	Sept. 18	1043	292	24	1096
Carpet-sweeper	W. S. Carter	282,957	Aug. 14	572	162	24	609
Carpet-sweeper	W. H. Castle	277,229	May 8	897	239	23	1786
Carpet-sweeper	G. W. Gates	284,833	Sept. 11	827	231	24	1051
Carpet-sweeper	G. W. Gates	285,745	Sept. 25	1948	551	24	1263
Carpet-sweeper	D. R. Nichols	288,590	Nov. 13	1069	278	25	693
Carpet-sweeper	V. H. Snook	271,284	Jan. 30	1801	522	23	365
Carpet-sweeper	B. R. Stevens	276,495	Apr. 24	2084	579	23	1607
Carpet-sweeper	G. W. Zeigler	280,435	July 3	123	33	24	23
Carpet-sweeper	G. W. Zeigler	283,318	Aug. 14	1012	283, 284	24	689
Carpets. Apparatus for laying and stretching	A. B. Yoder and A. Schwenk	282,596	Aug. 7	147	44	24	526
Carpets. Name-plate for marking	J. H. Vandeventer	290,151	Dec. 11	959	271	25	1064
Carriage	J. S. G. F. Hörcher	282,081	July 31	2199	604	24	407
Carriage-apron	G. E. Spare	273,180	Feb. 27	2018	567	23	815
Carriage-body hanger	J. Bowser	282,436	July 31	2070	732	24	486
Carriage-boot	T. Hawley	279,944	June 26	1648	462	23	2426
Carriage-boot	T. Hawley	279,945	June 26	1649	462	23	2426
Carriage-bow	S. N. Castle	272,374	Feb. 13	976	273	23	622
Carriage-bow socket	C. S. Rathbun and S. F. Selby	283,022	Aug. 14	658	185	24	624
Carriage-button	P. Shocker and A. H. Shepard	283,676	Aug. 21	1451	408	24	776
Carriage. Child's	H. F. Brooks	276,655	May 1	553	144	23	1721
Carriage. Child's	G. W. Bryan	281,832	July 24	1888	515	24	348
Carriage. Child's	J. A. Crandall	280,454	July 3	146	39	24	27
Carriage. Child's	J. F. Downing	286,186	Oct. 9	500	138	25	103
Carriage. Child's	C. A. Goessmann	289,928	Jan. 2	124	37	23	26
Carriage. Child's	C. Pfeffer	290,704	Dec. 25	1693	466	25	1206
Carriage. Child's	H. M. Richardson. (Reissue)	10,363	Aug. 7	556	157	24	600
Carriage. Child's	G. P. Steinbach	270,612	Jan. 16	971	280	23	207
Carriage. Child's	C. S. Strowbridge	285,935	Oct. 2	203	57	25	39
Carriage. Child's	C. H. Wentworth	283,939	Aug. 28	1779	502, 503	24	847
Carriage. Child's	E. A. Wood	270,561	Jan. 9	903	261	23	186
Carriage-clip	W. H. Cooper	283,976	Aug. 28	1823	515	24	855
Carriage-coupling	R. G. Wood	282,142	July 31	2291	629	24	421
Carriage-curtain fastener	G. L. Crandal. (Reissue)	10,301	Apr. 3	615	165	23	1330
Carriage-curtain fastener	W. E. Curtis	289,991	Dec. 11	773	217	25	1029
Carriage-curtain fastener	S. C. Meckel	278,989	June 5	456	125	23	2201
Carriage-curtain fastening	W. Leggett	273,745	Mar. 13	651	173	23	954
Carriage-curtain fastening	J. Logan	280,383	July 3	54	14	24	12
Carriage-curtain fastening	W. Welker	285,090	Sept. 18	1153	321	24	1115
Carriage-curtain fastenings. Nail for	F. Hanson	273,729	Mar. 13	635	169	23	951
Carriage-curtain knob-patch fastener	A. S. Parker	274,137	Mar. 20	1149	316	23	1046
Carriage-curtain lights. Frame for	J. Watters	277,388	May 8	1082	290	23	1819
Carriage-curtain loop	F. A. Neider	276,269	Apr. 24	1790	498	23	1557
Carriage curtain or covering	E. W. Harral	280,309	June 26	2082	587	23	2503
Carriage-curtain strap-fastening	F. A. Neider	282,354	July 31	2563	702	24	467
Carriage-curtain window	F. A. Neider	282,355	July 31	2564	702	24	467
Carriage-door	G. Lowa	275,398	Apr. 10	704	188	23	1355
Carriage-door flap	J. J. Doyle	285,240	Sept. 18	1330	375	24	1147
Carriage-doors. Device for opening and closing	H. W. Yonley	282,597	Aug. 7	148	44	24	526
Carriage-driving detector	F. S. Twombly	280,535	July 3	238	64	24	43

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Carriage. Folding baby	F. Meyer	276,853	May 1	410	109	23	1698
Carriage-gearing	A. S. Carleton	281,667	July 24	1668	455	24	309
Carriage-iron	J. B. Birdsell	279,527	June 19	1155	320	23	2334
Carriage-jack	A. J. Church	287,625	Oct. 30	2354	635	25	456
Carriage-jack	E. Myrick	276,268	Apr. 24	1789	497	23	1557
Carriage-jack	A. O. Scott	282,573	Aug. 7	120	35	24	521
Carriage. Jump-seat	O. Morrill	274,633	Mar. 27	1800	500	23	1167
Carriage. Jump-seat	O. Morrill	276,583	May 29	2563	700	23	2097
Carriage jump-seat	H. P. Wells	285,450	Sept. 25	1581	445	24	1197
Carriage or wagon jack	W. Hillman	288,057	Nov. 6	334	94	25	564
Carriage register. Wheel	J. E. Tarbox	286,743	Oct. 16	1214	327	25	235
Carriage running-gear	G. W. Earle and G. S. Strail	276,011	Apr. 17	1473	406	23	1495
Carriage seat	C. Haas	272,381	Feb. 13	995	277	23	624
Carriage-seat	F. D. McDowell	274,131	Mar. 20	1143	315	23	1045
Carriage-seat	F. W. Pendergast	280,509	July 3	213	56	24	38
Carriage-spring	J. J. Fetzer	289,078	Nov. 27	1616	447	25	813
Carriage-spring	T. D. Lines	287,303	Oct. 23	1932	528	25	369
Carriage-spring	W. Van Anden	271,953	Feb. 6	445	122	23	519
Carriage-spring	W. Van Anden	290,502	Dec. 18	1425	395	25	1153
Carriage-springs. Die for making	R. S. Hunzeker	285,623	Sept. 25	1788	508	24	1237
Carriage standard. Child's	C. C. Egerton	278,000	May 22	1817	496	23	1958
Carriage-step	F. A. Sawyer	287,870	Nov. 6	100	29.30	25	525
Carriage-step pads. Die for forming	D. F. Southwick	277,853	May 15	1635	445	23	1921
Carriage-top	H. M. Bowden	287,499	Oct. 30	2174	590	25	422
Carriage-top	W. Clucus	273,959	Mar. 13	921	253	23	999
Carriage-top	D. Conboy	277,116	May 8	765	201	23	1763
Carriage-top	W. Hodge	270,230	Jan. 9	470	138	23	102
Carriage-top	W. Hodge	274,496	Mar. 27	1636	455	24	1138
Carriage-top	R. L. Keith	283,895	Aug. 28	1723	486	24	835
Carriage-top	W. B. Sales	273,766	Mar. 13	690	185	23	960
Carriage-top	L. Schmetzer	272,779	Feb. 20	1505	424	23	719
Carriage-top	L. Schmetzer	276,288	Apr. 24	1815	505	23	1561
Carriage-top-bow support	J. P. Whitman	272,814	Feb. 20	1551	435	23	727
Carriage top. Child's	J. N. Hazelip	276,035	Apr. 17	1504	414	23	1500
Carriage-top. Folding	R. E. Ellis	283,873	Aug. 28	1698	478	24	831
Carriage-top joint	W. H. Thompson	290,144	Dec. 11	952	269	25	1063
Carriage-top lock. Landau	O. S. Osborn	290,349	Dec. 18	1214	340	25	1117
Carriage top-prop	G. L. Artz	283,553	Aug. 21	1306	366	24	748
Carriage-top prop	A. S. Parker	289,878	Jan. 2	64	20	23	15
Carriage-top prop	W. F. Stuart	278,060	May 22	1884	511	23	1970
Carriage-top prop-block	H. A. Thorpe and R. H. Pfaff	286,239	Oct. 9	558	153	25	113
Carriage-top props. Locking the nuts of	G. L. Crandal	281,344	July 17	1256	349	24	235
Carriage-top setter	J. Stoody	273,187	Feb. 27	2023	569	23	816
Carriage-top standard	G. M. Bechtel	278,676	June 5	2	1	23	2125
Carriage-top standard	T. W. Porter	285,070	Sept. 18	1127	315	24	1111
Carriage-top standard	J. T. Walker	283,690	Aug. 21	1468	414	24	779
Carriage-tops. Cap or shield for buckle-straps of	G. W. Traphagan	290,289	Dec. 18	1138	319	25	1103
Carriage-tops. Jointed brace for	B. Taylor	281,944	July 24	2024	554	24	372
Carriage-way. Wire	G. R. Elliott	276,529	Apr. 24	2122	592	23	1615
Carriage-wheel lock	W. B. Bain	288,154	Nov. 6	441	124	25	585
Carriage-window cushion	I. H. Mulford	271,900	Feb. 6	380	105	23	507
Carriage-wrench	D. True	271,549	Jan. 30	2143	616	23	426
Carriage-wrench	D. True	279,993	June 26	1701	477	23	2435
Carriages. Canopy-holder for children's	G. D. Paul	290,103	Dec. 11	900	256	25	1053
Carriages. Canopy-holder for children's	A. G. Snell	281,311	July 17	1213	336	24	228
Carriages. Canopy-support for children's	J. F. Butler and U. McClinchie	275,582	Apr. 10	930	253	23	1393
Carriages. Equalizer for spring	O. F. Lowe	278,984	June 5	450	123	23	2200
Carriages. Umbrella for children's	C. D. Foster	288,703	Nov. 20	1153	317	25	722
Carrier: *See* Baby-carrier. Cable carrier. Cash-carrier. Cash and bundle carrier. Cash and parcel carrier. Cash or parcel carrier. Coal and ore carrier. Egg-carrier. Endless-chain carrier. Game-carrier. Harvester bundle-carrier. Hay-carrier. Hoisting-carrier. Hoisting machinery carrier. Milk or cream carrier. Package-carrier. Parcel-carrier. Rein-carrier. Sewing-machine shuttle-carrier. Shaft-carrier. Sheaf-carrier. Straw-carrier. Thrashing-machine straw-carrier. Thill-carrier. Trace-carrier. Trunk-carrier.							
Carrying system	Z. S. Holbrook	282,319	July 31	2509	689	24	457
Carrying system	Z. S. Holbrook	282,893	Aug. 7	500	140 141	24	589
Cart. Driving	E. Hutson and E. Squires	271,710	Feb. 6	147	41	23	468
Cart. Dumping	T. Hill	283,604	Aug. 21	1366	382	24	759
Cart. Dumping	W. Loughridge	270,905	Jan. 23	1334	385	23	280
Cart. Road	N. P. Anderson	288,965	Nov. 27	1476	409	25	769
Cart. Road	T. F. Conklin	271,223	Jan. 30	1724	499	23	352
Cart. Road	J. M. Hiller	288,336	Nov. 13	685	188	25	634
Cart. Road	A. Hitt	288,805	Nov. 20	1278	350	25	745
Cart. Road	H. L. Kingsley	284,132	Aug. 28	2038	567	24	891
Cart. Road	J. Weiler	285,189	Sept. 18	1273	358	24	1136
Cart-spring	G. Walter	270,164	Jan. 2	397	115	23	81
Cart-wheel	C. Dégrange	283,867	Aug. 28	1690	477	24	830
Cartridge	T. Baker and W. M. Scott	271,565	Jan. 30	2163	623	23	429
Cartridge	L. G. Knowles	283,898	Aug. 28	1725	487	24	835
Cartridge	J. H. McLean	282,550	Aug. 7	91	27	24	516
Cartridge	E. A. Monfort	276,451	Apr. 24	2033	564	23	1589

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cartridge and wiper	F. C. Taylor	270,616	Jan. 16	974	281	23	207
Cartridge. Blasting	S. R. Divine	289,764	Dec. 4	487	.....	25	971
Cartridge. Blasting	G. A. Schneebeli	273,399	Mar. 6	208	56	23	869
Cartridge-box	D. T. Mulvey	290,067	June 26	1798	505	23	2452
Cartridge-capping machine	W. Lorenz	274,618	Mar. 27	1785	496, 497	23	1164
Cartridge-case for needle-guns	A. N. Gavard and H. Millon	276,022	Apr. 17	1490	410	23	1498
Cartridge-case. Paper	T. L. Sturtevant	270,996	Jan. 23	1452	418	23	299
Cartridge-closing machine	C. S. Leet and W. H. Northall	287,693	Oct. 30	2438	656	25	474
Cartridge-crimper	H. A. A. Thorn	290,370	Dec. 18	1238	349	25	1121
Cartridge-extractor for breech-loading guns	P. and C. G. Tissier	289,787	Dec. 4	513	142	25	975
Cartridge-feed case	H. A. Lewis	283,122	Aug. 14	773	218	24	645
Cartridge implement	W. W. Christmas and F. B. Jonas	290,973	Dec. 25	2052	565	25	1267
Cartridge implement	E. R. Darling	272,215	Feb. 13	779	216	23	586
Cartridge implement	E. R. Darling. (Reissue)	10,421	Dec. 11	1009	284	25	1073
Cartridge implement	D. W. McBrayer	290,594	Dec. 18	1546	425	25	1174
Cartridge implement	C. H. Smith and L. E. Hansberry	290,127	Dec. 11	933	265	25	1050
Cartridge-loading implement	J. E. Langdon	272,141	Feb. 13	695	190	23	572
Cartridge-loading machine	L. Keller	272,060	Feb. 13	593	160	23	555
Cartridge-loading machine	A. P. La Plant	283,791	Aug. 28	1605	453	24	816
Cartridge-loading machine	J. L. Mott, Jr	283,804	Aug. 28	1616	455	24	817
Cartridge-loading machine	J. B. Richardson	288,740	Nov. 20	1204	329, 330	25	731
Cartridge-loading machine	F. A. Winter	289,592	Dec. 4	276	77, 78	25	936
Cartridge-loading mechanism	J. F. Marsters	284,874	Sept. 11	878	246	24	1060
Cartridge-packing case	W. R. Livermore and A. H. Russell	278,980	June 5	445	122	23	2199
Cartridge-pouch	O. D. Collins	287,804	Nov. 6	18	6	25	510
Cartridge-primer	J. H. Bullard	278,394	May 29	2342	640	23	2057
Cartridge primer. Blasting	A. Frothingham	273,270	Mar. 6	31	10	23	840
Cartridge-reloading tool	T. H. Logan	281,636	July 17	1620	433	24	295
Cartridge-shell	P. O. Kessler	283,118	Aug. 14	770	217	24	644
Cartridge-shell	H. G. Piffard	272,581	Feb. 20	1260	351	23	675
Cartridge-shell blanks. Feeding	P. Trinkaus	285,182	Sept. 18	1266	355	24	1135
Cartridge-shell extractor	C. S. Leet	282,997	Aug. 14	625	177	24	618
Cartridge-shells. Implement for capping and uncapping	H. F. Mann	288,950	Nov. 20	1452	401	25	777
Cartridge-shells into tubes. Machine for feeding metallic	W. Mason	271,886	Feb. 6	359	100	23	504
Cartridge-shells. Machine for capping	J. Orcutt and C. R. Richards	279,497	June 12	1110	306	23	2319
Cartridge-shells. Machine for heading	A. C. Hobbs	273,734	Mar. 13	639	170	23	952
Cartridge-shells. Machine for making metallic	J. H. Ring and J. A. Bradshaw	286,151	Oct. 2	453	123	25	84
Cartridge-shells. Machine for setting primers in	A. Dickerman	270,288	Jan. 9	547	161	23	117
Cartridge-wad retainer	J. T. Walker	289,191	Nov. 27	1749	486	25	837
Cartridge. Water-proof	P. Barbe	273,934	Mar. 13	895	245	23	995
Cartridges. Can for holding blasting	C. C. White	287,785	Oct. 30	2566	690	25	497
Cartridges. Charge retainer and concentrator for	R. W. Morgan	287,151	Oct. 23	1734	475	25	335
Cartridges. Holder for packing	J. Gardner	285,992	Oct. 2	261	74	25	50
Cartridges. Machine for greasing	E. Parker	286,059	Oct. 2	343	96	25	63
Cartridges. Preparing blasting	S. R. Divine and A. C. Rand	289,761	Dec. 4	484	136	25	971
Cartridges. Tubular package for blasting	N. H. Heft	278,957	June 5	424	116	23	2196
Carving-fork	C. L. Butler	278,398	May 29	2346	641	23	2058
Carving-fork guard	W. A. C. Oaks	277,052	May 8	683	178	23	1749
Carving-fork guard	S. S. Ward	279,056	June 5	546	150	23	2216
Carving-fork guard	G. H. Warren	279,294	June 12	842	233	23	2277
Case:							
See Banker's case.							
See Blacking-case.							
See Bottle-case.							
See Burial-case.							
See Butter-case.							
See Cartridge-case.							
See Cartridge-packing case.							
See Cell-case.							
See Clarionet-case.							
See Clock-case.							
See Cornice-packing case.							
See Document and file case.							
See Draining-case.							
See Dressing-case.							
See Egg cell-case.							
See Extension-case.							
See Eyeglass-case.							
See Eyeglass and spectacle case.							
See File-case.							
See Fishing-tackle case.							
See Fruit-jar-heating case.							
See Gun-case.							
See Ink-case.							
See Leather case.							
See Lock-case.							
See Lunch-case.							
See Map-case.							
See Map and chart case.							
See Musicdealer's furnishing-case.							
See Musical-instrument case.							
See Organ-case.							
See Packing-case.							
See Paper card-case.							
See Pencil-case.							
See Piano-case.							
See Pocket-case.							
See Sewing and dressing case.							
See Sewing-machine case.							
See Sheave-case.							
See Shipping-case.							
See Shot-case.							
See Show-case.							
See Show and storage case.							
See Show packing-case.							
See Spectacle-case.							
See Spool-case.							
See Telescopic case.							
See Ticket-case.							
See Toilet-case.							
See Toilet-paper pocket-case.							
See Toilet-set case.							
See Type-case.							
See Watch-case.							
See Writing-case.							
Cash and bundle carrier	C. D. Read and E. Dawson	280,863	July 10	652	184	24	121
Cash and bundle conveyer. Combined	R. F. Jones	274,000	Mar. 13	970	266	23	1008
Cash and parcel carrier	G. R. Elliott	278,658	May 29	2662	728	23	2113
Cash and parcel carrier	G. R. Elliott	278,659	May 29	2663	729	23	2113
Cash and parcel carrier and track for the same	G. B. and J. C. Coram	286,592	Oct. 16	1019	276, 277	25	202
Cash and parcel carrier. Automatic	C. Grant, Jr	287,278	Oct. 23	1898	519	25	364
Cash and parcel carrier for store-service	G. R. Elliott	283,867	Aug. 14	729	204	24	637

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cash and parcel carriers. Track for	G. P. Walker	282,416	July 31	2637	723, 724	24	481
Cash and parcel carriers. Track for	G. P. Walker	282,417	July 31	2639	724	24	481
Cash and parcel carriers. Track for	G. P. Walker	282,418	July 31	2641	724, 725	24	481
Cash and parcel carriers. Track for	G. P. Walker	282,419	July 31	2643	725	24	482
Cash and parcel carrying railway	H. A. Baker	285,374	Sept. 25	1488	419	24	1181
Cash and parcel carrying system	M. Clark	290,175	Dec. 11	984	278	25	1069
Cash-box system. Automatic	J. C. Martin	276,441	Apr. 24	2016	560	23	1596
Cash-box system. Automatic	J. C. Martin	284,456	Sept. 4	360	100	24	965
Cash-car	E. P. Osgood	290,190	Dec. 11	1002	282	25	1072
Cash-car system	B. A. Osgood	283,017	Aug. 28	1746	493	24	840
Cash-carrier	C. B. Allaire and C. M. Johnson	286,571	Oct. 16	993	269	25	197
Cash-carrier	G. A. Badger	279,688	June 19	1340	372	23	2366
Cash-carrier	H. A. Baker	280,003	June 26	1715	480	23	2438
Cash-carrier	H. A. Baker	285,375	Sept. 25	1489	420	24	1182
Cash-carrier	A. W. Bodell	278,767	June 5	111	31, 32	23	2142
Cash-carrier	O. H. Hewlett and C. A. Needham	273,841	Mar. 13	778	211	23	975
Cash-carrier	R. A. McCarty and C. M. Johnson	283,912	Aug. 28	1741	492	24	839
Cash-carrier	T. F. McGann	283,007	Aug. 14	636	180	24	620
Cash-carrier	D. C. Stover	270,261	Jan. 9	514	151	23	111
Cash-carrier	E. A. Thissell	286,504	Oct. 9	904	244	25	174
Cash-carrier	G. P. Walker	282,420	July 31	2644	725	24	482
Cash-carrier	G. P. Walker	282,421	July 31	2645	725	24	482
Cash-carrier. Automatic	J. W. Flagg	274,302	Mar. 20	1361	373	23	1083
Cash-carrier. Automatic	J. W. Flagg	277,892	May 22	1688	460	23	1936
Cash-carrier. Automatic	J. W. Flagg	283,768	Aug. 28	1575	445	24	811
Cash-carrier. Automatic	Z. S. Holbrook	282,320	July 31	2511	690	24	458
Cash-carrier. Automatic	Z. S. Holbrook	282,321	July 31	2516	690	24	459
Cash-carrier. Automatic	W. S. Lamson	284,663	Sept. 11	865	242	24	1057
Cash-carriers. Stop or brake mechanism and wire-support for	J. R. H. Hinton	286,133	Oct. 2	432	118	25	80
Cash-carriers. Drop-cradle and elevator for	J. C. Coram	278,510	May 29	2484	678	23	2083
Cash-railway	G. Willett	273,211	Feb. 27	2060	579	23	822
Cash-register	F. M. Tague and J. T. Power	283,531	Aug. 21	1280	358	24	743
Cash register and indicator	J. Ritty and J. Birch	271,363	Jan. 30	1911	553	23	385
Cash-transmitter. Pneumatic	H. Gazaille	279,090	June 5	586	160	23	2223
Cask	C. L. Crum	276,364	Apr. 24	1922	533	23	1579
Cask. Beer	H. C. Eber	289,632	Dec. 4	321	89	25	944
Casket-lid catch	E. R. Sargent	272,333	Feb. 13	926	257	23	613
Casket ornament	W. M. Smith	270,496	Jan. 9	810	236	23	166
Casket-rest	J. Carroll	279,706	June 19	1359	379	23	2369
Castanet	O. F. Westphal	273,414	Mar. 6	225	61	23	872
Castanet	E. T. Zeltner and F. Schenk	283,550	Aug. 21	1303	364	24	748
Caster	W. W. Box	275,126	Apr. 3	327	91	23	1222
Caster	C. N. Brady and J. E. Ratcliffe	290,967	Dec. 25	2041	561	25	1465
Caster	G. Custer	270,758	Jan. 16	1158	331	23	241
Caster	S. Ferris	280,164	June 26	1901	535	23	2471
Caster	J. A. Keller	285,491	Sept. 25	1628	457	24	1206
Caster	H. McDonald	282,099	July 31	2223	611	24	410
Caster	H. Ogborn	273,298	Mar. 6	71	20	23	846
Caster	O. F. Paepke	270,605	Jan. 16	965	279	23	206
Caster	O. Pederson. (Reissue)	10,331	May 22	2224	609	23	2028
Caster	O. Pederson. (Reissue)	10,332	May 22	2225	609	23	2028
Caster	H. M. Ritter	282,777	Aug. 7	364	103	24	564
Caster	S. Vanstone	277,522	May 15	1245	334	23	1853
Caster attachment to rockers	W. C. Ranney	287,721	Oct. 30	2476	667	25	480
Caster. Combined salt and pepper	J. E. Lonergan and H. K. Farrell	275,231	Apr. 3	449	124	23	1303
Caster. Cruet	H. J. Smith	284,499	Sept. 4	416	118	24	974
Caster for roller-skates and furniture	O. E. Walt	281,324	July 17	1234	341	24	231
Caster for trucks, &c	C. E. Hasenpflug	288,633	Nov. 20	1064	293	25	708
Caster frame. Table	O. F. Bacon	285,544	Sept. 25	1691	477	24	1218
Caster. Furniture	D. C. Meehan	285,912	Oct. 2	169	48	25	33
Caster. Furniture	O. Pederson. (Reissue)	10,304	Apr. 3	618	166	23	1330
Caster. Furniture	O. Pederson. (Reissue)	10,305	Apr. 3	619	166	23	1330
Caster. Furniture	C. Stengel	277,954	May 22	1757	479	23	1947
Caster. Glass	D. C. Ripley	289,027	Nov. 27	1554	428	25	802
Caster. Revolving glass	H. Semple and A. P. Ayling	290,804	Dec. 25	1828	505	25	1230
Caster. Spring	C. H. Roberts and C. J. Stevens	281,299	July 17	1199	331	24	236
Caster. Table	C. V. Fuller	280,304	June 26	2077	585	23	2502
Caster. Trunk	N. Kitt and J. Schmadel	279,397	June 12	995	276	23	2301
Caster. Trunk	S. M. Michelson	280,061	June 26	1789	502	23	2451
Caster. Trunk	A. V. Romodka	289,716	Dec. 4	437	122	25	963
Caster-wheel	A. D. Garretson	282,626	Aug. 7	185	54	24	532
Casting a plate for decorative printing, &c	J. F. Earhart	282,866	Aug. 7	471	.....	24	584
Casting apparatus. Soft-metal	R. J. Howdon	286,825	Oct. 16	1316	359	25	254
Casting attachment for open-hearth steel-melting furnaces	C. M. Ryder	277,850	May 15	1630	444	23	1920
Casting brass and other metals	H. A. Rowland	272,088	Feb. 13	628	171	23	560
Casting building-blocks. Mold for	J. J. Schillinger	277,791	May 15	1562	425, 426	23	1908
Casting car-wheels	W. Wilmington	273,658	Mar. 6	532	143	23	925
Casting car-wheels	W. Wilmington	281,422	July 17	1353	373	24	251
Casting car-wheels	W. Wilmington	283,311	Aug. 14	1004	281	24	687
Casting car-wheels	W. Wilmington	289,741	Dec. 4	464	131	25	968
Casting copper. Apparatus for	W. F. Durfee and T. Egleston	287,646	Oct. 30	2375	640, 641	25	461
Casting. Divided	J. Yocom, Jr	279,069	June 5	559	154	23	2219
Casting hollow chilled rolls. Apparatus for	J. M. Case	275,992	Apr. 17	1452	400	23	1492
Casting hollow ware	J. B. Harker	272,044	Feb. 13	573	155	23	551
Casting-mold	J. W. Galvin	284,407	Sept. 4	304	85	24	955
Casting pipe of plastic material. Mold for	D. H. Dorsett	284,191	Sept. 4	39	11, 12	24	911
Casting printers' rollers. Apparatus for	C. W. Crutsinger	274,728	Mar. 27	1907	533	23	1197

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Casting. Sand-core for	J. Houston	283,344	Aug. 14	1053	296	24	697
Casting shaft-couplings. Apparatus for	W. Tucker	272,800	Feb. 20	1532	431	23	724
Casting steel. Core for	J. A. Herrick	282,518	Aug. 7	50	15	24	309
Casting steel ingots having iron centers. Method of and mold for	J. Pedder	278,593	May 29	2577	704	23	2098
Casting stereotype-plates	C. Baechler	278,652	May 29	2655	726	23	2112
Casting vises. Metal mold for	W. E. Snediker	280,769	July 3	533	149	24	94
Castings. Annealing chilled and other iron	E. Jenkins, A. Law, and W. Price	282,728	Aug. 7	313	.....	24	555
Castings. Facing for foundry	O. E. Weatherhead	272,808	Feb. 20	1543	.....	23	726
Castings. Flask for producing chilled	J. A. Parks	278,174	May 22	2030	558	23	1995
Castings. Machine for making molds for	E. Thomas	282,588	Aug. 7	138	41	24	524
Castings. Making molds for steel	B. F. Watkins	281,212	July 10	1083	.....	24	198
Castings. Making steel	W. Hainsworth	284,004	Aug. 28	1881	528	24	863
Castings. Manufacture of steel	G. W. Francis	276,018	Apr. 17	1482	.....	23	1497
Castings or carvings. Imitation of metal	G. B. Dexter	270,580	Jan. 16	928	268	23	199
Castings. Pattern and flask for producing	S. C. Tatum	282,403	July 31	2617	719	24	477
Castings. Pattern for producing	J. E. Donovan	275,166	Apr. 3	368	101	23	1290
Catamenial sack	L. Lange	282,201	July 31	2370	652	24	433
Catarrh remedy	W. Wohltmann	276,119	Apr. 17	1611	.....	23	1518
Cattle-guard	D. W. Granger	270,054	Jan. 2	266	77	23	54
Cattle on vessels. Fittings for carrying	T. Utley	286,976	Oct. 16	1507	414	25	286
Cattle-tie	L. M. Hawes	273,986	Mar. 13	950	261	23	1004
Ceiling	W. S. Cogswell	282,167	July 31	2326	641	24	426
Ceiling. Fire-proof	C. J. Bandman	270,623	Jan. 16	982	284	23	209
Ceiling. Fire-proof	A. W. Cordes	272,657	Feb. 20	1358	381	23	692
Ceiling. Fire-proof	A. W. Cordes	272,658	Feb. 20	1358	381	23	693
Ceiling. Fire-proof	A. W. Cordes	275,151	Apr. 3	353	97	23	1287
Ceiling. Fire-proof	P. J. L. De Rache	281,467	July 17	1413	388	24	261
Ceiling. Fire-proof	E. V. Johnson	270,677	Jan. 16	1055	302	23	222
Ceiling. Fire-proof	J. E. Ware	277,814	May 15	1585	433	23	1912
Ceiling or floor. Fire-proof	J. H. Dreyer	273,825	Mar. 13	761	206	23	972
Ceilings. Hollow-tile arch for	P. B. Wight	285,452	Sept. 25	1585	445	24	1198
Cell-case	G. L. Jaeger	282,899	Aug. 7	507	142	24	590
Cell-cases. Making	E. B. Stocking	276,497	Apr. 24	2085	579, 580	23	1607
Cellars for cooling and ventilation. Construction of	E. Schröder	290,483	Dec. 18	1401	387	25	1149
Celluloid, &c. Apparatus for molding	I. S. Hyatt	275,216	Apr. 3	430	117, 118	23	1300
Celluloid, &c. Apparatus for producing rods or tubes of	A. Olszewski	278,667	May 29	2671	730, 731	23	2115
Celluloid collars, cuffs, &c. Manufacture of	I. S. Hyatt	276,248	Apr. 24	1766	492	23	1553
Celluloid, &c. Machine for breaking or cutting up sheets of	J. Everding	286,535	Oct. 9	941	254	25	182
Celluloid, &c. Manufacturing sheets of	I. S. Hyatt	275,215	Apr. 3	429	.....	23	1300
Celluloid, &c. Mold for forming articles of	A. B. Dias	278,321	May 29	2243	616	23	2040
Celluloid, &c. Nozzle for making rods and tubes from	J. B. Edson	277,694	May 15	1450	391	23	1887
Celluloid, &c. Process of and apparatus for lining hollow articles with	M. C. Lefferts	281,529	July 17	1487	408	24	274
Celluloid, &c. Process of and apparatus for molding hollow articles from	J. R. Furman	282,451	July 31	2687	737	24	489
Celluloid, &c. Press or mold for coating articles with	J. W. Hyatt	280,745	July 3	494	139, 140	24	88
Celluloid, &c., with woven or knitted fabric, &c. Combining	M. P. Bogert	270,538	Jan. 9	873	254	23	181
Cellulose from wood. Preparing	A. Mitscherlich	284,319	Sept. 4	198	56	24	938
Cement. Building	J. E. Trask	271,950	Feb. 6	443	.....	23	519
Cement compound	W. J. Budington	281,965	July 24	2054	.....	24	376
Cement compound. Hydraulic	E. J. De Smedt	275,369	Apr. 10	658	.....	23	1347
Cement. Fluid	T. J. Mayall	286,040	Oct. 2	321	.....	25	59
Cement for the manufacture of memorandum blocks and tablets. Rubber	W. E. Doud	285,980	Oct. 2	250	.....	25	48
Cement. Hydraulic	J. Murphy	270,097	Jan. 2	310	.....	23	63
Cement. Hydraulic Portland	W. Jones	287,941	Nov. 6	191	.....	25	541
Cement. Manufacture of	L. Roth	270,608	Jan. 16	967	.....	23	206
Cement. Manufacture of Portland	E. J. De Smedt	274,734	Mar. 27	1913	.....	23	1188
Cement. Manufacture of Portland	E. J. De Smedt	274,735	Mar. 27	1915	.....	23	1188
Cement. Manufacturing Portland	E. J. De Smedt	274,288	Mar. 20	1342	.....	23	1060
Cement. Manufacturing Portland	E. J. De Smedt	279,357	June 12	932	.....	23	2291
Cement mixture for fire-proof and other structures. Plastic	E. H. Rust	289,451	Dec. 4	93	.....	25	903
Cement pipe. Mold for manufacturing	N. W. Stowell. (Reissue)	10,409	Nov. 20	1473	407	25	782
Cementing composition	W. W. Campbell	278,681	June 5	6	.....	23	2126
Center-board	W. O. Christensen	276,353	Apr. 24	1910	530	23	1577
Center-board	J. E. Couch	275,361	Apr. 10	646	174	23	1345
Center-board	H. C. Goodrich	276,026	Apr. 17	1493	411	23	1498
Center-board. Folding	W. Childs	278,776	June 5	124	35	23	2145
Center-board for boats	J. E. Couch	271,607	Feb. 6	29	7	23	445
Center-board for boats	E. L. Sibley	282,386	July 31	2597	713	24	473
Center-board for sailing-vessels	F. Joyner	284,130	Aug. 28	2037	566	24	890
Center-board. Vessel	G. S. Bell	277,406	May 8	1101	295	23	1822
Centering device	J. F. Whitney	272,995	Feb. 27	1789	501	23	774
Centering-gage	A. Sequeira	271,746	Feb. 6	193	54	23	473
Centering shafts, axles, &c. Machine for	J. N. Kaufholz	272,704	Feb. 20	1412	396	23	702
Centralizing device	L. H. Wattles	272,107	Feb. 13	657	178	23	565
Centrifugal machine	O. S. Andersen and T. T. A. Hansen	272,185	Feb. 13	744	205	23	580
Centrifugal machine	A. A. Goubert	274,187	Mar. 20	1209	332, 333	23	1057
Centrifugal machine	A. A. Goubert	280,465	July 3	166	45	24	30
Centrifugal machine	J. E. Meyer	273,578	Mar. 6	439	118	23	909
Centrifugal machine	G. M. Newhall	278,260	May 22	2149	590	23	2015
Centrifugal machine	G. L. Shorey	288,129	Nov. 6	416	118	25	580
Centrifugal machine	C. Von Bechtolsheim	276,985	May 1	586	154	23	1726
Centrifugal machine	M. Wanner	274,064	Mar. 13	1045	288	23	1021

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Centrifugal machine	D. M. Weston	275,874	Apr. 17	1317	363	23	1467
Centrifugal machine	D. M. Weston	275,875	Apr. 17	1321	364	23	1468
Centrifugal machines. Crushing attachment for	E. C. Knight	272,710	Feb. 20	1417	397	23	703
Centrifugal reel	J. J. Walterhouse	274,234	Mar. 20	1273	352	23	1069
Centrifugal reel	L. W. Pruss	283,814	Aug. 28	1631	459, 460	24	819
Centrifugal separator	W. P. Northway	288,257	Nov. 13	581	161	25	617
Ceramics. Ornamentation of	A. L. Gorham	276,389	Apr. 24	1958	542	23	1585
Cereals. Curing	G. Davis	284,284	Sept. 4	156	.....	24	931
Chain	C. G. Anderson	271,186	Jan. 23	1682	485	23	336
Chain	C. G. Anderson	290,832	Dec. 25	1863	514	25	1236
Chain	W. H. Dickey	282,177	July 31	2343	645	24	432
Chain	W. T. Foley	274,752	Mar. 27	1940	539	23	1192
Chain	B. A. Legg	282,536	Aug. 7	74	21	24	513
Chain-bar, &c	E. S. Johnson	272,444	Feb. 20	1080	304	23	644
Chain-bar	F. E. Sturdy	281,646	July 17	1631	446	24	297
Chain bar. Jewelry	G. E. Adams	288,392	Nov. 13	760	207	25	648
Chain bar. Watch	J. Hoagland	271,069	Jan. 23	1536	443	23	312
Chain bar. Watch	F. T. Pearce and J. Hoagland	284,887	Sept. 11	890	250	24	1063
Chain cap. Roller	H. A. Church	289,618	Dec. 4	304	85	25	941
Chain-conveyer	J. Kelley	273,741	Mar. 13	646	172	23	953
Chain cutter	F. L. Magaw	279,781	June 19	1439	403	23	2384
Chain. Dredger	H. B. Angell	278,482	May 29	2448	668	23	2076
Chain. Drive	A. Assmus	280,780	July 10	559	157	24	106
Chain. Drive	W. D. Ewart	280,729	July 3	469	134	24	84
Chain. Drive	N. W. Holt	270,433	Jan. 9	740	217	23	154
Chain. Drive	E. L. Howe	273,845	Mar. 13	783	212	23	976
Chain. Drive	J. Patzem and L. Wagner	285,430	Sept. 25	1561	439	24	1193
Chain. Drive	T. Shields	286,338	Oct. 9	711	190	25	139
Chain. Drive	C. A. Weller	282,689	Aug. 7	258	75	24	544
Chain-fastener	J. H. Armstrong	290,833	Dec. 25	1863	515	25	1236
Chain for bracelets, &c	C. A. Müller	287,564	Oct. 30	2256	612	25	440
Chain. Harness breast	J. C. Covert	274,723	Mar. 27	1903	531	23	1186
Chain-link	S. Simons and O. Scofield	271,141	Jan. 23	1618	465	23	336
Chain link. Drive	A. S. Held	273,732	Mar. 13	638	170	23	951
Chain link. Drive	A. S. Held	281,995	July 24	2083	572	24	381
Chain-links from coiled wire. Machine for making	F. P. Barney	283,556	Aug. 21	1309	366, 367	24	749
Chain. Neck or bracelet	D. S. Spaulding	290,278	Dec. 18	1124	316	25	1100
Chain or belt. Driving	L. H. Goodwin	279,742	June 19	1397	390	23	2376
Chain. Ornamental	F. Becker	276,338	Apr. 24	1895	526	23	1574
Chain. Ornamental	N. P. Carter	273,025	Feb. 27	1827	512	23	781
Chain. Ornamental	S. Davidson	282,280	July 31	2457	677	24	449
Chain. Ornamental	J. Etzensperger	281,853	July 24	1916	523	24	352
Chain. Ornamental	F. Fontnean	281,688	July 24	2077	570	24	381
Chain. Ornamental	H. M. Herring	273,733	Mar. 13	639	170	23	952
Chain. Ornamental	W. J. Johnson	290,688	Dec. 25	1673	461	25	1202
Chain. Ornamental	J. T. Joyce	290,643	Dec. 18	1610	443	25	1184
Chain. Ornamental	S. L. Lederer	273,744	Mar. 13	650	173	23	954
Chain. Ornamental	J. B. Peck	278,454	May 29	2419	650	23	2071
Chain. Ornamental	C. H. Ware	283,542	Aug. 21	1291	361	24	745
Chain. Ornamental	C. H. Ware	289,874	Dec. 11	630	175	25	1003
Chain. Pitch	A. H. Wallis. (Reissue)	10,413	Nov. 27	1973	548	25	879
Chain. Roller	W. Ballou	277,194	May 8	861	229	23	1779
Chain. Roller	H. F. Barrows	277,976	May 22	1784	487	23	1952
Chain. Roller	W. M. Patt	290,798	Dec. 25	1822	502	25	1229
Chain snap. Neck	L. F. Cahn	275,584	Apr. 10	933	253	23	1394
Chain-swivel	J. F. Simms and J. W. Cody	271,375	Jan. 30	1923	556	23	387
Chain swivel-hook. Ornamental	C. E. Richards	274,033	Mar. 13	1006	276	23	1014
Chain-swivel loops. Machine for making	J. E. Walcott	273,919	Mar. 13	876	237, 238	23	992
Chain units. Machine for making roller	S. M. Field and W. Halkyard. (Reissue.)	10,326	May 15	1654	450, 451	23	1924
Chains. Cog-link for	J. S. Aydelott	270,723	Jan. 16	1113	318	23	233
Chains. Device for securing binding	N. Smith	276,295	Apr. 24	1825	508	23	1563
Chains. Machine for making ornamental	R. S. Matteson	274,955	Apr. 3	91	25, 26	23	1241
Chains. Manufacture of	E. Onry	273,139	Feb. 27	1979	554	23	807
Chains. Manufacture of ornamental	D. D. Codding	279,340	June 12	915	255	23	2288
Chains. Toggle for boom	J. B. Jonis	286,544	Oct. 9	954	257	25	184
Chair: *See* Adjustable chair. Barber's chair. Camp-chair. Child's chair. Child's dining-chair. Convertible chair. Corn-husking chair. Dental chair. Folding chair. Folding, bath, and invalid chair. Gymnastic chair. Invalid-chair. Locomotive-chair. Nursery-chair. Opera-chair. Oscillating chair. Photographer's chair. Railway-chair. Railway-rail chair. Reclining-chair. Recumbent chair. Rocking-chair. Rocking, reclining, and easy chair. School-chair. Steamer-chair. Surgeon's operating-chair. Surgical and invalid chair. Tilting and revolving chair. Turning chair.							
Chair	J. T. C. Cove	281,617	July 17	1600	437	24	292
Chair	A. W. Eichelberger	281,038	July 10	862	240	24	160
Chair	H. S. Hale	275,823	Apr. 17	1254	345	23	1456
Chair	H. S. Hale	277,272	May 8	947	254	23	1795
Chair	H. A. Isberg	283,111	Aug. 14	762	215	24	643
Chair	T. G. Maguire	277,759	May 15	1528	414, 415	23	1901

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Chair	C. P. Nash	275,222	Apr. 3	469	131	23	1306
Chair	C. P. Nash	277,329	May 8	1018	273	23	1807
Chair	W. H. Paulding	272,579	Feb. 20	1258	351	23	675
Chair	C. W. Reeves	288,737	Nov. 20	1201	329	25	730
Chair	R. Richardson	272,901	Feb. 27	1687	472	23	757
Chair	A. B. Stevens	270,144	Jan. 2	373	108, 109	23	76
Chair	W. A. Wright	281,424	July 17	1355	373, 374	24	251
Chair and bed. Combined	S. A. D. Clark	276,774	May 1	317	83	23	1681
Chair and cutting-table. Combined	B. A. Hathaway	272,434	Feb. 20	1071	302	23	642
Chair, cot, and bed. Combined	S. McClelland	282,343	July 31	2546	698	24	464
Chair-fastening device	T. M. Blackstock	272,406	Feb. 20	1038	291	23	636
Chair-frames. Device for holding and forming	J. L. May	274,803	Mar. 27	1999	556	23	1203
Chair, knee, and truss bracket. Combined	J. H. Bonn and A. De Bevoise	282,697	Aug. 7	267	77	24	546
Chair-pedestal	D. McKinnon	283,131	Aug. 14	782	220	24	646
Chair-seat	P. E. Chappell	277,544	May 15	1274	341	23	1857
Chair-seat	I. D. Comstock	270,748	Jan. 16	1147	328	23	239
Chair-seat	I. D. Comstock	270,749	Jan. 16	1148	328	23	239
Chair-seat	M. V. B. Howe	275,383	Apr. 10	682	181	23	1351
Chair-seat	M. V. B. Howe	290,684	Dec. 25	1921	530	25	1246
Chair-seat spring	W. P. Miller	270,093	Jan. 2	306	91	23	62
Chair-seats. Machine for sandpapering	M. V. B. Howe	275,385	Apr. 10	684	181	23	1351
Chair-seating needle	C. R. Long	278,982	June 5	447	122, 123	23	2199
Chair-support. Adjustable	W. Farmer	280,593	July 3	308	85, 86	24	55
Chair-support and footstool	M. O. Baldwin	274,877	Mar. 27	2094	581	23	1217
Chairs. Adjustable head-rest for	W. F. Wellman	283,443	Aug. 21	1181	332	24	725
Chairs. Arm for folding steamer-	F. G. Johnson and J. H. Hayward	271,248	Jan. 30	1750	506	23	357
Chairs, settees, car-seats, &c. Seat and back of	J. H. Woodman	271,757	Feb. 6	206	58	23	476
Chalk. Device for holding marking-	J. Taylor	272,986	Feb. 27	1779	498	23	772
Chamber and slop bucket. Combined	A. G. Mack	289,011	Nov. 27	1528	422	25	797
Chamber-pot and cover	J. Finsterer	283,588	Aug. 21	1350	377	24	756
Chamber pot or commode	H. Loth	288,824	Nov. 20	1301	356, 357	25	749
Chamfering-machine	T. Tobin	276,927	May 1	505	131	23	1713
Chandelier	R. B. Perkins	284,890	Sept. 11	892	251	24	1063
Chandelier	H. Phillips	273,145	Feb. 27	1979	556	23	808
Chandelier. Extension-	J. Brannen	285,963	Oct. 2	233	66	25	45
Chandelier. Extension-	J. T. Bruen	276,130	Apr. 17	1623	447	23	1520
Chandelier. Extension-	F. H. Chapman	271,420	Jan. 30	1975	571	23	397
Chandelier. Extension-	L. Hornberger	290,883	Dec. 25	1920	530	25	1246
Chandelier. Extension-	D. W. Parker	275,515	Apr. 10	852	230, 231	23	1380
Chandelier. Extension-	D. W. Parker	277,057	May 8	686	179	23	1749
Chandelier. Extension-	D. W. Parker	278,359	May 29	2301	630	23	2050
Chandelier. Extension-	R. B. Perkins	285,668	Sept. 25	1837	524	24	1245
Chandelier. Extension-	H. O. Winslow	290,618	Dec. 18	1579	434	25	1179
Chandelier extension-fixture	L. F. Griswold and F. H. Chapman	282,628	Aug. 7	186	54	24	532
Chandelier extension-fixture	R. A. Wooding	281,656	July 17	1649	450	24	300
Chandelier-holding attachment	A. Reed	271,739	Feb. 6	182	49	23	472
Chandelier suspension-hook	W. E. Hammond	280,611	July 3	327	92	24	58
Chandeliers. Suspension-joint for	J. Klein	285,277	Sept. 18	1371	386	24	1155
Change-gate for public conveyances	G. Beadle	273,337	Mar. 6	125	35	23	855
Channel-flaps. Machine for flattening and smoothing	G. W. Day	286,790	Oct. 16	1270	344	25	245
Channeling and grooving knife	J. N. Whitman and T. A. Taylor	277,092	May 8	736	193	23	1758
Channeling and sole shaping or rounding machine	S. F. Packard	277,056	May 8	686	179	23	1749
Channeling-machine groover	J. N. Whitman and T. A. Taylor	277,093	May 8	737	193	23	1758
Channeling rivers and other navigable streams	D. Spangler	275,952	Apr. 17	1402	387	23	1482
Channels of rivers, &c. Deepening the	J. F. Spearing	275,534	Apr. 10	875	236, 237	23	1383
Charcoal and kiln therefor. Manufacturing	H. M. Pierce	284,059	Aug. 28	1940	542	24	874
Charcoal-furnace	J. Burt	276,222	Apr. 24	1734	480	23	1548
Charcoal-kiln	C. S. Nellis	283,643	Aug. 21	1407	394, 395	24	767
Charcoal-kiln	H. M. Pierce	272,766	Feb. 20	1489	419	23	716
Charcoal. Manufacture of	H. M. Pierce	278,731	June 5	71	22	23	2136
Charcoal. Manufacturing	J. A. Mathieu	288,716	Nov. 20	1167	.....	25	724
Charcoal. Manufacturing	H. M. Pierce	272,976	Feb. 27	1770	495	23	771
Charm-compass	J. R. Hawley	280,817	July 10	599	167	24	112
Charm-compass frame	R. A. Kipling	272,265	Feb. 13	846	235	23	599
Charring timber. Apparatus for	J. D. Stanley	282,395	July 31	2607	716	24	475
Chart. Arithmetical	J. B. Finch	275,475	Apr. 10	806	218	23	1372
Chart. Dress-	L. A. Call	281,666	July 24	1666	455	24	309
Chart. Dress-	H. Propach	278,180	May 22	2035	559	23	1996
Chart for cutting out shirts. Pattern-	J. Snow	273,626	Mar. 6	495	133	23	919
Chart-hanging	E. Shepard	286,736	Oct. 16	1906	325	25	234
Chart-holder	D. Yarian	281,601	July 17	1577	431	24	287
Check. Baggage-	C. Sears	281,733	July 24	1758	478	24	324
Check. Baggage-	J. A. Thompson	281,163	July 10	1013	283	24	186
Check. Baggage-	W. W. Wilcox	280,427	July 3	112	30	24	21
Check-book	M. Campbell	273,254	Mar. 6	15	5	23	837
Check-book	N. A. Gibbs	281,682	July 24	1687	459	24	312
Check-book. Office	C. E. Sprague	282,393	July 31	2606	716	24	475
Check-box	D. Lubin	285,495	Sept. 25	1633	458	24	1207
Check, draft, note, &c	H. Bodey	281,006	July 10	862	229	24	152
Check hook or terret	T. Garrick	275,817	Apr. 17	1246	343	23	1455
Check or valve	W. H. Moseley	286,472	Oct. 9	862	234	25	167
Check-registering and printing apparatus	G. W. Kendall and C. Kruse	286,019	Oct. 2	293	82	25	55
Check-row cord	D. C. Stover	272,916	Feb. 27	1701	476	23	759
Check-row cord	D. C. Stover	277,956	May 22	1759	479	23	1947
Check-row cords. Anchor for	I. B. Curtis	273,263	Mar. 6	23	8	23	838
Check-row cords. Anchor for	L. Eberhart	281,473	July 17	1420	389	24	262

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Check-row dropper	J. H. Warren	290,950	Dec. 25	2009	554	25	1261
Check-row lines. Anchor for	M. Barnes	289,372	Dec. 4	3	1	25	887
Check-row-wire reel	G. W. and F. P. Murphey	286,218	Oct. 9	535	146	25	109
Check-row-wire reeling and laying device	A. Y. Chamberlin	273,953	Mar. 13	917	251	23	998
Check-row wires. Stop for	A. M. Sackett	284,240	Sept. 4	108	29	24	922
Check-rower	J. Brickett	284,603	Sept. 11	543	154	24	1002
Check-rower	F. M. Elliott	288,040	Nov. 6	315	89	25	561
Check-rower	D. W. Jacoby	289,913	Dec. 11	690	189	25	1012
Check-rower	T. A. Lanscha	273,370	Mar. 6	174	48	23	864
Check-rower	F. Miller	287,953	Nov. 6	205	59	25	543
Check-rower	J. Putnam and F. E. Berry	285,764	Sept. 25	1965	557	24	1266
Check-rower	L. Scofield	283,425	Aug. 21	1162	327	24	721
Check-rower	A. W. Thompson	277,856	May 15	1638	446	23	1921
Check-rower	A. W. Thompson	289,468	Dec. 4	112	33	25	906
Check-rower	T. Whitaker and S. D. Moore	273,789	Mar. 13	715	193, 194	23	965
Check-rower	L. A. Williams	271,756	Feb. 6	206	57	23	475
Check-rower and corn-planter. Combined	F. B. Tait and J. Gross	287,976	Nov. 6	234	66, 67	25	548
Check-rower and drill	D. G. Shaner	283,824	Aug. 28	1641	462	24	891
Check-rower and planter	C. P. Hanson	270,428	Jan. 9	732	215	23	152
Check-rower attachment	F. L. Brewer	277,673	May 15	1427	385	23	1883
Check-rower cord	H. Farmer	274,579	Mar. 27	1741	483	23	1156
Check-rower. Corn	J. W. Smith	270,497	Jan. 9	811	236	23	168
Check-rower. Smooth-rope and knotted-wire	D. Spooner	278,622	May 29	2617	714	23	2106
Check. Watch-	S. H. Fuller	284,623	Sept. 11	568	160	24	1006
Checks and other negotiable papers. Blank for	C. H. Uhler	286,159	Oct. 2	462	126	25	86
Checking the arrival of employés. Apparatus for	W. M. Llewellin	275,229	Apr. 3	445	124	23	1302
Cheese-hoop	G. W. Hey	277,838	May 15	1617	441	23	1917
Cheese-making apparatus	S. Jenks and H. W. Millar	283,250	Aug. 14	933	260	24	673
Cheese-making apparatus	S. Jenks and H. W. Millar	283,251	Aug. 14	935	260, 261	24	673
Cheese-press	G. W. Hey	277,839	May 15	1619	441	23	1918
Cheese-safe	W. H. Gordon and P. J. Boost	272,875	Feb. 27	1650	462	23	751
Cheese-safe	W. H. Gordon and P. J. Boost	274,119	Mar. 20	1128	311	23	1042
Cheese-vat	S. B. Ferguson	285,803	Oct. 2	25	9	25	7
Cheese-vat	G. H. Goetchins	281,053	July 10	880	245	24	163
Chenile fringe	J. Loeb	281,534	July 17	1492	410	24	275
Chenille ornament	G. Dietzel and S. Green	282,709	Aug. 7	295	83	24	551
Chenille weft and manufacturing the same	W. Adam	289,203	Nov. 27	1766	490	25	840
Cherry-stoner	J. G. Baker	276,331	Apr. 24	1868	524	23	1572
Cherry-stoner	D. S. Buck	275,353	Apr. 10	636	170	23	1343
Chest: *See* Flour-chest. Ice-chest.							
Chest-protector	W. H. Purcell	288,857	Nov. 20	1342	368	25	756
Child's chair	L. Schmetzer	278,826	June 5	204	60	23	2158
Child's dining-chair	W. T. Miles	275,508	Apr. 10	842	228	23	1378
Child's money bank or box	D. R. Goudie	282,978	Aug. 14	592	167	24	613
Chill	H. R. Allen	285,779	Oct. 2	2	1	25	3
Chimney and ventilating flue	W. P. Esterbrook	280,024	June 26	1749	491	23	2443
Chimney-cap	B. P. Field	289,636	Dec. 4	329	91	25	945
Chimney-cap	F. H. Leonard	287,553	Oct. 30	2243	609	25	437
Chimney-cap	R. J. Smith	282,392	July 31	2605	715	24	475
Chimney-cap	J. H. Watt	276,102	Apr. 17	1586	437	23	1514
Chimney cap or ventilator	W. D. Bartlett	272,517	Feb. 20	1176	329	23	660
Chimney cowl and ventilator	J. F. Pond	290,266	Dec. 18	1110	311	25	1098
Chimney-funnels. Safety device and cut-off for	C. Woodbury	278,069	May 22	1893	519	23	1971
Chimney or flue	T. Rowan	283,025	Aug. 14	660	186	24	625
Chimney. Portable	L. E. Clawson	285,112	Sept. 18	1181	331	24	1120
Chimney-protector	J. G. Keller	276,423	Apr. 24	1998	553	23	1592
Chimney-sweeper	J. W. Resor	282,775	Aug. 7	362	102	24	564
Chimney-top	W. Faulstich	286,597	Oct. 16	1029	278	25	203
Chimney-top	A. Rosenstar	281,645	July 17	1630	445	24	297
Chimney-ventilator and heater. Combined	F. E. Ormsby	273,589	Mar. 6	453	122	23	912
Chinoline. Preparing oxyhydro-ethyl	O. Fischer	273,498	Mar. 6	326	.....	23	890
Chinoline. Preparation of oxyhydro-methyl	O. Fischer	276,796	May 1	343	.....	23	1686
Chipping-machine	J. Boyer	277,448	May 15	1159	311	23	1838
Chisel holder. Mortising-	G. W. Amesbury	275,346	Apr. 10	625	167	23	1341
Chloride-of-silver battery	P. S. Hayes	282,634	Aug. 7	194	56	24	534
Chlorine and sodium. Process of and apparatus for obtaining	A. L. Nolf	271,906	Feb. 6	388	107	23	509
Chopper: *See* Cotton-chopper. Meat-chopper. Cotton-stalk chopper.							
Chopper and cultivator. Combined	E. A. Daniel	287,251	Oct. 23	1865	510	25	357
Chopping-knife	J. T. Foster	288,044	Nov. 6	321	90	25	562
Christmas-tree candle-holder	F. Arzt	286,572	Oct. 16	995	269	25	197
Christmas-tree candle-holder	W. M. Fischer	270,771	Jan. 16	1171	335	23	243
Christmas-tree holder	H. Henneberg	283,392	Aug. 21	1118	316	24	714
Christmas-tree stand	G. Pannster	280,851	July 10	638	180	24	119
Chronometer-escapement	A. W. Kientoff	283,349	Aug. 14	1059	297	24	698
Chronometer-escapement	L. F. Munger	289,551	Dec. 4	225	63	25	926
Chuck	H. H. Barnard	271,208	Jan. 30	1808	495	23	349
Chuck	J. A. Peer	282,765	Aug. 7	353	99	24	562
Chuck	J. Sleeth and F. M. Lucas	271,941	Feb. 6	431	118	23	516
Chuck. Drill-	C. Morrill	274,135	Mar. 20	1146	316	23	1045
Chuck. Drill-	I. G. Todd	282,015	July 24	2110	578	24	385
Chuck. Engraver's	G. H. Strong	270,615	Jan. 16	973	281	23	207
Chuck for holding rose-cutters or similar tools	W. Lorenz	283,124	Aug. 14	776	218	24	645
Chuck for planing valves	D. W. Pedrick	284,227	Sept. 4	92	25	24	920
Chuck. Lathe-	C. W. Gray	286,426	Oct. 9	813	220	25	158
Chuck. Lathe-	W. W. Lee	277,908	May 22	1704	465	23	1939
Chuck. Lathe-	C. H. Reid	279,017	June 5	494	134	23	2207
Chuck. Lathe-	J. N. Skinner	269,889	Jan. 2	81	24	23	18
Chuck. Planer-	W. Porter	287,160	Oct. 23	1746	478	25	337

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Pages.
Chuck. Planer	J. P. Wright	286,362	Oct. 9	737	197 198	25	144
Chuck. Self-oiling drill	A. Söderström	288,957	Nov. 20	1462	404	25	779
Chuck. Tenon and turning	B. A. Whitsett	271,753	Feb. 6	203	57	23	475
Churn	T. F. Ayres	274,252	Mar. 20	1298	357	23	1073
Churn	E. Bach	275,747	Apr. 10	1145	314	23	1429
Churn	H. Baldridge	277,103	May 8	747	196	23	1760
Churn	A. C. Ball and B. H. Tripp	271,566	Jan. 30	2164	623	23	429
Churn	G. R. Barnes	272,516	Feb. 20	1175	328	23	660
Churn	H. T. Brantley	289,968	Dec. 11	740	209	25	1024
Churn	M. A. Briggs	278,391	May 29	2338	639	23	2057
Churn	D. T. Bruck	282,047	July 31	2154	591	24	399
Churn	J. W. Bruton	283,323	Aug. 14	1019	285	24	690
Churn	G. Bull	277,830	May 15	1606	438	23	1915
Churn	S. Collins	278,098	May 22	1930	529	23	1978
Churn	A. R. Dillehay	289,837	Jan. 2	23	7	23	7
Churn	J. H. Duke	283,085	Aug. 14	727	204	24	637
Churn	S. E. Dunn	271,818	Feb. 6	284	78	23	491
Churn	J. L. Ellis	273,671	Mar. 6	554	147	23	928
Churn	E. German	284,625	Sept. 11	569	161	24	1007
Churn	W. and J. Hurst	273,281	Mar. 6	42	13	23	842
Churn	H. Kean	276,598	May 1	70	19	23	1640
Churn	W. W. Kitchen	282,199	July 31	2367	651	24	432
Churn	E. B. Lewis	277,752	May 15	1518	419	23	1899
Churn	C. Massie and J. Legan	275,059	Apr. 3	232	63	23	1365
Churn	E. N. McKimm	279,100	June 5	606	165	23	2227
Churn	H. W. Merritt	281,906	July 24	1983	543	24	364
Churn	S. L. Nelson	274,360	Mar. 20	1436	394	23	1097
Churn	D. K. Pomeroy	271,266	Jan. 30	1775	515	23	360
Churn	M. Reeves	288,738	Nov. 20	1202	329	25	730
Churn	J. N. Renfro	282,224	July 31	2394	659	24	438
Churn	F. M. Richardson	282,669	Aug. 7	232	67	24	540
Churn	E. J. Rowe, R. Holmes, and J. Dawson.	271,130	Jan. 23	1607	462	23	394
Churn	D. A. Schoch and H. W. Bolender	279,447	June 12	1051	290	23	2310
Churn	Z. T. Slusher	283,033	Aug. 14	669	188	24	626
Churn	W. F. Southard	282,232	July 31	2405	661	24	440
Churn	W. H. Sterns	285,174	Sept. 18	1257	354	24	1133
Churn	V. Stirewalt	276,922	May 1	496	129 130	23	1712
Churn	J. Swenson	283,302	Aug. 14	993	278	24	685
Churn	W. M. Taylor and I. P. Merrill	289,786	Dec. 4	512	142	25	975
Churn	J. R. Thompson	271,544	Jan. 30	2137	615	23	425
Churn	J. Tweedy	282,935	Aug. 7	542	153	24	597
Churn	E. B. Way	286,510	Oct. 9	909	246	25	175
Churn	W. Werfield	277,091	May 8	735	193	23	1758
Churn	L. B. Wilson	280,890	July 10	681	192	24	127
Churn	D. B. Wooster	282,143	July 31	2293	629	24	421
Churn	N. L. Rigby	274,383	Mar. 20	1463	401	23	1102
Churn and butter-worker	M. L. Scivalley	269,964	Jan. 2	169	49	23	35
Churn and domestic motor	S. H. Cochran	285,973	Oct. 2	243	69	25	46
Churn and like apparatus for use in the manufacture of artificial butter, &c.	H. Smith	284,500	Sept. 4	417	118	24	974
Churn and washing-machine motor	M. D. Chapin	277,001	May 8	613	161	23	1737
Churn-cover	C. Berst	271,301	Jan. 30	1821	528	23	369
Churn-dasher	D. R. Shriver	285,694	Sept. 25	1871	533	24	1251
Churn-dasher	J. W. Heldreth and E. W. Umberger	271,705	Feb. 6	141	39	23	464
Churn mechanism	A. Green	290,639	Dec. 18	1606	441	25	1183
Churn-motor	A. McIlravy	285,291	Sept. 18	1385	391	24	1158
Churn-motor	N. Mosher	275,691	Apr. 10	1073	293	23	1418
Churn-motor	W. H. O'Bannon and J. J. Snider	285,504	Sept. 25	1643	462	24	1209
Churn-motor	O. E. Perry	290,799	Dec. 25	1823	502	25	1229
Churn-motor	G. B. and G. H. Smith	282,389	July 31	2602	715	24	474
Churn or mixer for use in the manufacture of artificial butter, &c.	S. H. Cochran	285,974	Oct. 2	244	69	25	47
Churn-power	J. M. Furlong	276,799	May 1	346	92	23	1687
Churn-power	J. B. Snider	284,769	Sept. 11	757	210	24	1038
Chute. Ash	G. A. Fisher	273,499	Mar. 6	327	89	23	890
Chute. Coal	I. Burnett and J. E. Clifton	270,736	Jan. 16	1131	324	23	236
Chute. Coal	H. Clausen and T. Staeber	280,133	June 26	1870	527	23	2466
Chute. Coal	J. Vinson	270,919	Jan. 23	1352	390	23	283
Chute. Coal and ore	G. H. White	271,386	Jan. 30	1935	560	23	389
Chute used in loading and unloading apparatus. Flexible	A. D. Fox	286,193	Oct. 9	507	140	25	104
Cider and wine press	S. M. Brown	280,570	July 3	278	76	24	50
Cider-mill	J. W. Allmon, J. H. Wommack, and W. M. Highfill.	290,657	Dec. 25	1631	449	25	1195
Cider-mill	W. H. Hull and D. L. Smoke	276,413	Apr. 24	1985	550	23	1590
Cider mill and press	J. U. Bendure	274,432	Mar. 20	1526	420	23	1112
Cider mill and press. Combined	G. D. Cooper	286,265	Oct. 9	594	163	25	119
Cider-press	J. L. Barnes	277,195	May 8	861	229	23	1779
Cider-press	J. L. Wilcox	271,387	Jan. 30	1936	560	23	389
Cigar	M. Asher and G. Minck	288,151	Nov. 6	440	124	25	584
Cigar and cigarette holder	J. Fletcher	282,183	July 31	2349	647	24	429
Cigar-box	R. Luckner, Sr	270,683	Jan. 16	1064	305	23	223
Cigar-bunching machine	F. E. Kelsey	281,517	July 17	1474	405	24	279
Cigar-bunching machine	G. Moebs	288,355	Nov. 13	709	194	25	639
Cigar clipper and perforator. Combined	C. Klaiber and A. Currier	289,351	Nov. 27	1939	539	25	874
Cigar-clipper. Pocket	F. G. Johnson	274,201	Mar. 20	1224	337	23	1060
Cigar coloring and flavoring machine	N. Du Brul	274,472	Mar. 27	1584	435	23	1130
Cigar coloring and flavoring machine	E. Hadra	275,646	Apr. 10	1023	276	23	1409
Cigar-coloring machine	G. B. French	286,412	Oct. 9	796	215	25	155
Cigar-coloring machine	G. B. French	286,413	Oct. 9	797	215	25	155
Cigar-coloring machine	F. Stiles	273,185	Feb. 27	2022	569	23	816

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cigar-coloring machine	M. A. Winget	290,617	Dec. 18	1578	434	25	1179
Cigar-cutter	P. Abbott	275,009	Apr. 3	166	44	23	1254
Cigar-cutter	G. W. Burns	282,155	July 31	2306	633	24	423
Cigar envelope or covering	J. A. Whitney	271,006	Jan. 23	1462	421	23	300
Cigar-holder	H. E. Darling	270,025	Jan. 2	235	68	23	48
Cigar-holder	J. B. Holmer	276,042	Apr. 17	1513	416	23	1501
Cigar-lighter	W. S. McLewee	273,868	Mar. 13	816	221	23	992
Cigar-lighter cutter	C. B. Hitchcock	269,934	Jan. 2	131	39	23	27
Cigar-machine	R. A. Bright, Jr	279,125	June 12	655	179	23	2245
Cigar-machine	O. Hammerstein	272,958	Feb. 27	1749	488	23	767
Cigar-machine	C. Haugk	289,412	Dec. 4	48	14	25	895
Cigar-maker's implement	T. Streat	290,811	Dec. 25	1638	509	25	1232
Cigar-making apparatus	J. R. Williams	290,954	Dec. 25	2015	556	25	1999
Cigar-mold press	C. P. Lesher	278,245	May 22	2122	584	23	2011
Cigar-perforator	R. M. Collard	288,210	Nov. 13	519	144	25	607
Cigar-tip cutter	F. Flad	276,964	May 1	564	147	23	1723
Cigar-wrappers. Machine for cutting out	J. Brandt	277,452	May 15	1165	313	23	1839
Cigars and tobacco. Moistening apparatus for	W. W. and J. B. Wentzell	273,205	Feb. 27	2048	577	23	821
Cigars. Implement for perforating and clipping	A. J. Peavey	282,764	Aug. 7	351	99	24	561
Cigars. Machine for treating tightly-rolled	J. Beres	274,554	Mar. 27	1707	474	23	1150
Cigars. Making	I. Brach	278,769	June 5	114	.....	23	2143
Cigarette and match box. Combined	H. Bloch	283,065	Aug. 14	706	198	24	633
Cigarette-machine	O. W. Allison	290,166	Dec. 11	974	275	25	1067
Cigarette-machine	J. Burns and A. Buckman. (Reissue)	10,428	Dec. 18	1627	447, 448	25	1188
Cigarette-machine	H. E. Casgrain	281,451	July 17	1397	383	24	258
Cigarette-machine	P. Everitt	274,746	Mar. 27	1929	537, 538	23	1190
Cigarettes for the market. Case or envelope for putting up	E. J. Fraser	276,171	Apr. 24	1674	463	23	1537
Cipher. Combination	T. Gruaz	283,883	Aug. 28	1708	481	24	833
Circles. Machine for cutting	J. W. Hicks	290,882	Dec. 25	1918	530	25	1246
Circuit-closer	C. Bartlett	281,603	July 17	1579	431, 432	24	988
Circuit-controlling device	E. Weston	277,640	May 15	1388	374	23	1876
Circuit-opener. Automatic	D. Rousseau	279,107	June 5	622	170	23	2229
Circuit-opener. Automatic	J. P. Tirrell	283,303	Aug. 14	994	278, 279	24	685
Cistern	G. W. Overall	274,022	Mar. 13	994	272	23	1012
Cistern-cover	T. Cubbins	285,801	Oct. 2	24	8	25	6
Cisterns. Apparatus for cleaning	W. M. Prather	270,118	Jan. 2	333	98	23	67
Cisterns. Cleaning	W. S. Henson	277,486	May 15	1204	323	23	1846
Clamp: *See* Bed-slat clamp. Bench-clamp. Billiard-cue clamp. Book-clamp. Book-binder's clamp. Boot or shoe clamp. Clothes-line clamp. Drawer-clamp. Fire-escape friction-clamp. Flanged clamp. Floor-clamp. Harrow-tooth clamp. Ironing-board clamp. Lamp-shade clamp. Metallic clamp. Pipe-clamp. Quilting-frame clamp. Rope-clamp. Rubber-dam clamp. Saw-clamp. Sewing-machine clamp. Sewing-machine-attachment clamp. Shade-ring clamp. Standard-clamp. Stone-work clamp. Stool screw-clamp. Trace-loop clamp. Well-tubing clamp.							
Clamp	G. C. Bacon	283,945	Aug. 14	561	159	24	607
Clamp	A. W. Davis	286,688	Oct. 16	1146	308	25	223
Clamp	E. Sage	279,601	June 19	1235	343	23	2348
Clamp	C. Steineke	274,838	Mar. 27	2038	567	23	1209
Clamp	L. D. Wright	273,215	Feb. 27	2066	581	23	823
Clamp and vise	C. L. Bellamy	286,376	Oct. 9	751	202	25	147
Clamp device	C. E. Worline	282,479	July 31	2718	748	24	494
Clamp for hand-power dumb-waiters and other purposes	E. Lange	286,024	Oct. 2	300	84	25	56
Clamp for panel lining or facing	J. C. Weaver	286,243	Oct. 9	568	156	25	114
Clarionet-case	W. H. Cundy	270,640	Jan. 16	1005	290	23	213
Clasp: *See* Album-clasp. Album and book clasp. Book-clasp. Corset-clasp. Fencing-clasp. Garment-clasp. Garment-supporter clasp. Halter-clasp. Metallic clasp. Pencil-clasp. Purse or bag clasp. Shoe-clasp. Stocking-clasp.							
Clasp	J. E. Bedford	286,991	Oct. 23	1533	422	25	296
Clasp	F. B. Brown	284,536	Sept. 4	461	130	24	982
Clasp	F. B. Brown	284,943	Sept. 11	960	269	24	1075
Clasp	C. V. Mulligan	289,690	Dec. 4	395	113	25	956
Clasp	E. S. Smith	289,153	Nov. 27	1703	473	25	928
Clasp and button. Combined	G. T. Kilner	276,427	Apr. 24	2002	555	23	1503
Clasp for pocket-books, &c	G. Crouch	276,362	Apr. 24	1920	532	23	1579
Clasp for suspenders, &c	H. A. Hayden	271,452	Jan. 30	2021	583	23	405
Clasp pivot-pin	W. W. Anderson	287,605	Oct. 30	2330	629	25	452
Claw-bar	A. Hamm	282,722	Aug. 7	309	87	24	553
Claw-bar	J. Moore and A. J. O'Leary	287,561	Oct. 30	2250	611	25	432
Clay. Apparatus for preparing	C. Chambers, Jr	277,459	May 15	1174	315	23	1841
Clay. Coloring and hardening	J. Ambuhl	274,543	Mar. 27	1697	.....	23	1148
Clay. Coloring and hardening articles manufactured of	E. S. Boynton	287,799	Nov. 6	13	.....	25	509
Clay-crusher	W. W. Wallace	288,895	Nov. 20	1387	382	25	765
Clay crushing and grinding roller	J. W. Penfield	289,025	Nov. 27	1552	428	25	801

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Clay crushing and pulverizing roller	J. W. Penfield	289,026	Nov. 27	1553	428	25	802
Clay. Machine for separating stones from	H. Cockell	284,613	Sept. 11	557	158	24	1005
Clay-pulverizer	W. Andrus	286,520	Oct. 9	924	249	25	178
Clay reducer and disintegrator	J. C. Anderson	271,588	Feb. 6	5	2	23	441
Clay reducer and disintegrator	J. C. Anderson	271,589	Feb. 6	6	2	23	441
Clay smoking-pipes. Machine for making	O. J. Mason	272,966	Feb. 27	1757	491	23	768
Cleaner:							
See Boiler-cleaner.	Peanut-cleaner.						
Boot-cleaner.	Seed-cleaner.						
Carpet-cleaner.	Sink-cleaner.						
Coal-cleaner.	Slate-cleaner.						
Colter-cleaner.	Slate and blackboard cleaner.						
Cotton-cleaner.							
Cotton-gin cleaner.	Slate and window cleaner.						
Ditch-cleaner.	Spectacle-cleaner.						
Flue-cleaner.	Steam-boiler cleaner.						
Fruit-cleaner.	Steam-boiler-tube cleaner.						
Grain-cleaner.	Stove-pipe cleaner.						
Grate-cleaner.	Track-cleaner.						
Gun-wad cleaner.	Tumbler-cleaner.						
Hoof-cleaner.	Wheat-cleaner.						
Lamp-chimney cleaner.	Wick-cleaner.						
	Window-cleaner.						
Cleaning compound	W. E. Clarke	289,621	Dec. 4	308	.....	25	942
Cleaning compound	M. J. Gibler	275,189	Apr. 3	396	.....	23	1295
Cleat	F. W. Limeburner	271,484	Jan. 30	2069	595	23	413
Clevis	A. Buckell	270,201	Jan. 9	440	130	23	97
Clevis	R. A. Rouse	286,075	Oct. 2	364	101	25	67
Clevis. Plow-	F. Bastam	274,897	Apr. 3	8	2	23	1228
Clevis. Plow-	E. L. Bracken	285,962	Oct. 2	233	65	25	44
Clevis. Plow-	A. Patton	278,453	May 29	2418	659	23	2071
Clip:							
See Carriage-clip.	Tug-clip.						
Single-tree clip.	Wagon-clip.						
Thill-coupling clip.	Whiffletree-clip.						
Clip-bender	N. R. Dull	274,741	Mar. 27	1922	536	23	1189
Clipping machine. Horse-	R. K. Carpenter	281,668	July 24	1669	455	24	309
Cloak	W. B. Dowse	272,537	Feb. 20	1200	335	23	664
Cloak	D. W. Howard	272,440	Feb. 20	1077	303	23	643
Cloak. Circular	W. B. Dowse	277,014	May 8	628	165	23	1740
Cloak. Circular	C. W. Morrison	278,727	June 5	67	20	23	2136
Clock	W. S. McLewee	272,737	Feb. 20	1453	407	23	710
Clock. Alarm-	H. J. Davies	270,400	Jan. 9	693	205	23	145
Clock. Alarm-	A. D. Smith	283,429	Aug. 21	1166	327, 328	24	722
Clock-alarm	O. H. Woodworth	271,012	Jan. 23	1470	422	23	301
Clock alarm mechanism	J. Ganss	277,702	May 15	1458	393	23	1888
Clock and alarm striking apparatus	I. B. Woodruff	284,583	Sept. 4	518	145	24	991
Clock and watch spring	G. P. Ganster	286,417	Oct. 9	802	217	25	156
Clock-bell	H. Camp	278,874	June 5	273	79	23	2170
Clock-bell	G. E. Norton	276,456	Apr. 24	2037	566	23	1599
Clock-bell	A. C. Sanford	279,022	June 5	498	135	23	2208
Clock. Calendar-	F. Chesebrough	283,568	Aug. 21	1329	371	24	752
Clock. Calendar-	B. Franklin	279,143	June 12	677	186	23	2249
Clock. Calendar-	J. E. Young	279,850	June 19	1523	426	23	2392
Clock. Carriage-	R. J. Clay	277,234	May 8	901	240	23	1787
Clock-case	A. O. Jennings	278,144	May 22	1993	548	23	1989
Clock. Electric	V. Himmer	274,325	Mar. 20	1391	381	23	1088
Clock. Electric	J. P. A. Schaefli	288,496	Nov. 13	898	244	25	672
Clock. Electric	D. F. Sweet	272,100	Feb. 13	649	176, 177	23	564
Clock. Electric	D. F. Sweet	273,634	Mar. 6	504	135, 136	23	920
Clock. Electric alarm-	J. I. Conklin, Jr.	270,659	Jan. 16	1004	290	23	213
Clock-escapement	J. Blanshan	283,957	Aug. 28	1801	510	24	851
Clock-escapement	G. P. Ganster	286,419	Oct. 9	805	217	25	156
Clock-escapement	A. Lawrence	290,936	July 10	748	208	24	137
Clock escapement. Electric-	A. W. Gray	274,445	Mar. 20	1552	425	23	1117
Clock gravity-escapement	D. Shive	287,181	Oct. 23	1775	487	25	242
Clock-leveling device	R. B. Freeman	277,261	May 8	934	251	23	1793
Clock movement. Electric-	J. Happersberger	278,946	June 5	410	112	23	2193
Clock-pendulum	I. B. Woodruff, G. B. Owen, and H. W. Beecher.	287,604	Oct. 30	2328	629	25	451
Clock-pendulums. Device for adjusting	M. C. Davis	278,781	June 5	145	43	23	2147
Clock. Primary electric	D. F. Sweet	284,578	Sept. 4	513	143	24	990
Clock. Quarter-second timing-	J. Karr	271,078	Jan. 23	1549	446, 447	23	315
Clock-regulator. Pneumatic	G. G. Wagner	269,900	Jan. 2	93	28	23	20
Clock. Repeating-	W. D. Davies	278,105	May 22	1938	532	23	1979
Clock. Secondary electric	A. S. Crane	286,181	Oct. 9	493	136	25	102
Clock-setting mechanism. Electric	J. F. Kettell	290,894	Dec. 25	1936	533, 534	25	1249
Clock-springs. Maintaining power for	F. T. Marchand	278,572	May 29	2555	697	23	2095
Clock-striking mechanism	O. O. Lövaas	276,437	Apr. 24	2011	558	23	1595
Clock system. Electric-	C. E. Buell	280,715	July 3	450	129, 130	24	81
Clock system. Electric pneumatic	C. A. Mayrhofer	278,159	May 22	2006	552, 553	23	1991
Clock system. Hydropneumatic-	C. A. Mayrhofer	271,888	Feb. 6	362	100, 101	23	504
Clock system. Pneumatic-	V. Popp	275,701	Apr. 10	1082	296	23	1490
Clock system. Pneumatic and electric	L. Mautner	271,347	Jan. 30	1880	545, 546, 547	23	379
Clock systems. Circuit and apparatus for electric-	J. Hamblet	288,175	Nov. 6	471	131	25	589

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Clock winding and setting apparatus	V. Popp	275,700	Apr. 10	1061	296	23	1419
Clock-winding device	A. Cuplt	273,471	Mar. 6	299	81	23	884
Clock-winding device. Electric	G. F. Ballou	277,104	May 8	748	197	23	1760
Clock-winding. Signal device for	C. Votti	289,789	Dec. 4	515	142	25	976
Clocks. Actuating device for secondary electric	A. S. Crane	288,623	Nov. 20	1051	289 290	25	706
Clocks by air-currents. Apparatus for winding	G. P. Ganster	286,418	Oct. 9	803	217	25	158
Clocks. Circuit-breaker for electric	G. B. Webb	289,944	Dec. 11	708	200	25	1018
Clocks. Circuit-controller for electric	V. Himmer	274,323	Mar. 20	1386	381	23	1087
Clocks. Circuit-controller for electric	V. Himmer	274,324	Mar. 20	1388	381	23	1088
Clocks. Circuit for secondary electric	H. L. Bailey	284,355	Sept. 4	241	67	24	945
Clocks. Device for synchronizing	R. W. Willson	288,906	Nov. 20	1397	385	25	767
Clocks. Electric mechanism for controlling the hands of	J. Happersberger	273,231	Feb. 27	1086	586	23	887
Clocks. Electrical control for pendulum	R. W. Willson	270,533	Jan. 9	868	253	23	180
Clocks. Electro-magnetic motor for	H. Grau	279,239	June 12	776	214	23	2266
Clocks. Gravity-escapement for	J. H. Gerry	280,463	July 3	164	44	24	30
Clocks. Illuminating	J. M. Crawford	281,465	July 17	1410	387	24	261
Clocks. Second-hand attachment for	F. L. Gregory	281,493	July 17	1447	396	24	267
Clocks. Synchronizing	G. G. Wagner	281,585	July 17	1553	425	24	284
Clod-crusher	S. Cole	281,021	July 10	840	233	24	156
Clod-crusher	A. Peterson	277,059	May 8	690	180	23	1750
Clod-crusher	E. S. Reed	280,513	July 3	216	57	24	39
Clod-crusher	O. A. Satrang	281,303	July 17	1204	333	24	226
Clod-crusher and sod and stalk cutter. Combined	J. Miller	273,123	Feb. 27	1047	546	23	802
Clog or shoe	J. Cassidy	277,458	May 15	1172	315	23	1841
Closet: *See* Water-closet.							
Closets. Apparatus for operating self-flushing	T. Prosser	279,183	June 12	719	196	23	2256
Cloth-cutting machine	P. Howe	280,827	July 10	607	170	24	114
Cloth-cutting machine. Band-knife	E. Dredge	280,917	July 10	712	200	24	132
Cloth fabrics. Ornamenting woven	H. Maltby and A. K. Gardner	288,249	Nov. 13	570	158	25	616
Cloth impervious to water. Process of and compound for rendering	E. B. Collins	285,734	Sept. 25	1930	.....	24	1261
Cloth. Machine for applying cement and flock to	T. J. Mayall	286,038	Oct. 2	319	89	25	59
Cloth. Machine for cutting and folding strips of	T. Woodhouse	273,790	Mar. 13	716	194	23	965
Cloth, &c. Machine for spreading surfacing material upon	J. Tregurtha	279,462	June 12	1065	295	23	2312
Cloth. Method of and machine for shrinking, drying, and finishing	W. Hebdon	276,036	Apr. 17	1505	414 415	23	1500
Cloth-napping machine	E. Gessner	271,834	Feb. 6	302	82, 83	23	494
Cloth opening and measuring machine	W. Hebdon	276,037	Apr. 17	1506	415	23	1500
Cloth-pressing machines. Bed for	G. W. Miller	275,243	Apr. 3	460	128	23	1305
Cloth reeling and measuring machine	G. W. Kemery	273,690	Mar. 6	578	154	23	933
Cloth-shearing machine	D. C. Sumner	282,401	July 31	2615	718	24	477
Cloth-shearing machine	D. C. Sumner	282,402	July 31	2616	719	24	477
Clothes and towel rack	J. P. Geishaker	275,478	Apr. 10	808	219	23	1372
Clothes-bar	D. S. Worthington	288,148	Nov. 6	437	123	25	584
Clothes-drier	J. S. Gold	272,424	Feb. 20	1061	298 299	23	640
Clothes-drier	A. Iske	277,736	May 15	1494	406	23	1895
Clothes-drier	O. F. Smith	281,734	July 24	1759	478	24	324
Clothes-drier	C. G. Udell	290,501	Dec. 18	1425	395	25	1153
Clothes-drier	J. A. Ward	283,728	Aug. 21	1518	428	24	789
Clothes-drier frame. Adjustable	M. A. Warren	286,878	Oct. 16	1382	379	25	265
Clothes-hook	P. Miles	280,062	June 26	1790	502	24	2451
Clothes-hook	A. Wode and J. Mifflin, Jr.	285,094	Sept. 18	1157	323	24	1116
Clothes-line	D. H. Murphy	290,995	Dec. 25	2079	572	25	1271
Clothes-line clamp	A. W. Bristow	285,005	Sept. 18	1048	293	24	1018
Clothes-line coupling	A. F. Brower	289,334	Nov. 27	1922	534	25	871
Clothes-line fastener	E. Bauer	282,601	Aug. 7	152	46	24	527
Clothes-line hook	J. B. Garfield	281,260	July 17	1156	319	24	217
Clothes-line support	M. Houman	286,441	Oct. 9	831	225	25	161
Clothes-pin	R. B. Perkins	272,762	Feb. 20	1485	418	23	715
Clothes-pin. Locking	S. Strong	273,633	Mar. 6	503	135	23	990
Clothes-pins. Machine for making wire	A. E. Francis	276,575	May 1	41	11 12 13	23	1634
Clothes-pounder	O Colvin	271,602	Feb. 6	24	6	23	444
Clothes-pounder	N. B. Elliott and J. T. Lloyd	278,522	May 29	2498	682	23	2085
Clothes-pounder	J. W. McCalla	272,288	Feb. 13	870	243	23	603
Clothes-pounder	A. McCready and C. S. Alshouse	289,292	Nov. 27	1866	518	25	860
Clothes-pounder	M. Remington and J. L. Riter	285,930	Oct. 2	196	55	25	38
Clothes-pounder. Atmospheric	W. H. Noll	282,759	Aug. 7	344	97	24	560
Clothes-pounder. Pneumatic	G. C. Dimock	280,145	June 26	1883	530	23	2468
Clothes-rack	J. H. French	287,655	Oct. 30	2389	644	25	464
Clothes-rack	W. Klinschmedt	270,442	Jan. 9	749	220	23	155
Clothes-rack	N. H. Long	288,645	Nov. 20	1078	296	25	710
Clothes-rack. Folding	H. M. Downing	284,286	Sept. 4	158	43	24	931
Clothes-reel	T. Alderdyce	271,675	Feb. 6	107	29	23	458
Clothes-reel	J. H. Stuart	277,171	May 8	839	221	23	1775
Clothes-washer	J. B. Bell	270,726	Jan. 16	1110	320	23	233
Clothes-washer	C. A. Dodge	280,915	July 10	710	199 200	24	139
Clothes-washer	J. H. Hey	273,360	Mar. 6	158	45	23	861
Clothes-washer	H. C. McIlwain	284,459	Sept. 4	366	101	24	966
Clothes-washer	S. A. Niver	273,134	Feb. 27	1965	552	23	806
Clothes-washer and churn. Combined	M. J. Bridges	273,453	Mar. 6	274	74	23	880
Clothes-wringer	J. E. Donovan	275,165	Apr. 3	367	101	23	1200
Clothes-wringer	O. P. Gould	281,866	July 24	1930	527	24	335
Clothes-wringer	H. C. Hopkins	270,800	Jan. 16	1204	348	23	251
Clothes-wringer	H. C. Hopkins	278,966	June 5	431	118	23	2197
Clothes-wringer	C. K. Stinson	287,782	Oct. 30	2562	689	25	496
Clothes-wringer	J. Todd	272,990	Feb. 27	1783	499	23	773
Clothes wringer and mangle	C. Gentesse	281,358	July 17	1275	354	24	238

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Clothes-wringer. Bench	E. A. Jones	272,885	Feb. 27	1669	466	23	754
Clothes-wringer. Centrifugal	J. G. Crawford	273,262	Mar. 6	23	7	23	838
Clover-hullers. Recleaning attachment for	M. O. Meacham	276,851	May 1	407	108	23	1697
Club-foot apparatus	J. Burns	282,491	Aug. 7	14	4	24	503
Club. Indian	C. W. Foster and W. W. Dudley	275,627	Apr. 10	998	270	23	1404
Clutch	W. D. Ewart	272,947	Feb. 27	1737	485	23	765
Clutch	I. N. Forrester	283,993	Aug. 28	1843	520	24	858
Clutch	J. Gibbins	289,249	Nov. 27	1814	501	25	850
Clutch	O. Kromer and F. Rinkleff	278,024	May 22	1846	504	23	1963
Clutch	A. C. Miller	288,951	Nov. 20	1454	401	25	778
Clutch	L. C. Perkins	284,475	Sept. 4	380	106	24	968
Clutch	L. C. Pratt	290,706	Dec. 25	1695	467	25	1206
Clutch	H. E. Pridmore	272,152	Feb. 13	706	194	23	574
Clutch	W. W. Wythe	283,452	Aug. 21	1192	335	24	727
Clutch and brake. Combined	C. H. Rohde	278,601	May 29	2587	706	23	2100
Clutch and reversible pawl for sewing-machines, &c	N. H. Davis	270,893	Jan. 23	1317	380	23	277
Clutch. Automatic friction	H. Unzicker	284,689	Sept. 11	652	184	24	1020
Clutch device	J. and T. H. Parvin	270,107	Jan. 2	320	95	23	65
Clutch for elevators. Friction	W. Winkless	285,866	Oct. 2	108	32	25	21
Clutch. Friction	G. W. Baker	285,725	Sept. 25	1915	543	24	1259
Clutch. Friction	G. L. Barnes	285,870	Oct. 2	111	33	25	22
Clutch. Friction	J. H. Blessing	290,517	Dec. 18	1452	401	25	1157
Clutch. Friction	E. P. H. Capron	275,466	Apr. 10	787	211	23	1369
Clutch. Friction	T. F. Carver. (Reissue)	10,365	Aug. 14	1096	305	24	702
Clutch. Friction	C. C. Child	270,636	Jan. 16	1001	289	23	212
Clutch. Friction	H. C. Crowell	281,242	July 17	1130	311	24	213
Clutch. Friction	H. E. Eberhardt	290,671	Dec. 25	1649	454	25	1198
Clutch. Friction	J. C. Eckardt	287,915	Nov. 6	157	45, 46	25	535
Clutch. Friction	W. H. Eddy	285,593	Sept. 25	1750	496	24	1229
Clutch. Friction	W. G. Gass and W. A. Galashan	275,186	Apr. 3	394	108	23	1294
Clutch. Friction	J. Gibbins	284,731	Sept. 11	708	198	24	1030
Clutch. Friction	D. R. Kinyon	281,700	July 24	1715	466	24	317
Clutch. Friction	J. E. Meyer	283,009	Aug. 14	638	181	24	690
Clutch. Friction	D. Mills	286,214	Oct. 9	531	145	25	108
Clutch. Friction	J. A. Neilson	270,099	Jan. 2	311	92	23	63
Clutch. Friction	J. K. Proctor	286,556	Oct. 9	969	261	25	186
Clutch. Friction	F. H. Richards	283,145	Aug. 14	797	223	24	648
Clutch. Friction	G. N. Schoenberg	277,066	May 8	702	183	23	1752
Clutch. Friction	R. Wels	285,940	Oct. 2	209	59	25	40
Clutch. Friction	J. H. Wright	288,291	Nov. 13	621	170	25	624
Clutch-hook	C. Green	274,935	Apr. 3	66	18	23	1237
Clutch. Lever	J. Hill	278,137	May 22	1985	546	23	1987
Clutch mechanism	O. R. Chaplin	277,002	May 8	614	161	23	1737
Clutch mechanism	D. B. Hartley	276,688	May 1	199	51	23	1658
Clutch mechanism	M. Kraker	283,493	Aug. 21	1244	349	24	736
Clutch. Reversible friction	F. P. Huyck	275,388	Apr. 10	690	183	23	1352
Coach	H. F. Stahmer	278,463	May 29	2428	662	23	2073
Coach-pad plate	E. A. Cooper	281,179	July 10	1040	288	24	191
Coach-window. Sliding	J. C. Goold	277,565	May 15	1301	349	23	1861
Coal and ore carrier and transmitter	F. Murgatroyd	279,264	June 12	808	224	23	2271
Coal and ore carrier and transmitter	F. Murgatroyd	279,788	June 19	1445	405	23	2385
Coal and rock drilling machine	T. Aitken	289,595	Dec. 4	281	78	25	937
Coal. Apparatus for loading	W. G. Barnard	285,952	Oct. 2	222	62	25	43
Coal. Apparatus for separating slate from	J. Fern	274,747	Mar. 27	1933	536	23	1191
Coal, &c. Apparatus for washing and delivering	C. Sheppard	283,156	Aug. 14	811	227	24	650
Coal-burning furnace	A. G. Moore and J. W. Rahn	279,969	June 26	1675	470	23	2430
Coal-cleaner	J. Snyder and D. Morse	281,735	July 24	1760	478 479	24	324
Coal-crushing roller	J. H. and J. P. Hosie	279,761	June 19	1416	396	23	2380
Coal-drilling machine	E. Bittenbender and M. L. Snyder	273,443	Mar. 6	260	70	23	878
Coal-elevator	S. V. Cook	280,014	June 26	1731	485	23	2441
Coal elevator and bucket	A. L. Hitchcock	287,831	Nov. 6	51	15	25	516
Coal elevator and conveyer	R. B. Little	287,140	Oct. 23	1718	470 471	25	332
Coal-fork	G. W. Herrick	272,137	Feb. 13	693	189	23	572
Coal-hod	C. Hoff	279,871	June 19	1551	434	23	2403
Coal-hod	E. G. Luscher	278,157	May 22	2005	551	23	1991
Coal hod or scuttle	F. W. Gardner and M. B. Mills	271,699	Feb. 6	136	38	23	463
Coal-hopper	W. Swindell	270,149	Jan. 2	381	110	23	77
Coal. Machine for separating impurities from	C. W. Ziegler	277,530	May 15	1259	338	23	1854
Coal-scuttle	R. F. Lewis	284,030	Aug. 28	1911	535	24	869
Coal-scuttle	H. S. Reynolds	279,502	June 12	1115	308	23	2320
Coal-scuttle and ash-sifter. Combined	A. Bayley	283,848	Aug. 28	1668	471	24	896
Coal-tubs. Lock for self-dumping	G. L. Stuebner	289,940	Dec. 11	703	197	25	1017
Coal. Unloading and handling	J. R. McPherson	282,555	Aug. 7	101	30	24	517
Coat	W. P. Dodge and J. Cummings, Jr	289,236	Nov. 27	1801	499	25	847
Coat	N. P. Sandling	284,070	Aug. 28	1959	546	24	877
Coat and cloak hook	D. Kelly	271,640	Feb. 6	70	19	23	452
Coat-spring	M. C. Stone	281,578	July 17	1544	423	24	283
Coat. Water-proof	J. Maguire	273,115	Feb. 27	1940	544	23	801
Cock	A. W. Parsons	275,406	Apr. 10	713	190	23	1357
Cock	J. Semple	269,886	Jan. 2	74	22, 23	23	17
Cock and casing	J. O. Waddell	270,520	Jan. 9	852	248	23	176
Cock and check-valve. Steam	J. A. I. Claudon	279,338	June 12	909	253	23	2287
Cock and faucet	F. Hickman	270,066	Jan. 2	280	83	23	57
Cock and low-water detector. Gage	G. L. Engelking	275,175	Apr. 3	379	105	23	1292
Cock and valve	T. D. Lyons and D. J. Linehan	273,862	Mar. 13	810	219	23	981
Cock. Automatic cylinder	C. E. Ulrick and T. Williams	270,266	Jan. 9	519	152	23	111
Cock. Ball	W. Smith	278,189	May 22	2047	562	23	1998
Cock. Ball	J. Zane	279,685	June 19	1337	372	23	2365
Cock. Combined stop and draw	E. Dassau	270,399	Jan. 9	693	205	23	145
Cock. Compression	J. S. Barr	285,953	Oct. 2	223	63	25	43
Cock. Compression	C. G. Reed	283,660	Aug. 21	1427	399	24	772
Cock. Compression basin	J. H. Solis	273,177	Feb. 27	2015	566	23	815

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cock. Cylinder-	J. N. Chamberlin	283,566	Aug. 21	1327	370	24	752
Cock. Cylinder-	D. Smullen	284,504	Sept. 4	424	120	24	976
Cock for engines. Cylinder-	J. B. Haight	279,562	June 19	1192	330	23	2340
Cock for steam-radiators. Air-	H. Patterson	274,650	Mar. 27	1822	506	23	1171
Cock. Gage-	M. J. Fitzgerald	289,637	Dec. 4	330	92	25	946
Cock. Gage-	L. B. Fulton. (Reissue)	10,398	Oct. 30	2575	692	25	499
Cock. Gage-	C. P. Higgins	280,176	June 26	1914	538	23	2473
Cock. Gage-	J. Lee	276,836	May 1	391	103	23	1694
Cock. Gage-	R. S. Manchester	272,286	Feb. 13	869	243	23	603
Cock. Gage-	D. F. Tousey	274,994	Apr. 3	140	40	23	1250
Cock-grinding machine	W. E. Berens	286,525	Oct. 9	929	251	25	179
Cock-grinding machine	G. Westinghouse, Jr	270,527	Jan. 9	961	250, 251	23	178
Cock. Hydrant-	J. Snell	290,132	Dec. 11	939	266	25	1060
Cock. Locking stop-	J. Norris and N. Moore	288,725	Nov. 20	1188	324	25	728
Cock or faucet	W. S. Cooper	280,136	June 26	1872	528	23	2467
Cock. Relief-	J. L. Wolcott	273,213	Feb. 27	2064	580	23	823
Cock. Steam-	W. R. Middleton	276,618	May 1	90	25	23	1643
Cock. Steam-cylinder	E. Richards and A. Krieger	270,250	Jan. 9	502	148	23	109
Cock. Stop-	C. Hirsch	283,887	Aug. 28	1713	483	24	834
Cock. Stop-	J. Howes	280,829	July 10	613	171	24	114
Cock. Stop and waste	J. Kelly	283,613	Aug. 21	1376	384, 385	24	761
Cock. Stop and waste	J. F. Lamping	276,431	Apr. 24	2005	556	23	1593
Cock valve. Water-	F. W. Kelly	279,569	June 19	1200	332	23	2341
Cock. Water-	M. Hogan	275,487	Apr. 10	818	221	23	1374
Cock. Water-closet	C. F. Pike	270,334	Jan. 9	604	178	23	128
Cocks or valves. Machine for finishing	C. H. Goodrich	270,052	Jan. 2	263	76, 77	23	54
Cockle, &c., from grain. Machine for separating	H. Ogborn	283,015	Aug. 14	644	182, 183	24	622
Cockle-machine	M. Crawford	285,344	Sept. 18	1447	408	24	1168
Cockle-machine	J. Lucas	274,797	Mar. 27	1993	554	23	1201
Cockle-machine and grain-separator	T. M. Bales and J. A. Jackson	282,036	July 31	2136	586	24	396
Cockle-screen	J. B. Cornwall	276,523	Apr. 24	2123	590	23	1613
Cocoanut-sheller	J. P. Anderson	286,368	Oct. 9	744	199	25	145
Cocoa. Soluble	E. F. G. Hartmann	270,878	Jan. 16	1293	.....	23	267
Cocoa. Soluble	E. F. G. Hartmann	273,975	Mar. 13	940	.....	23	1003
Coffee and other beverages. Method of and apparatus for making	J. C. Grant	276,519	May 1	47	14	23	1635
Coffee and tea pot	A. Stewart	290,136	Dec. 11	942	267	25	1061
Coffee-boiler	H. and J. Kassen	279,649	June 19	1294	359	23	2358
Coffee-boiler lip	G. W. Knapp	281,522	July 17	1480	406	24	273
Coffee compound	S. B. Bushfield	274,438	Mar. 20	1534	.....	23	1114
Coffee compounds. Preparing	C. R. Groff	270,787	Jan. 16	1192	344	23	248
Coffee-cooler	J. P. Emerson	285,349	Sept. 18	1451	409	24	1169
Coffee-drying apparatus	F. Klée	271,869	Feb. 6	343	95	23	501
Coffee grading and cleaning machine	L. A. Gobin	287,823	Nov. 6	42	12	25	515
Coffee, &c. Machine for scouring, cleaning, and polishing	J. H. Pendleton	274,369	Mar. 20	1449	397	23	1099
Coffee, &c. Machine for separating	H. B. Stevens	270,501	Jan. 9	816	238	23	169
Coffee-mill	F. K. Brierly	284,271	Sept. 4	140	39	24	928
Coffee-mill	F. H. Chapman	279,130	June 12	659	180, 181	23	2346
Coffee-mill	O. J. Range	272,584	Feb. 20	1263	352	23	676
Coffee or tea pot	P. H. O'Hara	270,463	Jan. 9	772	226	23	160
Coffee or tea pot	J. Vacheresse	272,802	Feb. 20	1535	432	23	724
Coffee-pot	H. H. Beach	284,363	Sept. 4	249	69	24	946
Coffee-pot	J. Cochran	285,972	Oct. 2	942	68	25	46
Coffee-pot	I. C. H. Gilmore	270,415	Jan. 9	710	210	23	148
Coffee-pot	C. Halstead	281,265	July 17	1161	320	24	218
Coffee-pot	T. Keys	281,373	July 17	1292	358	24	241
Coffee-pot	L. W. Walker	277,813	May 15	1584	433	23	1912
Coffee-pot and filter	A. Rutenick	272,481	Feb. 20	1131	318	23	652
Coffee pot or urn	E. Robinson	276,473	Apr. 24	2058	571	23	1603
Coffee-pot spouts, &c. Machine for forming	G. R. Scates	279,602	June 19	1237	343	23	2348
Coffee, rice, &c. Machine for hulling and polishing	H. B. Stevens	286,499	Oct. 9	895	241, 242	25	173
Coffee-roaster	C. Bertling	270,373	Jan. 9	658	193	23	138
Coffee-roaster	J. Burns	279,329	June 12	897	250	23	2265
Coffee-roaster	G. H. Pfeifer	279,179	June 12	715	195	23	2255
Coffee-roaster	J. W. Rees and J. J. Smith	285,929	Oct. 2	195	55	25	38
Coffee-roaster	J. J. Stopple	270,503	Jan. 9	821	239	23	170
Coffee-roaster	J. A. Sweeny	278,199	May 22	9064	569	23	2001
Coffee-roaster	T. C. White	274,538	Mar. 27	1690	469	23	1147
Coffee-roaster and corn-popper	P. B. Sheldon	289,312	Nov. 27	1887	526	25	864
Coffee-roaster. Portable	W. F. Beecher and R. S. West	271,770	Feb. 6	221	62	23	479
Coffee-separator	P. P. Brannon	271,779	Feb. 6	234	65	23	481
Coffee-separator	J. R. Merrihew	277,317	May 8	1003	269	23	1805
Coffee substitute	E. A. Grote	271,332	Jan. 30	1864	.....	23	376
Coffin-handle	J. McCarthy	272,229	Feb. 13	871	244	23	604
Coffin head-rest	E. Hedges	290,682	Dec. 25	1664	459	25	1200
Coffin. Knockdown	N. Swanson	284,986	Sept. 11	1010	284	24	1085
Coffin-lid fastener	J. Martin	281,382	July 17	1299	360	24	243
Coffin-lifter	C. E. Wilson	270,620	Jan. 16	979	283	23	208
Coffin-lowering apparatus	A. B. Morrison	285,149	Sept. 18	1228	345	24	1128
Coffin-lowering device	J. Patterson	285,064	Sept. 18	1121	313	24	1110
Coffin-ornament	J. B. Sargent	290,118	Dec. 11	924	262	25	1058
Coin and making change. Device for holding	W. H. Harrison	282,723	Aug. 7	309	87, 88	24	554
Coin-detector	E. Bachmann	285,204	Sept. 18	1286	362	24	1139
Coin-tester	M. Clarke	273,667	Mar. 6	545	146	23	927
Coke. Apparatus for the manufacture of bituminous coal	J. F. Bennett	282,604	Aug. 7	155	47, 48	24	598
Coke-furnace and apparatus connected therewith	R. Thomas	276,504	Apr. 24	2095	582	23	1609
Coke-oven	J. Butler	289,887	Dec. 11	647	180	25	1006

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Coke-oven	F. Carves	287,905	Nov. 6	143	42, 43	25	533
Coke-oven	B. Cochrane	276,002	Apr. 17	1461	403	23	1493
Coke-oven	G. Seibel	288,874	Nov. 20	1361	373, 374	25	760
Coke-oven	L. Semet	287,332	Oct. 23	1964	536, 537	25	375
Coke-oven	R. De Soldenhoff	273,822	Mar. 13	758	206	23	972
Coke oven and kiln	F. C. Eberley and R. Richter	282,064	July 31	2175	597, 598	24	402
Coke-oven door	W. H. Beckwith	288,761	Nov. 20	1230	337	25	735
Coke-oven door and frame therefor	J. Herron and R. T. Wray	287,285	Oct. 23	1906	521	25	365
Coking coal-dust for manufacturing fuel and gas	J. W. Pittinos	279,796	June 19	1455	.....	23	2387
Cold. Production of	J. C. Rossi	284,068	Aug. 28	1956	545	24	876
Collar	F. Beiermeister, Jr	278,677	June 5	3	1	23	2125
Collar	F. Beiermeister, Jr	289,604	Dec. 4	290	81	25	939
Collar	W. Cohlman	287,241	Oct. 23	1858	508	25	355
Collar	A. C. Fellows	284,829	Sept. 11	824	230	24	1050
Collar	A. C. Fellows	287,263	Oct. 23	1878	514	25	359
Collar	J. M. Ide	279,567	June 19	1198	331	23	2341
Collar	I. P. Turner and F. S. Searle	279,994	June 26	1702	478	23	2435
Collar	J. M. Varney	277,088	May 8	723	192	23	1757
Collar and hame. Combined	M. Humber	286,010	Oct. 2	284	79	25	53
Collar. Dog-	J. H. Fassitt	272,036	Feb. 13	562	152	23	550
Collar-fastener	W. Hayton	279,751	June 19	1408	393	23	2378
Collar fastener. Horse-	W. L. Fries	290,673	Dec. 25	1651	455	25	1198
Collar fastener. Horse-	F. Johnson	278,970	June 5	435	119	23	2197
Collar fastening. Dog-	J. M. Riley	277,785	May 15	1556	423	23	1907
Collar fastening. Horse-	O. H. Morris	279,177	June 12	713	194	23	2255
Collar for female wear. Standing	W. L. Weatherly	278,758	June 5	102	29	23	2141
Collar. Horse-	J. N. Bickel	276,521	Apr. 24	2119	589	23	1613
Collar. Horse-	W. Cosbie	277,463	May 15	1179	317	23	1842
Collar. Horse-	B. K. Emerson	282,450	July 31	2686	737	24	489
Collar. Horse-	S. Gissinger	276,577	May 1	46	13	23	1635
Collar. Horse-	F. A. Hake	282,721	Aug. 7	308	87	24	553
Collar. Horse-	T. Loveday	288,248	Nov. 13	569	158	25	616
Collar. Horse-	C. Marin	283,717	Aug. 21	1505	424	24	786
Collar. Horse-	J. W. Pearson	274,966	Apr. 3	109	31	23	1243
Collar. Horse-	R. Porter	271,921	Feb. 6	410	111	23	512
Collar. Horse-	J. H. Snyder	274,229	Mar. 20	1268	350	23	1068
Collar. Horse-	J. F. Trautmann	277,857	May 15	1640	446	23	1922
Collar. Horse-	M. Turley. (Reissue)	10,431	Dec. 25	2105	580	25	1276
Collar. Horse-	L. E. Woodard	272,824	Feb. 20	1562	439	23	729
Collar or cuff of celluloid	A. A. Sanborn	288,955	Nov. 20	1460	403	25	779
Collar pad. Horse-	W. J. Cochran	275,886	Apr. 17	1333	367	23	1470
Collar pad. Horse-	J. Kallista	283,610	Aug. 21	1372	383	24	760
Collar pad. Horse-	M. W. Lynch	270,960	Jan. 23	1409	405	23	291
Collar pad. Horse-	W. H. Osmer and R. M. Grier	284,658	Sept. 11	607	171	24	1013
Collar pad. Horse-	J. Wallmer	288,141	Nov. 6	429	121	25	583
Collar rim-plate. Horse-	W. L. Bellis	287,497	Oct. 30	2173	589	25	422
Collar-stuffing machine	W. Foglesong	275,624	Apr. 10	994	269	23	1404
Collar throat. Horse-	E. D. Fisher	288,562	Nov. 13	972	267	25	685
Collars and cuffs. Manufacture of	E. K. Betts	280,899	July 10	690	194	24	128
Collars. Machine for blocking horse-	W. Foglesong	283,878	Aug. 28	1703	480	24	832
Collieries. Method of and apparatus for the treatment of spoil-heaps of	L. H. Armour	285,945	Oct. 2	215	60	25	41
Color	J. Urban	277,633	May 15	1381	.....	23	1875
Color-can	J. C. Jessup	286,015	Oct. 2	290	81	25	54
Color-tints. Apparatus for indicating and classifying	J. Pittiot	280,665	July 3	391	109	24	69
Colors on cotton fabrics. Production of azo	T. Halliday	271,636	Feb. 6	66	.....	23	451
Coloring-matter from xylidine. Basic	C. Martius. (Reissue)	10,353	July 10	1101	.....	24	201
Coloring-matter. Manufacture of cardinal-red	J. Wolff	285,335	Sept. 18	1433	.....	25	1166
Coloring-matter. Manufacture of red	O. Bredt	289,613	Dec. 4	300	.....	25	940
Coloring-matter. Manufacture of yellow	I. Levinstein	289,543	Dec. 4	214	.....	25	924
Coloring-matter or dye-stuff from thiodiphenylamine. Obtaining	A. Bernthsen	286,527	Oct. 9	932	.....	25	180
Coloring-matter. Production of yellow	E. Jacobsen	290,585	Dec. 18	1538	.....	25	1172
Coloring-matter. Sulphureted derivative of diphenylamine as a basis for the production of	A. Bernthsen	286,526	Oct. 9	931	.....	25	179
Coloring-matter to fibrous material. Machine for applying	H. W. Vaughan	273,198	Feb. 27	2037	573	23	819
Coloring-matter to fibrous material. Machine for applying	H. W. Vaughan	280,885	July 10	674	190	24	126
Coloring-matters from diazoamido compounds. Production of	J. Wolff	277,182	May 8	849	.....	23	1777
Coloring-matters. Manufacture of	A. Bernthsen	282,836	Aug. 7	430	.....	24	576
Coloring-matters. Manufacture of	L. Limpach	280,317	June 26	2094	.....	23	2505
Coloring-matters. Obtaining	C. D. Ekman	282,971	Aug. 14	587	.....	24	612
Colter-bracket	J. Oliver	284,322	Sept. 4	202	57	24	938
Colter. Caster-	B. C. Bradley	285,790	Oct. 2	12	4	25	4
Colter-cleaner	F. E. Jeanjaquet	288,442	Nov. 13	828	224	25	660
Colter hub. Plow-	C. R. Hartman	278,949	June 5	413	113	23	2194
Colter hub. Wheel-	C. R. Hartman	278,950	June 5	413	113	23	2194
Colter. Plow-	G. H. Bunch	284,810	Sept. 11	805	225	24	1047
Colter. Plow-	D. W. Copeland	270,750	Jan. 16	1148	328	23	239
Colter. Rolling	H. M. Skinner	287,733	Oct. 30	2493	671	25	483
Colter. Rolling	H. M. Skinner	288,672	Nov. 20	1113	306	25	716
Colter. Rolling landside-	G. B. St. John	287,336	Oct. 23	1970	538	25	376
Colter. Rotary	F. J. Underwood	290,148	Dec. 11	955	270	25	1063
Colter. Rotary	S. M. Weston and C. T. Shanner	272,368	Feb. 13	969	270	23	620
Colters. Device for sharpening plow-	V. A. Mayberry	285,287	Sept. 18	1381	390	24	1157
Comb: *See* Curry-comb.							
Comb	P. J. Cullinan	279,227	June 12	765	211	23	2264
Comb and brush. Combined	B. M. Wilkerson	288,534	Nov. 13	940	256	25	679

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Combing-machine	I. Best	287,498	Oct. 30	2173	590	25	422
Combing wool, &c. Machine for	C. Fletcher	271,325	Jan. 30	1852	537	23	374
Combination-lock	J. W. Allen	282,691	Aug. 7	260	75	24	544
Combination-lock	W. B. Atkinson	277,188	May 8	854	227	23	1778
Combination-lock	H. Lemmon	280,488	July 3	191	50, 51	24	35
Combination-lock	J. H. and T. D. Morris	269,954	Jan. 2	157	46	23	33
Commode	J. Fink and T. B. Branson	290,983	Dec. 25	2064	568	25	1969
Commode	J. Rundback	281,203	July 10	1073	295	24	196
Commode	E. Sullivan and R. Tobin	289,168	Nov. 27	1717	479	25	831
Compass and apparatus for reading its indications. Clinometer-	E. F. Macgeorge	281,772	July 24	1811	495	24	334
Compass. Mariner's	E. Bisson	289,209	Nov. 27	1772	491	25	841
Compass. Recording-	R. Pickwell	272,765	Feb. 20	1488	419	23	716
Compass. Surveyor's	T. F. Randolph	282,117	July 31	2259	620	24	415
Compasses	J. Neimeyer	275,403	Apr. 10	709	189	23	1356
Compasses and calipers. Combined	G. P. Conant	288,163	Nov. 6	455	127	25	567
Composing-stick	A. Danziger	279,352	June 12	927	259	23	2290
Composing-stick	W. H. Golding	278,700	June 5	31	9	23	2130
Composite washer	C. A. Rodney	271,365	Jan. 30	1915	553	23	385
Compound engine	H. D. Dunbar	276,368	Apr. 24	1926	534, 535	23	1580
Compound for lining and coating tubes, cylinders, &c., also for joint-packing, taking impressions, making castings, &c. Indestructible	I. R. Blumenberg	275,123	Apr. 3	322	.....	23	1222
Compressing dry and plastic materials. Machine for	C. Killgore	276,828	May 1	379	101	23	1692
Compressing engine or pump	W. M. Wood and W. L. Ballie	278,068	May 22	1891	518	23	1971
Compressing lime, &c., into solid or cohesive form. Machinery or apparatus for	C. S. Smith	276,487	Apr. 24	2072	575	23	1605
Compressing plastic and other materials. Machine for	C. Hemje and T. C. Brecht	279,384	June 12	976	271	23	2297
Compressing pulverized material	C. Hemje	287,128	Oct. 23	1706	467	25	329
Compressing pulverized substances. Machine for	O. E. Weber	289,945	Dec. 11	709	200, 201	25	1018
Concentrator	D. H. Anderson	285,098	Sept. 18	1160	324, 325	24	1117
Concentrator	G. A. Metcalf	286,050	Oct. 2	332	92	25	61
Concentrator	C. H. Wetzel	290,825	Dec. 25	1855	513	25	1235
Condenser	F. A. Wilmans	282,020	July 24	2116	580	24	396
Condenser and cooler. Separating	F. Sonier	278,056	May 22	1881	514	23	1969
Condenser. Injector-	J. Wheelock	269,979	Jan. 2	182	53	23	38
Condenser. Injector-	J. Wheelock	278,476	May 29	2442	666	23	2075
Condenser. Jet-	E. Körting	285,822	Oct. 2	47	15	25	10
Condenser. Steam-	H. A. Campbell	277,457	May 15	1171	315	23	1840
Condenser. Steam-	C. A. Dixon	276,526	Apr. 24	2126	591	23	1614
Condenser. Steam-	B. T. Stowell	285,703	Sept. 25	1880	536	24	1253
Condenser. Steam-engine	W. A. Miles	280,213	June 26	1959	551, 552	23	2482
Condenser. Steam-jet	L. Schutte and J. Goehring	285,846	Oct. 2	80	24	25	16
Condenser. Steam-pump	W. A. Miles	280,212	June 26	1958	551	23	2481
Condenser. Surface-	A. W. Robertson	281,927	July 24	2005	549	24	368
Condenser-tube follower	W. E. Todd	288,891	Nov. 20	1382	381	25	764
Condenser tubes. Gland for surface-	J. F. Tolmer	277,557	May 15	1293	347	23	1860
Condensers. Injection-regulator for steam-	T. Blass	289,609	Dec. 4	296	83	25	940
Condensing certain gaseous compounds	J. Henderson	283,342	Aug. 14	1048	295	24	696
Condensing steam and heating fluids. Apparatus for	E. Theisen	285,936	Oct. 2	203	57, 58	25	39
Conduit and making the same. Tube-lined cement-	C. Detrick	288,033	Nov. 6	308	87	25	560
Conduits of plastic or semi-plastic material. Machine for making lined	C. Detrick	288,034	Nov. 6	309	87	25	560
Conduits of concrete. Apparatus for forming continuous	W. M. Campbell	272,411	Feb. 20	1044	292	23	637
Confection	J. S. Dunham	281,849	July 24	1912	.....	24	352
Confection-grinding apparatus	J. B. Rivera	288,860	Nov. 20	1343	369	25	757
Confections. Machine for making	J. Lutted	284,136	Aug. 28	2043	568	24	891
Confectionery	P. Richter	279,812	June 19	1473	413	23	2389
Confectionery and pill coating and rounding machine	T. Daniels	278,780	June 5	143	42, 43	23	2147
Confectionery icing-machine	J. H. Mitchell	271,897	Feb. 6	372	103	23	506
Confectionery, &c. Machine for molding or shaping	O. R. Chase	279,131	June 12	660	181	23	2246
Confectionery, &c. Machine for molding or shaping	O. R. Chase	279,132	June 12	662	181, 182	23	2246
Confectionery, &c. Machine for molding, shaping, and combining	O. R. Chase	279,133	June 12	664	182, 183	23	2247
Congelation of water, &c. Facilitating the	O. Guthrie. (Reissue)	10,283	Feb. 6	531	142	23	532
Connecting-rod and pitman	J. B. Lang	290,332	Dec. 18	1195	335	25	1113
Consolidating loose and bulky material into solid blocks. Machine for	W. H. Smith	275,866	Apr. 17	1306	359, 360, 361	23	1465
Converter. Bessemer	T. Crowe	283,577	Aug. 21	1341	374	24	754
Convertible chair	E. H. Bolgiano	277,871	May 22	1664	454	23	1932
Convertible chair	E. H. Bolgiano	280,711	July 3	447	128	24	80
Convertible chair	E. H. Bolgiano	282,154	July 31	2305	633	24	423
Conveyer	W. H. Felthousen	275,758	Apr. 10	1164	319	23	1433
Conveyer	F. I. Pearce	285,664	Sept. 25	1833	523	24	1244
Conveyer	S. Stutz	289,466	Dec. 4	109	32	25	906
Conveyer for mill products	R. Craik	275,153	Apr. 3	354	97	23	1288
Cooker. Feed-	J. June and L. Falk	284,861	Sept. 11	862	242	24	1057
Cooker. Steam-	A. Sherman	273,901	Mar. 13	852	231	23	968
Cooker. Steam-	T. F. Timby	273,913	Mar. 13	866	235	23	990
Cooker. Steam	C. S. West	284,104	Aug. 28	2000	557	24	884
Cooking apparatus	H. L. Howse	271,463	Jan. 30	2041	587	23	408
Cooking apparatus. Steam	J. E. Welling	275,302	Apr. 3	535	146	23	1317
Cooking-boiler. Steam	A. E. Kuhns and G. D. Beattie	274,503	Mar. 27	1645	457	23	1139
Cooking-cabinet	A. Segal	273,169	Feb. 27	2006	564	23	813
Cooking-utensil	J. Campbell	284,608	Sept. 11	549	155, 156	24	1003
Cooking utensil	J. Eyer, Jr	281,042	July 10	867	241	24	160

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Dr'g.	Official Gazette. Vol.	Page.
Cooking-utensil	M. C. Lockwood	282,542	Aug. 7	79	23	24	513
Cooking-utensil	C. P. Simpson and S. Wilson	286,062	Oct. 2	373	103	25	68
Cooking utensil	C. W. Taylor	274,408	Mar. 20	1494	412	23	1107
Cooking-utensil lifter	J. B. Fitzpatrick	280,596	July 3	311	87	24	56
Cooking-vessel. Steam	J. Ebbert	280,591	July 3	306	85	24	55
Cool atmosphere in rooms and apartments. Producing a	H. D. Cogswell	272,653	Feb. 20	1351	379	23	691
Cooler: *See* Beer-cooler. Candy-cooler. Coffee-cooler. Evaporative cooler. Grain-cooler. Lard-cooler. Liquid-cooler. Milk-cooler. Water-cooler.							
Cooler and filter. Combined	S. Kalfus	274,339	Mar. 20	1413	387	23	1093
Cooler for liquids and solids	E. Johnson and J. Barnes	290,687	Dec. 25	1671	460	25	1201
Cooler for mash and other liquids	P. N. Bardo and T. Ford	270,367	Jan. 9	652	191	23	137
Cooling and freezing liquids. Apparatus for	H. Egells	272,667	Feb. 20	1366	383	23	694
Cooling and ventilating buildings. Apparatus for	C. A. Van Cort	282,474	July 31	2710	746	24	492
Cooling apparatus	H. Stollwerck	277,804	May 15	1577	431	23	1910
Cooling beer, &c. Apparatus for	J. W. Schorr	274,830	Mar. 27	2030	565	23	1208
Cooling-board. Undertaker's	G. T. Townsend	277,961	May 22	1763	481	23	1948
Cooling device. House-	A. Zerban	269,963	Jan. 2	187	54	23	39
Cooling lard and like materials	E. Kells	284,212	Sept. 4	72	20	24	917
Cooling liquids. Apparatus for	E. E. Duryea and P. H. Grimm	271,436	Jan. 30	2000	577	23	401
Cooling or drying granular materials. Apparatus for	H. E. Niese and G. Dinkel	278,356	May 29	2298	628, 629	23	2050
Cooling water. Apparatus for	R. M. Downie	285,472	Sept. 25	1607	451	24	1202
Coop. Chicken-	E. L. Nash	290,346	Dec. 18	1211	339	25	1116
Coop. Poultry-	H. J. Haight	270,307	Jan. 9	568	167	23	121
Coop. Poultry-	H. J. Haight	280,815	July 10	597	167	24	112
Coop. Poultry-	F. M. Woolard	275,314	Apr. 3	550	149, 150	23	1320
Coping for walls	E. C. Clark	278,656	May 29	2650	727	23	2113
Cops. Apparatus for rewinding yarn from broken or damaged	R. L. Carr	276,668	May 1	159	41	23	1653
Copy-holder	A. Gerard	281,759	July 24	1795	490	24	331
Copy-holder and book-rest. Combined	G. Weinschenk	289,195	Nov. 27	1754	487	25	838
Copy-holder for printers	L. W. Sunderland	283,039	Aug. 14	675	190	24	627
Copying and printing press	F. D. Belknap	286,677	Oct. 16	1129	304, 305	25	220
Copying-book. Manifold	J. R. Carter. (Reissue)	10,359	July 24	2127	583	24	388
Copying composition	H. S. Myers	287,457	Oct. 30	2121	576	25	412
Copying-press	J. S. Sammons	277,946	May 22	1746	476	23	1945
Copying-press	P. Schneider	271,525	Jan. 30	2116	608	23	421
Copying press. Letter-	E. Cope	289,963	Dec. 11	760	214	25	1028
Copying-presses. Cloth-steeper for	J. D. McIntosh	284,460	Sept. 4	366	102	24	966
Copying-roller	C. E. Baldwin	274,549	Mar. 27	1702	472	23	1149
Cord-coating machinery	R. E. Johnston	289,773	Dec. 4	495	137, 138	25	972
Cord or twine elevator or holder. Automatic	G. G. Cook	272,211	Feb. 13	776	215	23	586
Cord, tape, &c. Device for holding	C. F. Sleeper	278,615	May 29	2609	711	23	2104
Cordage, webbing, &c. Machine for making	J. P. Tolman	276,201	Apr. 24	1711	473	23	1543
Core-box	R. M. Johnson	273,095	Feb. 27	1919	537	23	797
Core compound	W. T. Bausmith	270,625	Jan. 16	963	.....	23	209
Core or center. Contractible	W. H. Hoopes and G. Paist	278,551	May 29	2533	691	23	2091
Cores and molds. Apparatus for forming	F. Shickle	289,037	Nov. 27	1566	432	25	804
Cores. Forming	S. J. Adams	272,612	Feb. 20	1298	362	23	682
Cork and screw nozzle. Combined	E. Norton	287,046	Oct. 23	1603	441	25	309
Cork. Artificial	C. Grunzweig and P. Hartmann	275,904	Apr. 17	1350	.....	23	1473
Cork-extractor	R. Morgan	270,095	Jan. 2	307	91	23	63
Cork puller or screw	F. Cappel	287,504	Oct. 30	2181	592	25	423
Cork-turner	G. W. Korn	283,900	Aug. 28	1728	487	24	836
Corks from bottles. Drawing	J. E. Berlien	278,388	May 29	2336	638	23	2057
Corks in bottles. Machine for wiring	G. C. Coon	273,964	Mar. 13	924	254	23	1000
Corks or bungs from bottles, casks, &c. Withdrawing	F. W. Russell	273,897	Mar. 13	847	230	23	987
Corking-machine	F. G. Riley	279,813	June 19	1473	413, 414	23	2389
Corking machine. Bottle-	C. Pfannenstiehl	274,221	Mar. 20	1258	347	23	1066
Corkscrew	W. Bennit	277,442	May 15	1154	310	23	1837
Corkscrew	M. Green	276,804	May 1	350	94	23	1687
Corkscrew	T. M. Strait	279,202	June 12	738	202	23	2259
Corkscrew	T. M. Strait	279,203	June 12	739	203	23	2259
Corkscrew	J. W. White	280,697	July 3	431	122	24	77
Corkscrew	C. T. Williamson	274,539	Mar. 27	1690	469	23	1147
Corkscrew. Hollow	S. T. McDougall	285,143	Sept. 18	1222	343	24	1127
Corkscrew. Lever-	C. F. A. Wienke	283,731	Aug. 21	1520	429	24	789
Corkscrews to bottles. Attaching	J. E. Berlien	279,216	June 12	750	207	23	2261
Corn and bunion shield	J. J. Georges	281,487	July 17	1439	394	24	265
Corn and fodder binding device	T. G. Brooke	277,214	May 8	882	234	23	1783
Corn and other grain. Implement for shocking Indian-	T. G. Conkling	285,395	Sept. 25	1518	427, 428	24	1186
Corn crushing and splitting machine	E. A. Porter	285,512	Sept. 25	1651	464	24	1210
Corn cutter. Ear-	J. N. Howser	277,284	May 8	959	258	23	1798
Corn cutter. Green-	E. M. C. Anderson	287,080	Oct. 23	1647	452	25	318
Corn. Device for hanging seed-	A. Belding	276,755	May 1	296	76	23	1676
Corn-drill	J. D. Arras	282,433	July 31	2663	730	24	485
Corn-dropping attachment	I. H. Athey	276,151	Apr. 24	1651	456	24	1534
Corn from the cob. Machine for cutting green	J. W. Brown, Jr	273,457	Mar. 6	280	76	23	881
Corn from the cob. Machine for cutting green	D. E. Longsdorf	276,054	Apr. 17	1525	420	23	1503
Corn from the cob. Machine for cutting green	J. A. Smith	279,833	June 19	1501	420	23	2394
Corn from the cob. Machine for cutting green	S. D. Warfield	281,588	July 17	1556	426, 427	24	285
Corn-husker	T. P. Fletcher	287,269	Oct. 23	1886	516	25	361
Corn husker, sheller, and separator. Combined	C. Roberts	278,824	June 5	201	58, 59	23	2157

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drgs.	Vol.	Page.
Combing-machine	I. Best	287,498	Oct. 30	2173	590	25	492
Combing wool, &c. Machine for	C. Fletcher	271,325	Jan. 30	1852	537	23	374
Combination-lock	J. W. Allen	292,691	Aug. 7	260	75	24	544
Combination-lock	W. B. Atkinson	277,188	May 8	854	227	23	1778
Combination-lock	H. Lemmon	280,488	July 3	191	50, 51	24	35
Combination-lock	J. H. and T. D. Morris	269,954	Jan. 2	157	46	23	33
Commode	J. Fink and T. B. Branson	290,983	Dec. 25	2064	568	25	1969
Commode	J. Rundback	281,203	July 10	1073	295	24	196
Commode	E. Sullivan and R. Tobin	289,168	Nov. 27	1717	479	25	831
Compass and apparatus for reading its indications. Clinometer-	E. F. Macgeorge	281,772	July 24	1811	495	24	334
Compass. Mariner's	E. Bisson	289,209	Nov. 27	1772	491	25	841
Compass. Recording-	R. Pickwell	272,765	Feb. 20	1488	419	23	716
Compass. Surveyor's	T. F. Randolph	282,117	July 31	2259	620	24	415
Compasses	J. Neimeyer	275,403	Apr. 10	709	189	23	1356
Compasses and calipers. Combined	G. P. Conant	288,163	Nov. 6	455	127	25	587
Composing-stick	A. Danziger	279,352	June 12	927	259	23	2280
Composing-stick	W. H. Golding	278,700	June 5	31	9	23	2130
Composite washer	C. A. Rodney	271,365	Jan. 30	1915	553	23	385
Compound engine	H. D. Dunbar	276,368	Apr. 24	1926	534, 535	23	1580
Compound for lining and coating tubes, cylinders, &c., also for joint-packing, taking impressions, making castings, &c. Indestructible	I. R. Blumenberg	275,123	Apr. 3	322	.....	23	1222
Compressing dry and plastic materials. Machine for	C. Killgore	276,828	May 1	379	101	23	1692
Compressing engine or pump	W. M. Wood and W. L. Ballie	278,068	May 22	1891	518	23	1971
Compressing lime, &c., into solid or cohesive form. Machinery or apparatus for	C. S. Smith	276,487	Apr. 24	2072	575	23	1605
Compressing plastic and other materials. Machine for	C. Hemje and T. C. Brecht	279,384	June 12	976	271	23	2297
Compressing pulverized material	C. Hemje	287,128	Oct. 23	1706	467	25	339
Compressing pulverized substances. Machine for	O. E. Weber	289,945	Dec. 11	709	200, 201	25	1018
Concentrator	D. H. Anderson	285,098	Sept. 18	1160	324, 325	24	1117
Concentrator	G. A. Metcalf	286,050	Oct. 2	332	92	25	61
Concentrator	C. H. Wetzel	290,825	Dec. 25	1855	513	25	1235
Condenser	F. A. Wilmans	282,020	July 24	2116	580	24	366
Condenser and cooler. Separating	F. Sonier	278,056	May 22	1881	514	23	1969
Condenser. Injector-	J. Wheelock	269,979	Jan. 2	189	53	23	38
Condenser. Injector-	J. Wheelock	278,476	May 29	2442	668	23	2075
Condenser. Jet-	E. Körting	285,822	Oct. 2	47	15	25	10
Condenser. Steam-	H. A. Campbell	277,457	May 15	1171	315	23	1840
Condenser. Steam-	C. A. Dixon	276,526	Apr. 24	2126	591	23	1614
Condenser. Steam-	B. T. Stowell	285,703	Sept. 25	1880	536	24	1253
Condenser. Steam-engine	W. A. Miles	280,213	June 26	1959	551, 552	23	2482
Condenser. Steam-jet	L. Schutte and J. Goehring	285,846	Oct. 2	80	24	25	16
Condenser. Steam-pump	W. A. Miles	280,212	June 26	1958	551	23	2481
Condenser. Surface-	A. W. Robertson	281,927	July 24	2005	549	24	368
Condenser-tube follower	W. E. Todd	288,891	Nov. 20	1382	381	25	764
Condenser tubes. Gland for surface-	J. F. Tolmer	277,557	May 15	1293	347	23	1860
Condensers. Injection-regulator for steam-	T. Blass	289,609	Dec. 4	296	83	25	940
Condensing certain gaseous compounds	J. Henderson	283,342	Aug. 14	1048	295	24	696
Condensing steam and heating fluids. Apparatus for	E. Theisen	285,936	Oct. 2	203	57, 58	25	39
Conduit and making the same. Tube-lined cement	C. Detrick	288,033	Nov. 6	308	87	25	560
Conduits of plastic or semi-plastic material. Machine for making lined	C. Detrick	288,034	Nov. 6	309	87	25	560
Conduits of concrete. Apparatus for forming continuous	W. M. Campbell	272,411	Feb. 20	1044	292	23	637
Confection	J. S. Dunham	281,849	July 24	1912	.....	24	352
Confection-grinding apparatus	J. B. Rivera	288,860	Nov. 20	1343	369	25	757
Confections. Machine for making	J. Lutted	284,136	Aug. 28	2043	568	24	891
Confectionery	P. Richter	279,812	June 19	1473	413	23	2389
Confectionery and pill coating and rounding machine	T. Daniels	278,780	June 5	143	42, 43	23	2147
Confectionery icing-machine	J. H. Mitchell	271,897	Feb. 6	372	103	23	506
Confectionery, &c. Machine for molding or shaping	O. R. Chase	279,131	June 12	660	181	23	2246
Confectionery, &c. Machine for molding or shaping	O. R. Chase	279,132	June 12	662	181, 182	23	2246
Confectionery, &c. Machine for molding, shaping, and combining	O. R. Chase	279,133	June 12	664	182, 183	23	2247
Congelation of water, &c. Facilitating the	O. Guthrie. (Reissue)	10,283	Feb. 6	531	142	23	532
Connecting-rod and pitman	J. B. Lang	290,332	Dec. 18	1195	335	25	1113
Consolidating loose and bulky material into solid blocks. Machine for	W. H. Smith	275,866	Apr. 17	1306	359, 360, 361	23	1465
Converter. Bessemer	T. Crowe	283,577	Aug. 21	1341	374	24	754
Convertible chair	E. H. Bolgiano	277,871	May 22	1664	454	23	1932
Convertible chair	E. H. Bolgiano	280,711	July 3	447	128	24	80
Convertible chair	E. H. Bolgiano	282,154	July 31	2305	633	24	423
Conveyer	W. H. Felthousen	275,758	Apr. 10	1164	319	23	1433
Conveyer	F. I. Pearce	285,664	Sept. 25	1833	523	24	1244
Conveyer	S. Stutz	289,466	Dec. 4	109	32	25	906
Conveyer for mill products	R. Craik	275,153	Apr. 3	354	97	23	1288
Cooker. Feed-	J. June and L. Falk	284,661	Sept. 11	862	242	24	1057
Cooker. Steam-	A. Sherman	273,901	Mar. 13	852	231	23	988
Cooker. Steam-	T. F. Timby	273,913	Mar. 13	866	235	23	990
Cooker. Steam	C. S. West	284,104	Aug. 28	2000	557	24	884
Cooking apparatus	H. L. Howse	271,463	Jan. 30	2041	587	23	408
Cooking apparatus. Steam	J. E. Welling	275,302	Apr. 3	535	146	23	1317
Cooking-boiler. Steam	A. E. Kuhns and G. D. Beattie	274,503	Mar. 27	1645	457	23	1139
Cooking-cabinet	A. Segal	273,169	Feb. 27	2006	564	23	813
Cooking-utensil	J. Campbell	284,608	Sept. 11	549	155, 156	24	1003
Cooking utensil	J. Eyer, Jr	281,042	July 10	867	241	24	160

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cooking-utensil	M. C. Lockwood	282,542	Aug. 7	79	23	24	513
Cooking-utensil	C. P. Simpson and S. Wilson	286,082	Oct. 2	373	103	25	68
Cooking utensil	C. W. Taylor	274,408	Mar. 20	1494	412	23	1107
Cooking-utensil lifter	J. B. Fitzpatrick	280,596	July 3	311	87	24	56
Cooking-vessel. Steam	J. Ebbert	280,591	July 3	306	85	24	55
Cool atmosphere in rooms and apartments. Producing a	H. D. Cogswell	272,653	Feb. 20	1351	379	23	691
Cooler: *See* Beer-cooler. Candy-cooler. Coffee-cooler. Evaporative cooler. Grain-cooler. Lard-cooler. Liquid-cooler. Milk-cooler. Water-cooler.							
Cooler and filter. Combined	S. Kalfus	274,339	Mar. 20	1413	387	23	1093
Cooler for liquids and solids	E. Johnson and J. Barnes	290,687	Dec. 25	1671	460	25	1201
Cooler for mash and other liquids	P. N. Bardo and T. Ford	270,367	Jan. 9	652	191	23	137
Cooling and freezing liquids. Apparatus for	H. Egells	272,667	Feb. 20	1366	383	23	694
Cooling and ventilating buildings. Apparatus for	C. A. Van Cort	282,474	July 31	2710	746	24	492
Cooling apparatus	H. Stollwerck	277,804	May 15	1577	431	23	1910
Cooling beer, &c. Apparatus for	J. W. Schorr	274,830	Mar. 27	2030	565	23	1208
Cooling-board. Undertaker's	G. T. Townsend	277,961	May 22	1763	481	23	1948
Cooling device. House-	A. Zerban	269,983	Jan. 2	187	54	23	39
Cooling lard and like materials	E. Kells	284,212	Sept. 4	72	20	24	917
Cooling liquids. Apparatus for	E. E. Duryea and P. H. Grimm	271,436	Jan. 30	2000	577	23	401
Cooling or drying granular materials. Apparatus for	H. E. Niese and G. Dinkel	278,356	May 29	2298	628, 629	23	2050
Cooling water. Apparatus for	R. M. Downie	285,472	Sept. 25	1607	451	24	1202
Coop. Chicken-	E. L. Nash	290,346	Dec. 18	1211	339	25	1116
Coop. Poultry-	H. J. Haight	270,307	Jan. 9	568	167	23	121
Coop. Poultry-	H. J. Haight	280,815	July 10	597	167	24	112
Coop. Poultry-	F. M. Woolard	275,314	Apr. 3	550	149, 150	23	1390
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				Spec.	Dr'g.	Vol.	Page.
Corn-husking chair	J. Hansel	281,966	July 17	1161	321	24	219
Corn-husking machine	W. Washington	288,173	Aug. 14	832	232 233	24	654
Corn in the stalk and separating the kernels. Reducing	S. P. Goddard	290,571	Dec. 18	1524	419	25	1170
Corn off the cob. Machine for cutting green	H. F. Zehnder	278,210	May 22	2078	572 573	23	2003
Corn-sheller	H. W. Cornell	284,388	Sept. 4	282	78	24	952
Corn-sheller	C. P. Ferrier	275,623	Apr. 10	993	268 269	23	1404
Corn-sheller	J. R. Hamilton	281,868	July 24	1932	528 529	24	355
Corn-sheller	G. H. Pattison	275,259	Apr. 3	479	133	23	1308
Corn-sheller	G. Prichard	287,718	Oct. 30	2473	667	25	480
Corn-sheller	J. S. Pursley	281,921	July 24	1998	547	24	367
Corn-sheller	J. T. Wilson	284,991	Sept. 11	1019	286	24	1086
Corn-sheller elevator	W. O. Gotchall	288,426	Nov. 13	810	219	25	657
Corn-sheller, feed-grinder, and horse-power. Combined	J. S. Tarr	272,495	Feb. 20	1151	323	23	656
Corn-sheller. Hand	G. W. Gordon	274,588	Mar. 27	1753	486	23	1158
Corn-sheller. Hand	J. G. Warren	280,887	July 10	679	191	24	127
Corn silker. Green	C. P. Baile	287,083	Oct. 23	1650	453	25	318
Cornstalk-cutter	G. J. Contancin, J. M. Scott, and J. Stumpff.	281,025	July 10	845	235	24	157
Cornet	G. W. L. Schweich	284,492	Sept. 4	403	113	24	972
Cornet mouth-piece	H. E. Jones	275,918	Apr. 17	1366	376	23	1476
Cornet tremolo attachment	W. S. Ditterline	282,448	July 31	2685	736	24	488
Cornice	F. J. Geissinger	271,058	Jan. 23	1519	438	23	309
Cornice	J. M Montgomery, Jr	289,299	Nov. 27	1874	520	25	862
Cornice	S. R. Scottron	270,851	Jan. 16	1262	364	23	262
Cornice. Adjustable	A. D. Field	274,444	Mar. 20	1551	425	23	1116
Cornice. Adjustable window	W. C. Hamnett	270,425	Jan. 9	730	214	23	152
Cornice and cornice-pole. Combined	J. W. Campbell	281,340	July 17	1252	348	24	234
Cornice and curtain-pole. Combined window	J. M. Hough	282,323	July 31	2520	691	24	459
Cornice-hook	T. C. Richards	283,280	Aug. 14	970	271	24	680
Cornice-packing case	A. D. Field	289,927	Jan. 2	123	37	23	26
Cornice-pole and curtain-suspender	C. F. Grimmett and J. Cook	288,231	Nov. 13	545	150	25	612
Cornice-pole joint	W. H. Edsall	288,319	Nov. 13	658	182	25	630
Cornice-pole support	J. Day	278,892	June 5	295	85	23	2174
Cornice. Window	F. C. Burt	273,459	Mar. 6	283	77	23	882
Cornice. Window	J. W. Campbell	273,814	Mar. 13	748	203	23	970
Cornice. Window	E. Kügemann	271,718	Feb. 6	157	43	23	467
Cornice. Window	M. Linz	289,544	Dec. 4	214	60	25	924
Cornice. Window-curtain	C. Eberly	279,232	June 12	770	212	23	2264
Corpse-lifter	J. M. Jacobsen	286,202	Oct. 9	518	143	25	106
Corset	C. F. Allen	270,360	Jan. 9	635	187	23	134
Corset	C. M. A. Barry	281,659	July 24	1657	451 452	24	397
Corset	A. H. Bowers	290,843	Dec. 25	1874	517	25	1238
Corset	M. P. Bray	271,780	Feb. 6	235	66	23	481
Corset	M. P. Bray	275,982	Apr. 17	1440	397	23	1490
Corset	M. P. Bray	279,323	June 12	882	246	23	2283
Corset	M. P. Bray	280,565	July 3	274	75	24	49
Corset	M. P. Bray	289,969	Dec. 11	741	209	25	1024
Corset	R. V. Cable	270,739	Jan. 16	1135	325 326	23	237
Corset	C. N. Chadwick	274,272	Mar. 20	1319	364	23	1077
Corset	F. D. Cooke	279,345	June 12	919	256	23	2289
Corset	F. D. Cooke	281,462	July 17	1406	386	24	260
Corset	J. E. Doolittle and H. C. Sherwood	273,042	Feb. 27	1849	518	23	785
Corset	S. B. Ferris	271,618	Feb. 6	42	10, 11	23	448
Corset	J. H. Hayward	276,397	Apr. 24	1967	544	23	1587
Corset	J. Henninger	270,062	Jan. 2	2?7	82	23	57
Corset	C. W. Higby	275,652	Apr. 10	1030	278	23	1410
Corset	C. W. Higby	275,653	Apr. 10	1031	278	23	1410
Corset	J. A. House	273,280	Mar. 6	41	13	23	841
Corset	E. C. Hurlbut	270,222	Jan. 9	472	138	23	103
Corset	M. F. Linquist	280,638	July 3	361	100	24	63
Corset	W. Ritzmann	273,393	Mar. 6	201	54	23	868
Corset	S. H. Rosenberg	274,387	Mar. 20	1467	402	23	1102
Corset	H. S. Strauss	271,377	Jan. 30	1996	557	23	387
Corset	I. Strouse	274,405	Mar. 20	1491	411	23	1107
Corset	J. C. Tallman	279,041	June 5	525	143	23	2213
Corset	J. Waterman	290,822	Dec. 25	1852	512	25	1234
Corset	C. H. Williams	272,179	Feb. 13	737	203 204	23	579
Corset	C. H. Williams	276,114	Apr. 17	1605	442	23	1517
Corset. Brace	V. Whittington	283,050	Aug. 14	688	193	24	629
Corset-clasp	M. P. Bray	277,671	May 15	1425	384	23	1882
Corset-clasp	T. C. Candlish	279,910	June 26	1600	449	23	2418
Corset-clasp	J. M. Cohn	288,022	Nov. 6	297	83	25	558
Corset-clasp	J. M. Cohn	288,023	Nov. 6	297	84	25	558
Corset-clasp	C. W. Foster	284,730	Sept. 11	707	198	24	1020
Corset-clasp	T. F. Gaynor	288,171	Nov. 6	464	130	25	588
Corset-clasp	M. W. Henius	278,430	May 29	2388	651	23	2066
Corset-clasp	C. F. Laufer	281,771	July 24	1810	494	24	334
Corset-clasp	A. Ottenheimer	276,978	May 1	578	152	23	1725
Corset-clasp fastening	W. F. Gilbert	287,660	Oct. 30	2395	646	25	465
Corset-clasp fastening and protector	T. C. Bates	287,997	Nov. 6	267	75	25	553
Corset fabric	J. G. Kienzle	281,519	July 17	1477	405	24	273
Corset-lacing	B. Baldwin	273,798	Mar. 13	724	196	23	967
Corset. Nursing	I. Strouse	285,704	Sept. 25	1881	536	24	1253
Corset-press	J. M. Bishop	284,533	Sept. 4	456	129	24	981
Corset-protector	S. R. Raffle	278,043	May 22	1867	510	23	1967

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Corset-spring	M. P. Bray	270,380	Jan. 9	667	196	23	140
Corset-spring	M. F. Linquist	286,453	Oct. 9	843	228	25	164
Corset-stay	A. Kelley	283,611	Aug. 21	1372	384	24	760
Corset stay-plate	J. A. Ray	281,792	July 24	1841	503	24	339
Corset-stiffener	E. K. Warren	286,749	Oct. 16	1221	330	25	236
Corsets. Apparatus for forming and shaping	J. A. House	288,637	Nov. 20	1068	294	25	709
Cosmetic wash	B. E. Buse	277,221	May 8	888	.....	23	1784
Cot	A. W. Martial	270,961	Jan. 23	1409	406	23	292
Cot. Folding	G. E. Bedell	274,455	Mar. 27	1567	429	23	1127
Cot. Folding	C. W. Powers, Jr.	273,306	Mar. 6	81	24	23	847
Cot. Folding	E. F. Vance	289,584	Dec. 4	267	75	25	934
Cotton and hay press	B. Babcock	277,101	May 8	745	196	23	1759
Cotton and hay press	H. M. Meetze	279,174	June 12	710	193, 194	23	2254
Cotton and hay press	W. D. Slauson	287,734	Oct. 30	2494	671, 672	25	483
Cotton and other fibers. Machine for cleaning	J. Graner	271,578	Jan. 30	2176	626	23	431
Cotton-buncher	J. L. Goodin	270,786	Jan. 16	1191	344	23	248
Cotton-chopper	J. H. Brown	276,557	May 1	14	4	23	1629
Cotton-chopper	W. S. Craig	271,801	Feb. 6	259	72	23	486
Cotton-chopper	W. J. Irwin	274,780	Mar. 27	1976	550	23	1198
Cotton-chopper	F. E. Kemp and E. A. Mock	276,599	May 1	71	19	23	1640
Cotton-chopper	W. H. Mercer	279,966	June 26	1673	470	23	2430
Cotton-chopper	M. S. Michaelis	270,824	Jan. 16	1233	356	23	256
Cotton-chopper	E. L. Mowrey	273,586	Mar. 6	448	121	23	911
Cotton-chopper	R. R. Pace	281,125	July 10	970	271	24	178
Cotton chopper and cultivator	B. J. Curry	284,389	Sept. 4	283	79	24	952
Cotton chopper and cultivator	F. A. Pettitt	277,777	May 15	1548	421	23	1905
Cotton chopper and scraper	W. R. Russell	281,205	July 10	1076	296	24	197
Cotton chopper, cultivator, and plow	H. C. White	284,930	Sept. 11	942	264	24	1072
Cotton-cleaner	C. W. Turner	275,095	Apr. 3	284	78	23	1275
Cotton-cleaner	W. Wimpee and J. C. Printup	283,733	Aug. 21	1522	429	24	789
Cotton cleaner and condenser	F. Baltzell	271,297	Jan. 30	1816	527	23	368
Cotton cleaner and condenser	W. H. Sawyer	286,334	Oct. 9	706	188	25	138
Cotton cleaner and feeder	A. J. Williams	284,151	Aug. 28	2065	572, 573	24	894
Cotton-cleaner and gin-feeder	Z. F. Nance	287,153	Oct. 23	1736	475, 476	25	335
Cotton cleaner. Seed-	A. T. Atherton	288,152	Nov. 6	440	124	25	584
Cotton-condenser	F. M. Sewell	280,868	July 10	659	185	24	123
Cotton-conveyer	A. D. Thomas	281,319	July 17	1227	340	24	230
Cotton, corn, and tobacco fender	M. F. Duncan and R. E. Coyle	290,009	Dec. 11	796	224	25	1033
Cotton, &c. Device for packing	D. C. Summers	280,333	June 26	2115	593	23	2508
Cotton elevator and distributer	S. W. Bartholomew	284,359	Sept. 4	245	68	24	946
Cotton elevator and distributer	A. D. Thomas	275,960	Apr. 17	1411	389	23	1485
Cotton-gathering machine	B. J. Curry	273,035	Feb. 27	1842	515	23	784
Cotton-gin	W. B. Burdine	271,570	Jan. 30	2168	624	23	430
Cotton-gin	T. Camp	277,223	May 8	889	237	23	1784
Cotton-gin	G. Forshag	277,417	May 8	1113	299	23	1824
Cotton-gin	R. R. Gwathmey	278,134	May 22	1963	544, 545	23	1987
Cotton-gin	C. H. Merry	285,144	Sept. 18	1222	343	24	1127
Cotton-gin	J. D. Milburn	274,806	Mar. 27	2003	557, 558	23	1203
Cotton-gin	J. D. Milburn	276,447	Apr. 24	2026	561	23	1598
Cotton-gin	G. N. Osgood	284,223	Sept. 4	87	24	24	919
Cotton-gin	D. S. Rogan	280,062	June 26	1815	511	23	2456
Cotton-gin and linter saws. Machine for filing	W. H. Blanchard	280,900	July 10	691	194, 195	24	128
Cotton-gin brush	T. Kihneman	273,692	Mar. 6	581	154	23	933
Cotton-gin building	B. F. Ferguson	273,048	Feb. 27	1854	519, 520	23	786
Cotton-gin cleaner and feeder combined	W. L. Crowson	279,720	June 19	1374	383, 384	23	2372
Cotton-gin feeder	W. O. Coleman	278,402	May 29	2351	643	23	2059
Cotton-gin feeder	M. L. Nix	274,961	Apr. 3	103	28	23	1242
Cotton-gin feeder	A. L. Stietenroth	278,195	May 22	2059	567	23	2000
Cotton-gin hopper	E. G. Horne	272,694	Feb. 20	1399	392, 393	23	700
Cotton-gin power	L. R. Nolan	276,454	Apr. 24	2035	565	23	1599
Cotton-gin rib	W. S. Anderson	278,073	May 22	1897	520	23	1972
Cotton-gin rib	W. Deering	289,996	Dec. 11	778	219	25	1030
Cotton-gin rib	W. Merritt	280,498	July 3	202	53	24	37
Cotton-gin rib	W. S. Reeder	290,471	Dec. 18	1387	383	25	1146
Cotton-gin rib	A. J. Williams	284,152	Aug. 28	2066	573	24	895
Cotton-gins. Feed-governor for	H. P. Schaefer	289,718	Dec. 4	439	123	25	963
Cotton-gins, mills, &c. Driving machinery for	W. H. Davis	277,240	May 8	912	244	23	1789
Cotton-opener	R. Kitson	289,004	Nov. 27	1519	420	25	796
Cotton opener and lapper	R. Kitson	272,709	Feb. 20	1416	397	23	703
Cotton-picker	G. N. Todd	271,160	Jan. 23	1644	473	23	330
Cotton-picker. Hand	E. V. D. Miller	280,651	July 3	376	105	24	66
Cotton-pickers. Vehicle for	J. T. Reid	273,157	Feb. 27	1990	560	23	810
Cotton-picking machine	C. C. Price, Jr.	279,799	June 19	1458	408, 409, 410	23	2387
Cotton-press	J. W. Hobbs	273,080	Feb. 27	1887	530	23	792
Cotton-press	W. B. Ingram	271,467	Jan. 30	2047	589	23	409
Cotton-press	E. M. Ivens	284,208	Sept. 4	65	18	24	916
Cotton-press	A. McKay	290,696	Dec. 25	1681	463	25	1203
Cotton-press	R. D. Thompson	284,259	Sept. 4	128	35, 36	24	926
Cotton-press	R. R. Tugwell	281,210	July 10	1081	297, 298	24	198
Cotton-press. Self-packing	L. C. Rummel and E. J. Fiedler	285,765	Sept. 25	1967	557	24	1267
Cotton-scraper	W. H. Mercer	281,103	July 10	935	262	24	173

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cotton scraper and cultivator	W. C. Thompson	290,814	Dec. 25	1841	509 510	25	1233
Cotton-seed-oil residue, &c. Utilizing	J. Longmore	284,313	Sept. 4	191	.....	24	937
Cotton separator and cleaner. Seed-	W. O. Coleman	278,401	May 29	2349	642	23	2059
Cotton separator and cleaner. Seed-	W. O. Coleman	281,671	July 24	1673	456	24	310
Cotton separator and cleaner. Seed-	W. O. Coleman	282,057	July 31	2166	594 595	24	401
Cotton-stalk chopper	L. B. Stith	281,577	July 17	1543	422	24	283
Cotton-stalk cutter	J. M. Stone	274,670	Mar. 27	1847	515	23	1176
Cotton thinner and cultivator	W. Wilkes	283,181	Aug. 14	844	236	24	656
Cough-sirup	S. R. Scoggins	283,029	Aug. 14	664	.....	24	625
Counter-machine	M. Hynes	285,134	Sept. 18	1207	339	24	1124
Counter-rail or arm-rest bracket	E. F. Seidel	281,405	July 17	1331	369	24	247
Counter-seat	J. Pullen	271,511	Jan. 30	2099	603	23	418
Counter-stiffener machine	J. L. Hatch	286,432	Oct. 9	819	222	25	159
Counters. Foot-railing for	J. Gaetje	285,403	Sept. 25	1526	430	24	1187
Countersink for bits	R. J. Welles	277,859	May 15	1641	447	23	1928
Counting and registering the revolutions of a rotating shaft. Instrument for	G. D. Kittoe	279,095	June 5	596	162	23	2225
Coupling:							
See Bell-cord coupling. Pipe and hose coupling.							
Belt-coupling. Pitman-coupling.							
Brake-rod coupling. Pump-rod coupling.							
Car-coupling. Railway-rail coupling.							
Carriage-coupling. Screw-conveyer coupling.							
Clothes-line coupling. Shaft-coupling.							
Crank-coupling. Shafting-coupling.							
Drop-light-pipe coupling. Swivel-coupling.							
Tank-coupling.							
Eccentric-coupling. Telegraph-wire coupling.							
Electrical-conductor coupling. Thill-coupling							
Trace-coupling.							
Faucet-coupling. Tube-coupling.							
Harness-coupling. Universal-joint coupling.							
Harrow-coupling. Vehicle-reach coupling.							
Hose-coupling. Wagon-reach coupling.							
Lightning-rod coupling. Whip-coupling.							
Wire-coupling.							
Pipe-coupling. Yoke-coupling.							
Coupling for bell-cords, &c	G. W. Nock	279,267	June 12	812	225	23	2272
Coupling for wires and electric conductors	H. F. Pumphrey	270,478	Jan. 9	790	231	23	164
Coupling-link	H. M. Jones	271,713	Feb. 6	151	42	23	466
Coupling-link	I. H. Trabue	270,860	Jan. 16	1270	367	23	263
Coupling-link. Spring	G. A. Baker	271,592	Feb. 6	9	3	23	442
Coupling-retainer	W. W. Nevegold	270,462	Jan. 9	771	226	23	160
Coupon-clipper	W. F. Stark	284,773	Sept. 11	759	211	24	1039
Coupon-shears	G. S. Van Pelt	274,998	Apr. 3	144	41	23	1250
Cover for chamber-pails, &c	H. Stone	287,189	Oct. 23	1785	489	25	343
Cover handle. Vessel-	J. Chaumont	276,772	May 1	315	82	23	1680
Cover. Pan-	S. C. Dowdell	287,425	Oct. 30	2083	566	25	404
Cover. Vessel-	A. F. Tripp	288,139	Nov. 6	428	120	25	582
Cover. Vessel-	S. J. and N. T. Wilson	286,755	Oct. 16	1227	331	25	238
Covering heated surfaces. Material for	E. H. Rust	283,819	Aug. 28	1637	461	24	820
Covering. Non-conducting	H. C. Goodell	274,313	Mar. 20	1373	376	23	1095
Covering. Non-conducting	G. Kelly	273,687	Mar. 6	576	153	23	932
Covering. Non-conducting	G. Kelly	278,559	May 29	2540	693	23	2092
Coverings. Lining for non-conducting	G. Kelly	273,688	Mar. 6	577	153	23	933
Cow-tail holder	I. C. Mayo	281,543	July 17	1502	412	24	276
Cracker-machine	D. H. Cornell and A. Schincke	281,464	July 17	1408	387	24	261
Cracker-machine	C. S. Fowler and L. A. Rockwell	288,989	Nov. 27	1503	416	25	794
Cracker-screen	C. H. Nichols	282,465	July 31	2702	743	24	491
Cradle	F. W. Barker	274,454	Mar. 27	1567	429	23	1137
Cradle	W. H. Burgess	281,966	July 24	2055	563	24	376
Cradle and seesaw. Combined	J. W. Hill	273,530	Mar. 6	371	98	23	898
Cradle. Grain-	G. W. Kemper and J. B. Cartwright	271,335	Jan. 30	1867	541	23	376
Cradle-motor	T. Logan	277,753	May 15	1518	412	23	1899
Cranberry-gatherer	D. Lumbert	289,846	Dec. 11	597	166	25	998
Cranberry-screen	W. F. Hammond	280,372	July 3	40	11	24	9
Crane	J. A. Caldwell	284,274	Sept. 4	144	40	24	928
Crane	T. W. Capen	271,311	Jan. 30	1830	531 532	23	371
Crane	S. H. Edgerly	282,869	Aug. 7	473	133	24	584
Crane	T. R. Morgan, Sr	290,260	Dec. 18	1096	305 306 307 308 309	25	1096
Crane and derrick. Traveling	J. Thompson	272,987	Feb. 27	1780	498	23	772
Crane. Brake mechanism for a trolley of a	T. A. Weston	272,608	Feb. 20	1293	360 361	23	680
Crane, derrick, &c. Traveling	J. Thompson	272,988	Feb. 27	1781	499	23	772
Crane. Hoisting-	J. Le Duke	290,074	Dec. 11	869	247	25	1047
Crane or derrick	W. H. Glennon	272,236	Feb. 13	808	225	23	592
Crane-swinging machinery	H. T. Stock	283,037	Aug. 14	673	189	24	627
Crane. Traveling	H. M. Barnhart and B. Huber	285,100	Sept. 18	1163	325 326	24	1117
Crane. Traveling	T. W. Capen	270,279	Jan. 9	533	156 157	23	114
Crane. Traveling	T. W. Capen	270,386	Jan. 9	672	197 198 199 200 201	23	141
Crane. Traveling	T. W. Capen	278,774	June 5	121	34	23	2144

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Crane. Traveling	T. W. Capen	278,775	June 5	122	34, 35	23	2144
Crane. Traveling	F. K. Kempson	279,765	June 19	1420	397	23	2380
Crank	J. Gosweiler	283,099	Aug. 14	747	210	24	640
Crank-coupling	J. R. Fry, Jr	290,565	Dec. 18	1518	418	25	1169
Crank-coupling	E. E. Hyatt	289,266	Nov. 27	1833	506	25	853
Crank-movement in steam-engines and other machinery.	J. M. Smith	273,624	Mar. 6	492	132	23	918
Crate: *See* Egg-crate. Fruit-crate.							
Crate. Chicken	J. S. Falconer	273,496	Mar. 6	325	88	23	889
Crate for fowls	T. F. Woodside	275,969	Apr. 17	1422	392	23	1487
Crate for fowls. Folding	T. F. Woodside	275,968	Apr. 17	1421	392	23	1487
Crate for transportation of window and plate glass	R. D. Flynn	271,827	Feb. 6	293	80	23	492
Crate or box. Folding shipping	J. McIntyre	276,850	May 1	405	107, 108	23	1697
Crate. Return	W. C. R. Smith and J. B. Morton	283,930	Aug. 28	1766	499	24	844
Crates. Form for making	R. Miller	285,053	Sept. 18	1109	309	24	1108
Cravat-supporter	F. Smiley	279,031	June 5	512	140	23	2210
Crayon-holder	J. Pusey	275,517	Apr. 10	855	232	23	1380
Crayon-holder. Automatic	C. Andrew	276,128	Apr. 17	1621	446	23	1520
Crayon-molds. Device for making	C. H. Bill	273,442	Mar. 6	259	70	23	877
Crayon or lead holder	H. C. Hunt	286,615	Oct. 16	1053	283	25	207
Cream and milk transporter	J. E. Baggott	285,724	Sept. 25	1914	543	24	1258
Cream. Apparatus for souring	N. C. Madsen and H. J. Nielsen	279,876	June 19	1555	435	23	2404
Cream-can	C. H. Blossom	283,958	Aug. 28	1802	510	24	851
Cream from milk. Raising	H. W. Kellogg	269,864	Jan. 2	51	16	23	13
Cream-gage	A. P. Petrehn	289,855	Dec. 11	606	169	25	1000
Cream of tartar. Apparatus for treating argols in the manufacture of	A. Dreyfus	277,016	May 8	629	165, 166	23	1740
Cream-puff filler	J. H. Mount	288,843	Nov. 20	1394	363	25	753
Cream-transportation tank	C. D. Elder	285,348	Sept. 18	1450	409	24	1169
Creamer	C. G. Graves	274,485	Mar. 27	1623	450	23	1135
Creamer	D. K. Pomeroy	276,460	Apr. 24	2043	568	23	1600
Creamer	A. Snyder	282,678	Aug. 7	241	70	24	541
Creamer. Centrifugal	H. F. Bond	286,769	Oct. 16	1245	337	25	241
Creamer. Centrifugal	L. B. Nielsen	281,916	July 24	1992	546	24	366
Creaming-can	F. W. Brainerd	284,172	Sept. 4	16	5	24	907
Creaming-machine. Centrifugal	H. Petersen	288,732	Nov. 20	1196	326	25	729
Creasing-machine	H. F. Osborne	276,271	Apr. 24	1792	498	23	1558
Creasing-wheel	H. F. Osborne	275,848	Apr. 17	1285	353	23	1461
Creel for spooling and warping machines	G. L. Tarr	287,338	Oct. 23	1971	538	25	377
Crib and table. Interconvertible	S. S. Burr	274,716	Mar. 27	1896	529	23	1184
Crib, chair, and commode. Combined	J. B. Rohrer	276,633	May 1	110	29	23	1646
Crib. Child's	C. S. Comins	286,686	Oct. 16	1144	308	25	223
Crib. Child's	I. R. Opdyke	275,070	Apr. 3	249	69	23	1268
Crib. Folding	C. S. Comins	274,467	Mar. 27	1580	433	23	1129
Crib. Folding	C. S. Comins	279,134	June 12	667	183	23	2247
Crib. Folding	M. Keating	273,102	Feb. 27	1928	540	23	798
Crib. Trundle	C. T. Shepard	274,982	Apr. 3	126	35	23	1247
Cribbing-plate	A. Quinque	287,577	Oct. 30	2284	618	25	444
Crimp-protector	G. C. Humphries	272,698	Feb. 20	1404	394	23	700
Crimping-forms. Machine for the manufacture of	J. W. D. Fifield	281,856	July 24	1918	524	24	353
Crimping-machine	J. Holmes	276,408	Apr. 24	1978	547, 548	23	1588
Crimping. Machine for radial	J. McCreary and D. R. Smith	284,749	Sept. 11	729	204	24	1034
Crimping. Machine for radial	J. McCreary and D. R. Smith	285,424	Sept. 25	1554	437, 438	24	1192
Crimping. Method of and machine for radial	D. R. Smith and J. McCreary	283,360	Aug. 14	1077	302, 303	24	701
Crimping-tool. Hand	J. Fishwick	271,052	Jan. 23	1513	436	23	309
Crochet needle	J. H. Doolittle	287,109	Oct. 23	1686	462	25	326
Croquet set	A. D. F. Farley	280,807	July 10	587	164	24	110
Cross-head guides. Machinery for grinding or polishing.	C. T. Parry	270,106	Jan. 2	319	94	23	65
Cross. Knights-Templar	S. E. Mosher	289,851	Dec. 11	603	168	25	999
Cross-tie. Iron	J. Parr	277,333	May 8	1023	274	23	1808
Crucible	G. Nimmo	271,105	Jan. 23	1579	454	23	319
Crucible and means for heating the same	J. E. Bott	285,214	Sept. 18	1299	365, 366	24	1141
Crucible-furnace. Gas	L. Stilwell	275,284	Apr. 3	510	141	23	1313
Crucible. Metal	M. and S. H. Darragh	282,279	July 31	2457	676	24	449
Crucible, muffle, &c	T. Egleston	284,287	Sept. 4	159	44	24	931
Crucibles. Protecting plumbago	W. Tatham	281,159	July 10	1009	.....	24	185
Crupper. Harness	J. Shaffer	277,516	May 15	1236	333	23	1851
Crupper-pad. Metallic	C. Tobias	273,641	Mar. 6	512	138	23	922
Crusher: *See* Clay-crusher. Clod-crusher. Ore-crusher. Ore and rock crusher. Rock-crusher. Rotary crusher.							
Crusher and pulverizer	M. A. Shepard	277,071	May 8	711	184	23	1753
Crushing and grinding machine	C. Kimplen	281,887	July 24	1956	534, 535, 536	24	360
Crushing and grinding machine	G. J. Shimer	287,876	Nov. 6	105	31, 32	25	526
Crushing and pulverizing apparatus	A. E. Griffiths	288,940	Nov. 20	1439	396	25	775
Crushing and pulverizing machine	G. Sibley	275,719	Apr. 10	1106	303	23	1423
Crushing-mill	F. A. Huntington	277,134	May 8	795	208, 209	23	1768
Crutch	A. Schoeninger	288,368	Nov. 13	735	199	25	643
Crutches, heels, &c. Rubber holder for	G. H. Thurzó	282,132	July 31	2283	626	24	419
Cuff	S. H. Haas	284,839	Sept. 11	837	234	24	1053
Cuff	I. P. Turner	289,973	Jan. 2	178	51, 52	23	37
Cuff and collar fastener	J. M. Williams	273,656	Mar. 6	530	143	23	995
Cuff-holder	J. F. Atwood	289,057	Nov. 27	1590	440	25	808

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cuff-holder	E. A. Robbins	277,612	May 15	1357	365	23	1870
Cuff-holder and sleeve-button. Combined	W. H. Hackett	272,240	Feb. 13	814	226	23	593
Culinary boiler	W. S. Fickett	285,351	Sept. 18	1453	400	24	1169
Culinary heater	W. H. Benson	271,774	Feb. 6	296	63	23	479
Culinary utensil	L. Haas	278,939	June 5	399	110	23	2191
Culinary vessel	H. B. Asbury, F. A. Neider, and G. Grossmann.	282,252	July 31	2427	667	24	444
Culinary vessel	F. Schifferle	271,744	Feb. 6	191	53	23	473
Culinary vessel	F. Schifferle	271,745	Feb. 6	192	53	23	473
Culinary vessel	J. A. Stabel	282,394	July 31	2607	716	24	475
Culinary vessel	E. A. Stears	273,629	Mar. 6	498	134	23	919
Cultivating-machine	J. A. Kay	273,101	Feb. 27	1996	539, 540	23	798
Cultivator	J. H. Albright	289,055	Nov. 27	1588	439	25	808
Cultivator	F. M. Allen	273,426	Mar. 6	238	64	23	875
Cultivator	G. Allen	269,987	Jan. 2	193	56	23	40
Cultivator	J. H. Allen	271,586	Feb. 6	3	1	23	441
Cultivator	J. H. Allen	288,292	Nov. 13	622	170	25	624
Cultivator	S. L. Allen	281,426	July 17	1357	374	24	251
Cultivator	E. B. Bellinger	290,960	Dec. 25	2022	558	25	1263
Cultivator	J. M. Blade	288,764	Nov. 20	1233	338	25	736
Cultivator	B. C. Bradley	270,629	Jan. 16	990	286, 287	23	210
Cultivator	A. E. Brooks	275,577	Apr. 10	926	251	23	1392
Cultivator	E. Case	270,887	Jan. 23	1311	379	23	276
Cultivator	J. B. Christian	284,379	Sept. 4	267	74	24	949
Cultivator	J. B. Christian	284,380	Sept. 4	268	75	24	949
Cultivator	J. W. Collins	276,160	Apr. 24	1662	458, 559	23	1535
Cultivator	J. W. Cook	290,539	Dec. 18	1478	408	25	1162
Cultivator	W. J. Davidson	282,852	Aug. 7	452	127	24	580
Cultivator	E. P. Davis	275,159	Apr. 3	362	99	23	1289
Cultivator	J. B. Day and T. J. Gregory	285,469	Sept. 25	1605	451	24	1202
Cultivator	S. and R. Day	274,920	Apr. 3	44	11	23	1233
Cultivator	A. W. Diefendorf and P. H. Merrill	271,432	Jan. 30	1998	576	23	401
Cultivator	J. B. Ennis	280,021	June 26	1744	489	23	2443
Cultivator	T. M. Flenniken	273,673	Mar. 6	556	148	23	929
Cultivator	W. J. Flowers	284,403	Sept. 4	299	84	24	954
Cultivator	S. French	289,824	Dec. 11	563	158	25	992
Cultivator	L. Gray	283,775	Aug. 28	1584	447, 448	24	812
Cultivator	E. T. Gregg	274,590	Mar. 27	1755	487	23	1158
Cultivator	A. Hall	282,885	Aug. 7	491	138	24	587
Cultivator	B. J. Hall and J. E. Mustard	284,734	Sept. 11	712	199	24	1031
Cultivator	R. D. Hall	289,093	Nov. 27	1632	451, 452	25	815
Cultivator	E. R. Ham	278,541	May 29	2520	688	23	2089
Cultivator	G. W. Hammond	278,543	May 29	2522	688	23	2089
Cultivator	J. C. Hart	273,071	Feb. 27	1878	527, 528	23	790
Cultivator	P. Hien and A. H. Grimm	284,960	Sept. 11	981	276	24	1079
Cultivator	J. H. Hoober	279,245	June 12	786	216	23	2267
Cultivator	H. Ives	290,059	Dec. 11	851	242	25	1043
Cultivator	J. C. and I. Jay and B. L. Chambers.	282,198	July 31	2366	651	24	432
Cultivator	T. B. Jewett	274,784	Mar. 27	1980	551	23	1199
Cultivator	F. H. Johnson	272,701	Feb. 20	1407	395	23	701
Cultivator	E. W. Joy. (Reissue)	10,297	Mar. 20	1565	428	23	1119
Cultivator	S. D. B. Kise	274,616	Mar. 27	1783	496	23	1164
Cultivator	W. A. Knowlton	287,443	Oct. 30	2102	571	25	408
Cultivator	J. N. Lamm	290,778	Dec. 25	1794	495	25	1224
Cultivator	J. Lane	275,502	Apr. 10	835	226	23	1377
Cultivator	J. L. Laughlin	274,126	Mar. 20	1137	313	23	1044
Cultivator	G. W. Lilly and J. E. Norman	290,440	Dec. 18	1343	372	25	1139
Cultivator	A. W. Livingston	282,540	Aug. 7	77	22	24	513
Cultivator	L. Luppen	274,798	Mar. 27	1994	554	23	1201
Cultivator	D. N. Luse and J. W. Bell	284,565	Sept. 4	490	138	24	987
Cultivator	S. O. Mason	282,341	July 31	2544	697	24	464
Cultivator	M. W. McCann	283,910	Aug. 28	1739	491	24	838
Cultivator	J. T. McIntire	278,577	May 29	2559	698	23	2096
Cultivator	R. K. Nichols	289,127	Nov. 27	1673	464	25	823
Cultivator	A. N. Norris	272,060	Feb. 13	618	167	23	559
Cultivator	J. H. Nutting	274,962	Apr. 3	104	29	23	1242
Cultivator	W. Ord	287,956	Nov. 6	208	60	25	544
Cultivator	F. K. Orvis	275,846	Apr. 17	1283	352, 353	23	1460
Cultivator	F. K. Orvis	275,847	Apr. 17	1284	353	23	1460
Cultivator	W. H. Parlin	276,272	Apr. 24	1793	499	23	1558
Cultivator	W. B. Patterson	281,126	July 10	971	272	24	178
Cultivator	W. H. Pennock	275,260	Apr. 3	480	134	23	1308
Cultivator	J. Platten, Sr.	288,111	Nov. 6	398	112	25	577
Cultivator	C. W. Post	279,980	June 26	1686	473	23	2432
Cultivator	H. C. Pratt	289,708	Dec. 4	429	120	25	961
Cultivator	C. A., J. H., and A. P. Rainwater	285,073	Sept. 18	1129	316	24	1112
Cultivator	C. D. Reed	290,111	Dec. 11	912	258	25	1035
Cultivator	H. C. Rikard	284,062	Aug. 28	1948	544	24	875
Cultivator	H. H. Sater	276,718	May 1	242	61	23	1666
Cultivator	H. H. Sater	278,366	May 29	2311	632	23	2052
Cultivator	A. Schott	283,926	Aug. 28	1760	497	24	842
Cultivator	G. F. Skank	272,490	Feb. 20	1145	321	23	655
Cultivator	H. L. Smith	277,949	May 22	1750	477	23	1946
Cultivator	S. P. Snyder, S. Stough, and T. D. Ulrick.	290,366	Dec. 18	1234	347	25	1121
Cultivator	G. W. Stacy	285,318	Sept. 18	1415	400	24	1163

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cultivator	H. V. Thompson	288,514	Nov. 13	919	251	25	675
Cultivator	J. G. Trump	287,196	Oct. 23	1796	492	25	345
Cultivator	D. Unthank	278,672	May 29	2678	733, 734	23	2116
Cultivator	M. L. Utter	276,984	May 1	585	154	23	1726
Cultivator	D. C. Van Brunt	280,263	June 26	2023	569	23	2492
Cultivator	M. M. Warmoth	290,376	Dec. 18	1247	350	25	1123
Cultivator	J. B. Weir	273,787	Mar. 13	713	192, 193	23	964
Cultivator	W. S. Weir	274,070	Mar. 13	1057	291	23	1023
Cultivator	H. Wilcox	285,193	Sept. 18	1276	359	24	1137
Cultivator	N. H. Williams	288,289	Nov. 13	618	169	25	624
Cultivator	P. W. Williams	282,824	Aug. 7	417	118	24	574
Cultivator	R. M. Williams	288,288	Nov. 13	618	169	25	624
Cultivator	D. Wise	286,983	Oct. 16	1517	417	25	287
Cultivator and bean-harvester	W. Carver	273,224	Feb. 27	2076	583	23	825
Cultivator and chopper. Cotton	E. McCarty	275,062	Apr. 3	936	65	23	1966
Cultivator and cotton and corn planter. Combined	D. J. McCall	278,810	June 5	178	52	23	2153
Cultivator and fertilizer-distributer	C. M. Gray and W. L. Casaday	270,584	Jan. 16	932	269, 270	23	200
Cultivator and harrow. Combined	J. P. Howe	281,221	July 10	1095	303	24	201
Cultivator and harrow teeth. Securing	E. Fulmer	287,531	Oct. 30	2211	600	25	430
Cultivator and planter atttachment	J. Palmer	278,452	May 29	2414	658, 659	23	2070
Cultivator and planter. Combined	J. W. Pool	289,707	Dec. 4	428	120	25	961
Cultivator and plow. Combined wheel	E. L. Murray	272,460	Feb. 20	1100	310, 311	23	647
Cultivator and seed-planter	J. F. Hill	281,878	July 24	1946	531, 532	24	358
Cultivator attachment	O. McVey and G. W. Albin	274,132	Mar. 20	1144	315	23	1045
Cultivator-beam	D. C. Van Brunt	284,093	Aug. 28	1986	553	24	882
Cultivator-blade	L. D. Gavitt	282,880	Aug. 7	486	136	24	586
Cultivator blade or shovel. Corn-	J. Lane	277,907	May 22	1703	465	23	1939
Cultivator. Cotton-	H. B. Fry	281,259	July 17	1155	319	24	217
Cultivator. Hand-	L. A. Budlong	272,854	Feb. 27	1622	454	23	747
Cultivator. Hand-	J. H. Thompson	290,142	Dec. 11	950	269	25	1062
Cultivator-hoe. Spring	A. B. Clark	275,146	Apr. 3	349	96	23	1286
Cultivator. Onion-	J. P. Turner	280,416	July 3	94	25	24	19
Cultivator. Orchard-	G. Richardson and G. Enderson	279,277	June 12	823	228	23	2274
Cultivator-shovel	E. Children	271,791	Feb. 6	250	70	23	484
Cultivator-shovel	J. W. Jones	273,550	Mar. 6	399	107	23	902
Cultivator-shovel	J. E. Mitchell	272,301	Feb. 13	882	247	23	606
Cultivator-shovel	H. N. Timms	275,546	Apr. 10	891	241	23	1386
Cultivator-spring	J. B. Neff	287,703	Oct. 30	2454	661	25	476
Cultivator. Sulky-	J. C. Bayley	281,957	July 24	2040	558	24	374
Cultivator. Straddle-row	P. Rooney	270,251	Jan. 9	503	148	23	109
Cultivator. Straddle-row	F. Sheaffer	279,823	June 19	1488	417	23	2392
Cultivator-teeth. Sheet-metal standard for	S. L. Allen	280,114	June 26	1849	524	23	2492
Cultivator-tooth. Reversible	G. D. Rowell	287,172	Oct. 23	1762	483	25	340
Cultivator. Tongueless	B. C. Bradley	274,555	Mar. 27	1708	474, 475	23	1150
Cultivator. Tongueless	G. W. Van Sickle	271,164	Jan. 23	1649	474	23	331
Cultivator. Wheel-	J. S. Andrews	280,436	July 3	125	33	24	23
Cultivator. Wheel-	T. W. and D. J. Brennan	277,874	May 22	1668	455	23	1932
Cultivator. Wheel-	W. P. Brown	288,003	Nov. 6	274	77, 78	25	554
Cultivator. Wheel-	W. E. Butler	276,766	May 1	310	80	23	1679
Cultivator. Wheel-	C. D. Carter	274,720	Mar. 27	1901	530	23	1185
Cultivator. Wheel-	L. C. Chapin	285,797	Oct. 2	18	6	25	5
Cultivator. Wheel-	A. W. Steelman and W. H. Maynard	272,915	Feb. 27	1701	476	23	759
Cup:							
See Dental impression-cup.	Hydrometer-cup.						
Feed-cup.	Oil-cup.						
Grease-cup.	Salt and pepper cup.						
Cups, bottles, &c. Removable lip for	J. Rhoads	280,515	July 3	217	57	24	39
Cupol-furnace	J. Lynch	275,232	Apr. 3	449	125	23	1303
Cupel-mold	H. W. Walker	284,693	Sept. 11	660	185	24	1022
Cupolling-furnace	B. Roesing	289,143	Nov. 27	1689	469	25	826
Cupola-furnace	W. J. Clapp and T. Griffiths	271,683	Feb. 6	118	32, 33	23	460
Cupric sulphate. Making	H. Rössler	286,735	Oct. 16	1205	325	25	234
Curd-cutter	D. G. Young	271,969	Feb. 6	465	127	23	522
Curd-mill	G. Castle and G. D. Pohl	277,228	May 8	896	239	23	1786
Curd-stirring machine	H. H. Ferry	288,785	Nov. 20	1253	344	25	741
Current-motor	A. D. Garretson	283,769	Aug. 28	1577	445	24	811
Currents and streams. Device for utilizing the force of	F. M. St. Clair	271,145	Jan. 23	1622	466	23	327
Curry-comb	G. C. Bunce and L. W. Sammis	278,869	June 5	269	78	23	2169
Curry-comb	A. Hermundson	276,817	May 1	366	97	23	1696
Curry-comb	W. E. Lawrence	272,558	Feb. 20	1223	342	23	669
Curry-comb	J. D. and W. C. Lawrence	276,696	May 1	207	59	23	1660
Curry-comb	G. C. W. Magruder	282,338	July 31	2540	695	24	463
Curtain and shade. Window	W. G. Scott	289,573	Dec. 4	254	71	25	932
Curtain-bracket	D. D. Nugent	284,143	Aug. 28	2057	570	24	893
Curtain-cord tightener	F. J. Werneth	275,303	Apr. 3	536	146	23	1317
Curtain-fixture	T. Breen	275,351	Apr. 10	635	170	23	1343
Curtain-fixture	C. Buckley	282,840	Aug. 7	435	121	24	577
Curtain-fixture	W. N. Buckley	275,580	Apr. 10	929	252	23	1393
Curtain-fixture	A. Cole	282,846	Aug. 7	445	125	24	579
Curtain-fixture	J. Harris	274,191	Mar. 20	1213	334	23	1058
Curtain-fixture	F. M. Kelly	280,833	July 10	617	173	24	115
Curtain-fixture	F. B. Mallory	277,760	May 15	1530	415	23	1902
Curtain-fixture	F. B. Mallory	284,454	Sept. 4	358	99	24	964
Curtain-fixture	M. Medart	286,624	Oct. 16	1065	286	25	209
Curtain-fixture	F. G. Newell	282,757	Aug. 7	342	97	24	560

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Curtain-fixture	M. Pepper	272,998	Feb. 27	1683	470	23	756
Curtain-fixture	W. P. Putnam	279,801	June 19	1464	410	23	2388
Curtain-fixture	W. P. Putnam	279,802	June 19	1465	410	23	2388
Curtain-fixture	W. P. and S. L. Putnam	279,803	June 19	1465	411	23	2388
Curtain-fixture	A. Sweetland	274,049	Mar. 13	1021	280	23	1017
Curtain-fixture bracket	W. Gibbs	271,446	Jan. 30	2014	581	23	404
Curtain fixture. Roller-	A. B. Shaw	283,737	Aug. 21	1527	431	24	790
Curtain-fixtures. Spring-roller for	B. Handforth	284,417	Sept. 4	319	88	24	957
Curtain-fixtures. Spring-roller for	H. T. Warner	290,821	Dec. 25	1850	512	25	1234
Curtain-guide	E. F. De Witt	275,163	Apr. 3	363	100	23	1289
Curtain-hanger	J. H. Lingley	282,912	Aug. 7	519	145	24	592
Curtain-loop	R. C. Pope	282,365	July 31	2574	706	24	469
Curtain loop or holder	S. A. Chapman	287,234	Oct. 23	1846	505	25	354
Curtain-pin	J. Day	275,160	Apr. 3	363	100	23	1289
Curtain-pole	A. D. Field	277,253	May 8	927	248, 249	23	1791
Curtain-pole angle-joint	R. S. Gould	275,480	Apr. 10	811	219	23	1373
Curtain-pole angle-piece	C. De Quillfeldt	274,572	Mar. 27	1730	481	23	1154
Curtain-pole bracket-extension	R. S. Gould	275,481	Apr. 10	811	220	23	1373
Curtain pole. Cornice	E. D. Mersereau	278,721	June 5	61	19	23	2135
Curtain-pole ring	W. Lang	286,712	Oct. 16	1179	317	25	299
Curtain-poles. Ornamental shaft for the ends of	J. Bassemir and L. R. Walker	286,521	Oct. 9	995	249	25	178
Curtain-ring	D. D. Nugent	279,585	June 19	1220	338	23	2345
Curtain-roller	C. C. Clawson	278,884	June 5	286	82	23	2172
Curtain-roller	G. Furness and J. Robertshaw	286,194	Oct. 9	509	140	25	104
Curtain-roller	H. Lobdell	286,027	Oct. 2	303	85	25	57
Curtain-roller	W. B. Noyes	278,037	May 22	1861	508	23	1966
Curtain-roller	W. B. Noyes	278,038	May 22	1862	508	23	1966
Curtain-roller attachment	H. Lobdell	286,026	Oct. 2	302	84	25	57
Curtain-roller. Spring	C. Buckley and L. L. Sawyer	275,987	Apr. 17	1446	398	23	1491
Curtain-roller. Spring	C. De Quillfeldt	271,691	Feb. 6	126	35	23	462
Curtain-roller. Spring	L. L. Sawyer	287,729	Oct. 30	2485	670	25	482
Curtain-roller. Spring	L. L. Sawyer	288,123	Nov. 6	410	116	25	579
Curtains. Fastening for quarter-	J. H. Snodgrass	272,094	Feb. 13	635	172	23	561
Curtains. Window-pole for	W. J. Flickinger	285,886	Oct. 2	137	39	25	27
Cushion: *See* Billiard-cushion. Billiard-table cushion. Carriage-window cushion. Pincushion. Railway-rail cushion.							
Cushion-spring for chair backs, seats, &c	L. A. Warner	279,998	June 26	1709	479	23	2437
Cuspidor	B. S. Bowling	284,601	Sept. 11	541	153	24	1002
Cuspidor	P. S. Dusenbury	277,692	May 15	1448	391	23	1866
Cuspidor	C. Gordon	282,306	July 31	2494	685	24	455
Cuspidor	C. Gordon	282,307	July 31	2495	685	24	455
Cuspidor	H. S. Parker	284,473	Sept. 4	378	105	24	968
Cuspidor	A. Stewart	276,496	Apr. 24	2084	579	23	1607
Cuspidor-holder	T. H. Schmitz	277,353	May 8	1044	280	23	1812
Cuspidor-mat	F. Haberman	272,239	Feb. 13	813	226	23	593
Cuspidor. Sheet-metal	G. T. Sutterley	275,285	Apr. 3	512	141	23	1313
Cuspidor-stand	W. Eberhard	290,759	Dec. 25	1773	490	25	1221
Cuspidors, &c. Manufacture of and mold for making	W. A. Krouse	286,830	Oct. 16	1390	380	25	254
Cut-off	C. P. Allen	271,761	Feb. 6	212	59	23	477
Cut-off for conductors	W. F. B. Fisher	289,821	Dec. 11	559	157	25	991
Cut-off for engines. Automatic	J. B. Pitchford	283,656	Aug. 21	1422	398	24	771
Cut-off for service-pipes	J. Graham	283,774	Aug. 28	1583	447	24	812
Cut-off governor for steam-engines	C. B. Richards	290,113	Dec. 11	913	259	25	1056
Cut-off mechanism	J. Thomas	272,797	Feb. 20	1529	430	23	723
Cut-off mechanism for steam-engines	N. F. Burnham	274,559	Mar. 27	1713	476	23	1151
Cut-off valve	W. A. Clarke	270,744	Jan. 16	1140	327	23	238
Cut-off valve	M. N. Cummiskey	270,396	Jan. 9	689	204	23	144
Cut-off valve	C. H. Edson	276,528	Apr. 24	2127	592	23	1614
Cut-off valve	J. Graham	283,773	Aug. 28	1581	446, 447	24	812
Cut-off valve	J. G. Haacker	282,630	Aug. 7	189	55	24	533
Cut-off valve	T. W. Heermans	286,002	Oct. 2	273	76, 77	25	51
Cut-off valve	B. F. Olmsted	284,472	Sept. 4	377	105	24	968
Cut-off valve	C. B. Turner	286,747	Oct. 16	1290	329	25	236
Cut-off valve	B. Webster	272,909	Feb. 20	1543	433, 434	23	796
Cut-off valve	N. W. Williames	281,812	July 24	1866	510	24	344
Cut-off valve for steam-engines	J. M. Sweeney	274,530	Mar. 27	1682	467	23	1146
Cut-off valve gear	J. P. Benoit	288,297	Nov. 13	629	172	25	625
Cut-off valve gear	P. Grüdelbach	273,512	Mar. 6	342	92	23	892
Cut-off valve gear	J. K. Hallock and E. F. Spaulding	281,312	July 17	1214	336, 337	24	228
Cut-off valve gear	D. Halpin	271,063	Jan. 23	1528	441	23	311
Cut-off valve gear	J. M. Higbe	275,337	Apr. 3	595	159	23	1397
Cut-off valve gear	C. E. Kimball	279,253	June 12	794	220	23	2269
Cut-off valve gear	H. H. Meyer	285,500	Sept. 25	1639	461	24	1206
Cut-off valve gear	E. O'Neill	271,352	Jan. 30	1895	548	23	392
Cut-off valve gear	J. B. Simmons	290,808	Dec. 25	1836	507	25	1231
Cut-off valve gear	L. Skinner	282,388	July 31	2601	714	24	474
Cut-off valve gear	L. Skipner. (Reissue)	10,405	Nov. 6	504	139, 140	25	595
Cut-off valve gear	E. F. Spaulding	281,314	July 17	1220	337, 338	24	228
Cut-off valve gear	E. F. Spaulding and J. K. Hallock	281,313	July 17	1218	337	24	228
Cut-off valve gear	E. F. Spaulding and J. K. Hallock	281,315	July 17	1223	338, 339	24	229
Cut-off valve gear	A. F. Ward	280,103	June 26	1840	518	23	2460
Cut-off valve. Steam-engine	A. A. Ackerly	288,196	Nov. 13	507	141	25	605
Cutlery-blade	J. D. Frary	275,630	Apr. 10	1001	271	23	1405
Cutlery. Manufacture of pocket-	J. D. Frary	290,023	Dec. 11	811	228	25	1036
Cutlery. Manufacture of	H. Hallström	274,318	Mar. 20	1379	379	23	1066

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cutter: *See* Axle-cutter. Band-cutter. Bar and pipe cutter. Bark-cutter. Barrel-head cutter. Bolt-cutter. Bread-cutter. Bread or cheese cutter. Bretzel-cutter. Button-hole cutter. Chain-cutter. Cigar-cutter. Cigar-lighter cutter. Cigar-tip cutter. Corn-cutter. Cornstalk-cutter. Cotton-stalk cutter. Curd-cutter. Feed-cutter. Fodder-cutter. Fruit and vegetable cutter. Fuse cutter. Gear-cutter. Groove-cutter. Harvester-cutter. Hog-nose cutter. Ice-cutter. Label-cutter. Lash-cutter. Lathe-cutter. Leather-cutter. Meat-cutter. Nail-machine cutter. Paper-roll cutter. Peg-cutter. Pipe-cutter. Planing-machine cutter. Rotary cutter. Sewing-machine thread-cutter. Sod-cutter. Stalk-cutter. Stave-cutter. Straw-cutter. Tobacco-cutter. Tube-cutter. Twine-cutter. Vegetable-cutter. Weed-cutter. Welt-cutter. Wood-cutter. Wood-working-machine cutter.							
Cutter-bar	H. J. Burnworth	284,813	Sept. 11	807	225	24	1047
Cutter-bars. Elastic cushion for	E. J. Blood	280,901	July 10	693	195	24	129
Cutter-bars. Elastic cushion for	E. J. Blood	280,902	July 10	694	195	24	129
Cutter for paper, cloth, &c	J. A. H. Meyer	276,265	Apr. 24	1787	497	23	1557
Cutter-head	R. H. Ainsworth	276,323	Apr. 24	1879	521	23	1571
Cutter-head	R. V. Boice	275,459	Apr. 10	780	209	23	1368
Cutter-head	A. V. Cross	275,890	Apr. 17	1335	368	23	1471
Cutter-head	L. Emery and F. B. Stebbins	286,409	Oct. 9	793	214	25	154
Cutter-head	D. P. Hall	284,630	Sept. 11	575	162	24	1008
Cutter-head	B. F. Lauterman	286,450	Oct. 9	840	227	25	163
Cutter-head	S. G. Pope	290,923	Dec. 25	1970	544	25	1255
Cutter-head	H. D. Wilcox	290,158	Dec. 11	966	273	25	1065
Cutter-head. Abrading	J. L. Perry	273,304	Mar. 6	79	24	23	847
Cutter-head attachment	J. Green	271,199	Jan. 23	1696	489	23	338
Cutter-head for boring-machines	W. Bramwell	276,760	May 1	303	77	23	1678
Cutter-head for carving scrolls	N. K. Jones	275,391	Apr. 10	696	185	23	1354
Cutter-head knives. Gage for	C. Buss	273,022	Feb. 27	1894	511	23	781
Cutter-head tool-holder	P. Hittel	270,313	Jan. 9	573	168, 169	23	122
Cutter-heads of planing and slotting machines. Device for reciprocating the	J. L. Bogert	278,084	May 22	1915	525	23	1975
Cutter. Machinery for supporting and revolving a disk-shaped	A. McDonald	276,260	Apr. 24	1782	495	23	1556
Cutting and polishing tools. Apparatus for supplying abrading and polishing material to	J. S. O'Connor	283,273	Aug. 14	963	268	24	679
Cutting and shaping objects. Method of and apparatus for	F. Bain	288,395	Nov. 13	774	209	25	650
Cutting blanks. Machine for	J. R. Williams	287,073	Oct. 23	1639	450	25	316
Cutting corsets, rags, &c. Machine for	L. and J. C. Coburn	272,856	Feb. 27	1624	455	23	747
Cutting device	W. S. Seymour	284,496	Sept. 4	410	117	24	973
Cutting-die	W. Biggs	272,115	Feb. 13	668	182	23	567
Cutting-die	I. A. Canfield	286,901	Oct. 16	1413	388	25	289
Cylinder engine. Multiple-	P. Brotherhood	284,372	Sept. 4	258	71	24	948
Cutting forms from a layer or layers of fibrous or other material. Apparatus for	G. J. W. Galster	288,049	Nov. 6	326	92	25	563
Cutting-machine	G. Gilbert	271,835	Feb. 6	304	83	23	494
Cutting, punching, and tire-upsetting machine. Combined	H. Morse	274,216	Mar. 20	1253	345	23	1065
Cyclometer	J. Butcher	270,737	Jan. 16	1132	325	23	236
Cyclone-refuge	J. N. Mileham	288,354	Nov. 13	708	194	25	639
Cylinder engine. Revolving-	G. W. Hunter	280,041	June 26	1770	497	23	2447
Cylinder-lock	J. H. Barnes	285,207	Sept. 18	1290	363	24	1140
Cylinders. Machine for reboring	W. E. Wild	275,102	Apr. 3	291	80	23	1276
Dam and lock	J. Du Bois	282,062	July 31	2173	596, 597	24	402
Dam for irrigating-ditches	W. H. Bigelow	289,959	Dec. 11	726	205	25	1021
Damper	F. C. Davis	287,637	Oct. 30	2367	638	25	459
Damper	J. Spear	280,411	July 3	89	24	24	18
Damper and cleaner. Combined stove-pipe	T. W. Rickel and G. A. Carpenter	287,964	Nov. 6	222	63	25	546
Damper. Automatic	B. Higgins	286,817	Oct. 16	1304	355	25	252
Damper. Automatic stove-	J. C. Higdon	283,106	Aug. 14	758	213	24	642
Damper for furnace or stove pipes	N. A. Boynton	279,530	June 19	1157	320, 321	23	2334
Damper for stove pipes and flues. Ventilating	A. Cummings	274,567	Mar. 27	1724	479	23	1153
Damper-regulator	I. Cumberbatch	283,578	Aug. 21	1341	374	24	754
Damper-regulator	R. Thompson	272,989	Feb. 27	1782	499	23	773
Damper-regulator for steam-boilers	V. H. Hallock	276,810	May 1	359	95	23	1689
Damper regulator, indicator, and lock	E. O. Pohl	281,726	July 24	1752	475	24	323
Damper-regulator. Steam	G. M. Githens	285,478	Sept. 25	1613	453	24	1203
Damper-regulator. Steam	D. C. Kellam	284,023	Aug. 28	1904	533	24	668
Damper safety attachment	J. M. Dolen	286,400	Oct. 9	784	211	25	153
Damper. Stove-	M. E. Weller	274,238	Mar. 20	1281	353	23	1070
Dampers. Apparatus for opening	J. H. Haldeman	279,867	June 19	1545	432	23	2402
Dart	H. L. Marbach	275,236	Apr. 3	453	126	23	1303
Dash-board	E. Hoxie	280,378	July 3	46	13	24	10

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Dash-board	L. E. McKinnon	279,412	June 12	1010	280	23	2303
Dash-board fastening	M. J. Rogers	284,575	Sept. 4	508	142	24	989
Dash-frames. Die for making	G. M. Peters	281,553	July 17	1513	416	24	278
Dash-pot bumper	F. G. Coggin	272,652	Feb. 20	1350	379	23	691
Davit and chair for life-boats	J. H. F. Meyer	276,446	Apr. 24	2024	561	23	1597
Davit for boats	J. F. Mumm	272,745	Feb. 20	1467	412	23	712
Dead-eye	S. B. Luce	290,993	Dec. 25	2075	571	25	1271
Decorating ceilings and walls	F. E. Cheesman	289,811	Dec. 11	549	153	25	989
Decorating rooms	W. Nielson	275,692	Apr. 10	1075	293	23	1418
Decorative fabric	E. Baron	287,495	Oct. 30	2171	.....	25	421
Decorative structure	E. Vedder	276,100	Apr. 17	1563	437	23	1513
Decoy	J. Danz, Jr	282,851	Aug. 7	451	127	24	580
Decoy	L. Keller	274,124	Mar. 20	1136	312	23	1044
Decoy purposes. Device for setting up dead game for	W. R. Benjamin	283,195	Aug. 14	863	241	24	660
Degranulating-machine	K. Seifert	290,485	Dec. 18	1404	388	25	1150
Delivery and transportation. System of	G. H. Herrington	280,620	July 3	338	94	24	60
Dental bracket	F. Slater	276,637	May 1	115	30	23	1647
Dental chair	O. M. Graves	284,294	Sept. 4	170	48	24	932
Dental chair. Folding	W. G. Browne	271,596	Feb. 6	13	4	23	443
Dental-disk holder	L. D. Shepard	282,384	July 31	2596	713	24	473
Dental drill	E. T. Starr	276,921	May 1	493	129	23	1712
Dental-drill hand-piece	R. M. Ross	281,139	July 10	988	276	24	181
Dental-drill hand-piece	R. M. Ross. (Reissue)	10,423	Dec. 11	1011	284	25	1073
Dental drills on whetstones. Device for holding	W. W. Vance	289,472	Dec. 4	122	35	25	908
Dental engine	D. H. Gilmer	278,933	June 5	393	107, 108	23	2190
Dental engine	E. T. Starr	276,299	Apr. 24	1828	509, 510	23	1563
Dental engine	E. T. Starr	278,464	May 29	2429	662, 663	23	2073
Dental-engine fan	R. M. Ross and E. J. Klinck	290,359	Dec. 18	1227	345	25	1119
Dental-engine hand-piece	J. W. Gilbert	287,761	Oct. 30	2533	682	25	491
Dental-engine hand-piece	C. P. Grout	277,196	May 8	778	204, 205	23	1765
Dental-engine hand-piece	W. A. Johnston, A. W. Browne, E. T. Starr, and J. W. Gilbert.	287,683	Oct. 30	2421	653	25	471
Dental-engine hand-piece	J. H. Lincoln	274,008	Mar. 13	980	269	23	1010
Dental-engine hand-piece	S. R. Screven	288,499	Nov. 13	902	246	25	672
Dental-engine suspension-bracket	W. A. Johnston	286,704	Oct. 16	1166	314	25	227
Dental engines. Abrasive disk-holding spindle for	W. P. Cooke	290,401	Dec. 18	1279	359	25	1128
Dental flask	F. W. Seabury	279,605	June 19	1239	344	23	2349
Dental flask	F. W. Seabury	283,928	Aug. 28	1762	497	24	843
Dental impression-cup	B. J. Field	274,299	Mar. 20	1357	372	23	1089
Dental impression-cup	S. E. Fish	273,833	Mar. 13	768	208	23	974
Dental jaw-brace	L. W. Nevius	278,259	May 22	2148	590	23	2015
Dental lip and tongue holder	J. H. Doyle	278,520	May 29	2496	681	23	2085
Dental mallet	W. G. Stevenson	283,828	Aug. 28	1644	463	24	822
Dental model	J. B. Graves	270,566	Jan. 9	909	262	23	187
Dental or surgical engine	W. G. A. Bonwill	282,044	July 31	2147	589	24	392
Dental plate	F. B. Shearer	269,966	Jan. 2	177	49	23	36
Dental plate	J. W. Shults	277,796	May 15	1567	427	23	1909
Dental plate	V. Van Vleck	287,199	Oct. 23	1799	493	25	345
Dental plate. Temporary	G. F. Reese	286,845	Oct. 16	1344	368	25	258
Dental plates. Apparatus for forming	W. W. Evans	279,365	June 12	952	264, 265	23	2294
Dental plugger	C. F. Bliven	279,908	June 26	1599	448	23	2418
Dental plugger	B. F. Eshelman	290,014	Dec. 11	801	226	25	1035
Dental plugger	W. W. Evans	279,928	June 26	1625	456	23	2422
Dental plugger	G Rehfuss	271,986	Feb. 6	494	133	23	526
Dental purposes. Illuminating apparatus for	R. Telschow	274,671	Mar. 27	1844	515	23	1176
Dental vulcanizer	T. J. Carrick	279,079	June 5	571	157	23	2221
Dentifrice	A. P. Merrill and J. Eastwood	284,751	Sept. 11	732	.....	24	1035
Dentist's flask	J. W. Elliot	285,243	Sept. 18	1333	375	24	1147
Dentist's flask	J. R. Housel	283,487	Aug. 21	1237	347	24	735
Denture. Artificial	C. H. Land	282,094	July 31	2215	609	24	409
Denture. Artificial	A. S. Richmond	277,933	May 22	1733	473	23	1943
Denture. Artificial	C. M. Richmond	277,934	May 22	1735	473	23	1943
Denture. Artificial	C. M. Richmond	277,936	May 22	1736	473	23	1944
Denture. Artificial	C. M. Richmond	277,938	May 22	1737	474	23	1944
Denture. Artificial	C. M. Richmond	277 939	May 22	1738	474	23	1944
Denture. Artificial	C. M. Richmond	277,941	May 22	1739	475	23	1944
Denture. Artificial	C. M. Richmond	277,942	May 22	1740	475	23	1944
Denture. Artificial	C. M. Richmond	282,119	July 31	2263	620	24	416
Deodorizing and disinfecting water-closets, &c	E. Z. Collings	276,357	Apr. 24	1914	531	23	1572
Deodorizing organic substances. Process of and apparatus for	W. S. Hatheway	278,955	June 5	419	114	23	2195
Deodorizing perspiration-powder	A. D. Slocomb and J. W. Day	279,195	June 12	732	.....	23	2258
Deodorizing solutions of colophony in heavy hydrocarbons.	H. Brackebusch	275,565	Apr. 10	914	.....	23	1390
Depilating	A. Laure	285,044	Sept. 18	1098	.....	24	1106
Derrick	P. Kelly	271,474	Jan. 30	2055	592	23	410
Derrick	J. T. Scully	275,421	Apr. 10	729	194	23	1360
Derrick	G. W. Tarr	275,540	Apr. 10	883	239	23	1385
Derrick	I. H. Yeaw	285,721	Sept. 25	1910	542	24	1258
Derrick. Coal, iron-ore, and merchandise	W. E. Ludlow	282,543	Aug. 7	80	23	24	514
Derrick. Hoisting	W. Manson	290,780	Dec. 25	1795	496	25	1225
Derrick. Lever	O. H. Mitchell	281,639	July 17	1623	444	24	296
Derrick. Lever	O. H. Mitchell	290,786	Dec. 25	1800	497, 498	25	1226
Derrick. Portable stacking	L. T. Mitchell	275,689	Apr. 10	1072	292	23	1417
Desiccating-machine	C. Kimplen	281,898	July 24	1960	536	24	360
Designs. Representing and multiplying monumental and other	F. M. Nichols	287,310	Oct. 23	1941	530	25	371
Desk	J. A. Guest	270,895	Jan. 23	4321	381	23	278

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Desk	M. J. Hafgar	281,498	July 17	1451	397, 398	24	268
Desk	C. Ignatius	287,543	Oct. 30	2228	605	25	434
Desk	C. Larson	278,152	May 22	2001	550	23	1990
Desk	L. P. Ross	287,475	Oct. 30	2145	583	25	417
Desk and blackboard. Combined	W. E. Crandall	275,598	Apr. 10	949	258	23	1397
Desk and seat. Folding	W. J. Jackson	288,441	Nov. 13	827	224	25	659
Desk and seat. School	J. F. Coulter	273,260	Mar. 6	20	6, 7	23	838
Desk attachment for drawers. Adjustable	T. L. Jowett	282,087	July 31	2209	607	24	408
Desk. Cabinet	L. P. Ross	272,776	Feb. 20	1502	423	23	718
Desk. Cabinet folding	L. P. Ross	272,777	Feb. 20	1504	423	23	719
Desk. Cash	J. Fanning	278,921	June 5	382	104, 105	23	2188
Desk. Folding	M. J. Hafgar	271,061	Jan. 23	1523	440	23	310
Desk. Folding	P. L. Shepler	272,164	Feb. 13	719	198	23	576
Desk. Office	C. H. Tyler	287,068	Oct. 23	1633	449	25	315
Desk. School	H. J. Colburn	277,545	May 15	1275	342	23	1857
Desk. School	W. H. Dodge	286,594	Oct. 16	1023	277	25	202
Desk. School	G. Munger	277,326	May 8	1014	272	23	1807
Desk-top	E. A. Paul	272,759	Feb. 20	1479	416	23	714
Desk. Vertically-adjustable	H. W. Groebl	281,494	July 17	1447	356	24	267
Desks. Book-support for writing	J. B. Whitaker	276,514	Apr. 24	2108	586	23	1611
Detachable hook	H. E. Foster	287,115	Oct. 23	1693	464	25	327
Detector: *See* Carriage-driving detector. Coin-detector. Time-detector.							
Developing or tracing machine	F. Aborn	282,831	Aug. 7	425	121	24	575
Dextrine, glucose, maltrose, and grape-sugar. Manufacture of	T. P. Kingsford	280,045	June 26	1775	.....	23	2448
Dial-spacing machine	F. Leman	283,350	Aug. 14	1060	298, 299	24	698
Dial. Sun	N. Larsen	281,527	July 17	1484	407, 408	24	274
Dial. Sun	D. L. Smith	277,799	May 15	1572	429	23	1910
Diamond drill	J. P. Griscom	272,681	Feb. 20	1381	388	23	696
Diamond-drill and well sinking or boring safety-machine.	G. M. Ross and D. Grant	284,067	Aug. 28	1955	545	24	876
Diamonds in steel saw-teeth, bits, &c. Inserting	E. Foerster	279,369	June 12	958	266	23	2295
Diaphragm-meter	J. Thomson	274,848	Mar. 27	2047	571	23	1211
Dickey	M. O. West	290,953	Dec. 25	2013	555	25	1261
Die: *See* Bolt-threading die. Roller-die. Cutting-die. Screw-cutting die. Link-welding die. Stamping-die. Nail-cutting die.							
Die and stamping press	F. and O. Kampfe	272,056	Feb. 13	588	159	23	554
Die or swage	M. L. Ritchie	279,020	June 5	497	135	23	2208
Die-plate	J. E. Sanders	277,163	May 8	828	219	23	1774
Die-plate and tap-wrench. Combined	H. M. Vincent and W. N. Smith	274,420	Mar. 20	1511	415	23	1110
Die-press	G. E. Meeker	285,294	Sept. 18	1389	392	24	1158
Die-press	G. E. Meeker	287,767	Oct. 30	2545	685	25	493
Die-press	G. E. Merriman	282,747	Aug. 7	331	94	24	558
Die-press connecting-rod	J. M. Seymour	287,333	Oct. 23	1966	537	25	376
Dies. Making	W. F. Weber	270,866	Jan. 16	1278	369	23	264
Dies, &c. Manufacture of metal	G. F. Champney	281,970	July 24	2058	564	24	377
Differential register	J. Thomson	274,674	Mar. 27	1850	516	23	1176
Differential register	J. Thomson	285,322	Sept. 18	1420	401	24	1164
Digger: *See* Post-hole digger. Tree-digger. Potato-digger.							
Digging-machine	T. C. Darby	276,783	May 1	329	86, 87	23	1683
Dining-table and lunch-case. Portable railway	J. M. Case	275,991	Apr. 17	1451	399, 400	23	1492
Diphtheria remedy	S. Mathis	276,257	Apr. 24	1778	.....	23	1555
Diphtheria remedy	J. G. L. Myers	271,506	Jan. 30	2093	.....	23	417
Dipper-handle	J. H. H. Wilson	280,274	June 26	2039	573	23	2495
Direct-acting compound engine	F. W. Jenkins	287,289	Oct. 23	1911	523	25	366
Direct-acting compound engine	E. D. Leavitt, Jr	283,261	Aug. 14	948	265	24	676
Direct-acting engine	B. Brazelle	284,173	Sept. 4	17	5	24	907
Direct-acting engine	I. B. Davis	282,503	Aug. 7	32	10	24	506
Dirt-loading machine	J. J. Melville	273,121	Feb. 27	1945	546	23	802
Dish, &c	T. B. Russell	284,239	Sept. 4	107	29	24	922
Dish. Butter	H. Berry	284,531	Sept. 4	455	129	24	981
Dish. Butter	H. Berry	284,532	Sept. 4	455	129	24	981
Dish. Butter	A. J. Chase	275,587	Apr. 10	936	254	23	1394
Dish cover. Baking	A. A. Curtis	287,635	Oct. 30	2366	638	25	459
Dish. Covered	T. Spencer	275,281	Apr. 3	507	140	23	1312
Dish-draining rack	M. Raughtigan	287,471	Oct. 30	2137	580	25	415
Dish made from ceramic material or glass. Oval or circular	O. A. Gager	275,033	Apr. 3	203	54	23	1260
Dish or basket	B. D. Marks	271,881	Feb. 6	354	98	23	503
Dish or plate lifter	O. T. Lee	271,340	Jan. 30	1871	543	23	377
Dish pan and drainer	G. E. Willsie	284,264	Sept. 4	133	37	24	927
Dish-washer	W. M. Burckett	290,528	Dec. 18	1466	405	25	1160
Dish-washer	M. C. Mason	272,894	Feb. 27	1679	469	23	756
Dish-washing machine	C. A. Harris	289,650	Dec. 4	347	97	25	948
Dish-washing machine	E. Wiseman	281,598	July 17	1573	430	24	287
Disinfectant	C. T. Kingzett and M. Zingler	281,521	July 17	1479	.....	24	273
Disinfectant	G. E. Rice	289,858	Dec. 11	611	.....	25	1000
Disinfectants. Production of	C. T. Kingzett and M. Zingler	274,789	Mar. 27	1986	.....	23	1200
Disinfecting apparatus	W. J. Hadden and J. S. Wood	279,644	June 19	1284	357	23	2357
Disinfecting apparatus	F. H. Hubbard	282,195	July 31	2363	650	24	431
Disinfecting apparatus	J. S. Wood	287,206	Oct. 23	1811	497	25	347
Disinfecting apparatus for water-closets	S. W. Parker and H. Blackman	272,758	Feb. 20	1478	416	23	714

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Disinfecting apparatus for water-closets	C. S. Rice, Jr	276,470	Apr. 24	2055	571	23	1602
Disinfecting candle	T. Shaw	281,798	July 24	1848	505	24	340
Disinfecting water-closets	H. E. Wells	276,106	Apr. 17	1592	440	23	1515
Disintegrating fibrous plants. Machine for	D. Prieto	278,668	May 29	2673	731, 732	23	2115
Disintegrating grain, &c. Apparatus for	F. Taggart	279,842	June 19	1510	422, 423	23	2396
Disintegrating-machine	S. Dodson	274,574	Mar. 27	1732	481	23	1154
Disintegrating-mill	G. Elbreg	273,829	Mar. 13	765	207	23	973
Disintegration of bagasse and other vegetable matter. Apparatus for the	T. Harang	278,545	May 29	2523	669	23	2090
Disk. Cutting and abrading	E. B. Call	270,384	Jan. 9	670	197	23	140
Disk-engine. Compound	F. Darkin	270,759	Jan. 16	1159	332	23	241
Dispatch-tube. Electro-magnetic	C. A. Cheever	282,165	July 31	2318	636, 637	24	425
Display-body	J. M. Simpson	280,489	Dec. 18	1409	389	25	1150
Display-rack	C. H. Michael	280,453	Dec. 18	1363	376	25	1142
Displaying articles in the air. Apparatus for	C. B. Linton	286,718	Oct. 16	1184	319	25	230
Distillation. Apparatus for	R. Dean	280,866	Dec. 25	1900	524	25	1243
Distillation of ammoniacal liquors. Apparatus for the	O. A. Stevens and E. L. Du Barry	282,398	July 31	2610	717	24	476
Distillation of coal	W. J. Cooper	282,440	July 31	2673	.....	24	487
Distillation of hydrocarbon oils. Process of and apparatus for the fractional	H. Frasch	281,045	July 10	869	241, 242	24	161
Distillation. Process of and apparatus for	J. G. Pontefract	289,706	Dec. 4	427	119	25	960
Distillation, sublimation, or roasting of solid materials. Apparatus for the continuous	F. Lürmann	279,099	June 5	601	163, 164	23	2226
Distilled spirits from grain. Method of and apparatus for manufacturing	T. A. and W. T. Jebb	276,046	Apr. 17	1516	417	23	1502
Distilled spirits from grain. Process of and apparatus for manufacturing	W. T. Jebb	274,783	Mar. 27	1978	551	23	1198
Distilling and carbonizing wood, &c. Furnace for	J. A. Mathieu	282,342	July 31	2544	697	24	464
Distilling and charring wood and kiln therefor	H. M. Pierce	284,058	Aug. 28	1939	542	24	873
Distilling apparatus	D. G. Coppin	279,918	June 26	1611	453	23	2420
Distilling apparatus	W. F. C. M. McCarty	283,003	Aug. 14	632	179	24	619
Distilling apparatus	H. C. Selden	276,483	Apr. 24	2069	574	23	1605
Distilling apparatus. Wood	C. J. T. Burcey	275,461	Apr. 10	782	209	23	1368
Distilling petroleum	R. C. Clark and W. F. Beecher	275,589	Apr. 10	937	255	23	1395
Distilling water, &c. Apparatus for	W. H. Herrick	284,011	Aug. 28	1891	530	24	865
Ditch-cleaner. Adjustable	J. R. Rothman	272,087	Feb. 13	627	170	23	560
Ditcher. Tile	H. H. Eatherton	279,141	June 12	674	185	23	2248
Ditches. Machine for forming and cleaning	C. W. Case, J. O. Pattee, and A. M. Long.	272,412	Feb. 20	1045	293, 294	23	637
Ditching and excavating machine. Railway	H. T. Stock	273,631	Mar. 6	501	134	23	920
Ditching apparatus. Steam	J. C. Moore	284,971	Sept. 11	992	279, 280	24	1081
Ditching-machine	O. M. Allaben	280,112	June 26	1847	521	23	2462
Ditching-machine	M. J. Austin	283,948	Aug. 28	1793	507	24	849
Ditching-machine	H. Carter and W. Rennie	285,225	Sept. 18	1310	369, 370	24	1143
Ditching-machine	O. Ewing and G. A. Henderson	283,765	Aug. 28	1572	444, 445	24	810
Ditching-machine	I. B. Hammond	289,410	Dec. 4	44	13	25	894
Ditching-machine	J. L. House	289,839	Dec. 11	585	163	25	996
Ditching-machine	E. H. Laucaster	280,631	July 3	351	98	24	62
Ditching-machine	S. Leffler	269,946	Jan. 2	149	43	23	31
Ditching-machine	G. Meader	281,099	July 10	931	260	24	172
Ditching-machine	N. E. Ross	270,967	Jan. 23	1440	415	23	296
Ditching machine. Rotary tile	R. H. Nogar	284,320	Sept. 4	201	56	24	939
Ditching machine. Tile	T. B. Fagan	275,372	Apr. 10	664	177	23	1347
Ditching machine. Tile	W. S. Hanson	286,696	Oct. 16	1158	312	25	225
Ditching-machines, &c. Cutter-chain for	H. H. Eatherton	288,930	Nov. 20	1430	393	25	773
Ditching-shovel	P. F. Chambard	270,016	Jan. 2	224	64	23	46
Dividers	J. H. Crowell	285,017	Sept. 18	1066	298	24	1101
Dividers	C. Johnsen	280,831	July 10	615	172, 173	24	115
Dividers and calipers. Joint for	C. Morrill	284,045	Aug. 28	1926	539	24	871
Dividers attachment	H. Hanstein	288,235	Nov. 13	549	151	25	612
Dividers or compasses	W. H. Mitchell	280,390	July 3	63	17	24	14
Dividers. Parallel	J. B. Tetley	279,460	June 12	1063	294	23	2312
Document and file case	A. W. Volta	273,408	Mar. 6	220	59	23	871
Dog-irons. Chill-mold for	N. Zins	289,366	Nov. 27	1961	546	25	878
Doll	S. Eldridge	278,420	May 29	2374	648	23	2063
Doll	S. C. Robinson	283,513	Aug. 21	1264	354	24	740
Doll	M. L. Wellington	285,448	Sept. 25	1580	444	24	1197
Doll	L. B. J. Wishard	280,986	July 10	800	223	24	147
Doll-carriage	W. S. Reed	288,662	Nov. 20	1102	302	25	714
Domino	C. S. Lockwood	273,559	Mar. 6	414	110	23	905
Domino	R. H. Williams	278,646	May 29	2650	725	23	2111
Dominos, checks, &c. Manufacture of	C. C. Shepherd	274,668	Mar. 27	1845	514	23	1175
Door	J. D. Benson and R. B. Fogle	280,785	July 10	566	158	24	107
Door	W. S. Castor	270,635	Jan. 16	1000	288, 289	23	212
Door	J. M. J. Wernert	278,066	May 22	1890	518	23	1971
Door attachment. Inside	J. Smith and J. P. Rhodes	275,726	Apr. 10	1117	305	23	1425
Door. Automatically-operating	J. L. Hawkey	274,765	Mar. 27	1956	544	23	1195
Door-balance	W. F. Sexton, Sr., and W. F. Sexton, Jr.	285,365	Sept. 18	1475	415	24	1172
Door-bolt	C. Clark	279,334	June 12	904	252, 253	23	2226
Door-bolt	W. S. Hill	284,961	Sept. 11	982	276	24	1079
Door-bolt	A. G. Thompson	271,001	Jan. 23	1456	419	23	299
Door brace or stay	P. J. Lockwood	275,832	Apr. 17	1264	347	23	1457
Door-brake	W. S. Barlow	284,358	Sept. 4	244	68	24	946

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Door-catch	F. J. Lee	289,666	Dec. 4	364	103	25	951
Door-check	J. W. Bulger	290,526	Dec. 18	1465	405	25	1159
Door-check	R. G. S. Collamore	272,531	Feb. 20	1196	333	23	664
Door-check	J. A. Coultaus	288,028	Nov. 6	302	85	25	559
Door-check	F. W. Fieder	270,044	Jan. 2	256	74	23	52
Door-check	S. B. Hazen and G. L. Van Gorder	281,504	July 17	1457	399	24	269
Door-check	W. H. Herrick	289,259	Nov. 27	1825	504	25	852
Door-check	G. G. and R. Matthews	281,542	July 17	1502	412	24	276
Door-check	T. B. McCurdy	280,055	June 26	1784	500	23	2450
Door-check	P. K. O'Lally	289,697	Dec. 4	417	117	25	959
Door-check	S. Porter	283,658	Aug. 21	1425	399	24	771
Door-check	R. Wright	277,820	May 15	1592	435	23	1913
Door-check. Pneumatic	E. I. Blount	289,380	Dec. 4	10	4	25	889
Door-check. Pneumatic	T. N. Page	285,156	Sept. 18	1235	347	24	1129
Door-fastener. Portable	E. F. Pfund	290,352	Dec. 18	1218	342	25	1117
Door. Grain	R. J. Walker	271,957	Feb. 6	450	123	23	520
Door-hanger	W. F. Berry	279,526	June 19	1154	319	23	2333
Door-hanger	W. F. Berry	280,342	July 3	5	2	24	3
Door-hanger	F. Birmingham	289,961	Dec. 11	728	205	25	1021
Door-hanger	W. B. Botsford	288,918	Nov. 20	1413	389	25	770
Door-hanger	C. Brinton	286,774	Oct. 16	1251	338, 339	25	242
Door-hanger	C. Brinton	289,885	Dec. 11	644	179, 180	25	1006
Door-hanger	C. Brinton	289,886	Dec. 11	646	180	25	1006
Door-hanger	C. W. Bullard	277,542	May 15	1272	341	23	1857
Door-hanger	B. J. Cloes	285,575	Sept. 25	1726	488	24	1224
Door-hanger	W. B. Cogger and H. A. Hamlin	283,208	Aug. 14	879	245	24	664
Door-hanger	L. Eberhart and I. D. Stevens	278,692	June 5	22	6	23	2128
Door-hanger	W. Grace	281,054	July 10	881	245	24	163
Door-hanger	G. W. Hey	271,980	Feb. 6	486	131	23	525
Door-hanger	G. W. Hey	271,981	Feb. 6	488	132	23	525
Door-hanger	G. W. Hey	286,539	Oct. 9	946	255	25	182
Door-hanger	E. Mack	281,537	July 17	1495	411	24	276
Door-hanger	H. T. Moody	281,546	July 17	1505	413	24	277
Door-hanger	D. Nickel	290,093	Dec. 11	891	253	25	1051
Door-hanger	E. Prescott	283,279	Aug. 14	969	271	24	680
Door-hanger	E. L. Shaffner	279,606	June 19	1240	344	23	2349
Door-hanger	L. A. Smith	286,085	Oct. 2	376	104	25	69
Door-hanger	S. M. Stevens	287,065	Oct. 23	1629	448	25	314
Door-hanger	J. D. Wilber	279,898	June 19	1580	442	23	2408
Door hanger and rail-bracket. Barn	W. Cronk	272,031	Feb. 13	556	150	23	549
Door-hanger. Balance	R. S. Henderson and A. Sanders	279,442	June 12	1045	290	23	2309
Door hanger. Parlor	S. Shreffler, Jr.	281,308	July 17	1210	335	24	227
Door-lock	W. H. Flinn	272,037	Feb. 13	563	152	23	550
Door-lock	J. J. Helsing	282,517	Aug. 7	49	14, 15	24	508
Door-lock	W. D. Hughes	286,614	Oct. 16	1051	283	25	207
Door-lock	J. Mathisen	278,719	June 5	58	17, 18	23	2135
Door-lock	A. Montant	276,858	May 1	416	111	23	1699
Door-lock	V. M. Moore	289,435	Dec. 4	75	21, 22	25	900
Door-lock	O. E. Pillard	271,918	Feb. 6	406	110	23	512
Door-lock	W. Rowe	277,616	May 15	1360	366	23	1871
Door-lock	J. Savoie	281,142	July 10	991	277	24	182
Door-lock	J. Schilling and A. A. Massar	289,031	Nov. 27	1558	430	25	803
Door-lock. Extension	J. Kuster, Jr	277,295	May 8	979	263	23	1800
Door-lock. Sliding	W. T. Mingus	275,066	Apr. 3	245	67	23	1268
Door-lock. Sliding	C. S. Rees and P. Mills	274,658	Mar. 27	1831	508	23	1173
Door lock. Sliding	A. B. Walters	276,941	May 1	535	138	23	1717
Door-opener	M. L. Powell	276,626	May 1	104	28	23	1645
Door-opener. Electrical	A. T. Smith	273,622	Mar. 6	489	131, 132	23	918
Door-opener. Pneumatic	A. T. Smith	281,148	July 10	997	278, 279	24	183
Door-opener. Presser-foot	G. L. Geiger	283,770	Aug. 28	1577	446	24	811
Door or shutter. Sliding	E. H. Walton	290,373	Dec. 18	1241	350	25	1122
Door pull. Sliding	W. H. Andrews	276,325	Apr. 24	1880	522	23	1571
Door-pull. Sliding	T. Lyons	287,039	Oct. 23	1595	439	25	308
Door rail and rail-support. Barn	L. Terry	282,237	July 31	2412	663	24	441
Door-securer	A. Boucher	278,862	June 5	261	75	23	2168
Door-securer	A. Boucher	278,863	June 5	262	76	23	2168
Door-securer	F. Burrows	288,920	Nov. 20	1415	390	25	771
Door-securer	W. Coe	290,400	Dec. 18	1277	359	25	1128
Door-securer	C. Leaming	288,179	Nov. 6	478	132	25	590
Door-securer	T. E. Tateum	280,261	June 26	2021	568	23	2492
Door sheave. Sliding	S. H. Houghton	288,338	Nov. 13	687	189	25	635
Door sill and step	L. Haas	290,878	Dec. 25	1916	529	25	1245
Door. Sliding	A. P. Beard	281,433	July 17	1364	376	24	253
Door. Sliding	J. R. Drillinger	290,757	Dec. 25	1771	489	25	1221
Door-spring	W. S. Barlow	270,368	Jan. 9	653	192	23	137
Door-spring	G. W. Downes	278,783	June 5	147	43	23	2147
Door-spring	I. Moore	271,649	Feb. 6	77	21	23	454
Door-spring	I. W. Moore	271,650	Feb. 6	78	22	23	454
Door-spring	W. H. Sherer	274,397	Mar. 20	1483	408	23	1105
Doors. Device for adjusting roses to	G. Watkins	280,539	July 3	245	65	24	44
Doors. Guard for closing the hinge-crevices of	F. V. Fletcher	274,303	Mar. 20	1363	373	23	1093
Doors. Stay-roller for sliding	W. M. Brinkerhoff	287,223	Oct. 23	1831	501	25	351
Doors. Stay-roller for sliding	W. M. Brinkerhoff	290,521	Dec. 18	1457	402	25	1158
Doors. Stay-roller for sliding	W. Cronk	288,980	Nov. 27	1494	414	25	792
Doors. Stay-roller for sliding	W. Cronk	288,981	Nov. 27	1495	414	25	792
Double-circuit instrument	A. W. Hall	284,840	Sept. 11	838	234	24	1053
Double-tree	E. How	285,266	Sept. 18	1358	383	24	1153
Double-tree	O. Vanorman	279,846	June 19	1519	425	23	2397
Doubling machine. Thread	A. L. Washburn	271,383	Jan. 30	1933	559	21	388
Doubling machine. Thread	A. L. Washburn. (Reissue)	10,364	Aug. 7	556	157	24	600

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Doubling machines. Tension-equalizer for thread-	J. M. Grant	283,599	Aug. 21	1362	380 381	24	759
Doubling silk, &c. Machine for	G. Singleton	277,074	May 8	715	186	23	1754
Doubling silk, &c. Stop-motion for machines for	T. S. McElhose	289,117	Nov. 27	1659	460	25	890
Dough-breaker. Self-acting	J. Mackinnon	273,114	Feb. 27	1939	544	23	801
Dough-cutting machine	L. J. Anger	274,892	Apr. 3	3	1	23	1227
Dough-mixer	F. Raymond	283,511	Aug. 21	1262	353	24	739
Dough or butter worker	W. H. Bryan	290,392	Dec. 18	1970	357	25	1127
Dough-raiser	A. P. Gross	280,370	July 3	38	10	24	9
Dowel-pins. Machine for making	D. S. Force	271,053	Jan. 23	1514	436	23	309
Draft-bar for sleighs	D. N. Barker	285,377	Sept. 25	1494	420	24	1182
Draft-equalizer	W. H. Baker	275,321	Apr. 3	560	153	23	1321
Draft-equalizer	W. H. Baker	275,322	Apr. 3	561	153	23	1321
Draft-equalizer	E. H. Cooper	280,135	June 26	1872	527	23	2466
Draft-equalizer	J. W. Helme	281,505	July 17	1457	399	24	269
Draft-equalizer	G. M. Kerby	272,706	Feb. 20	1414	396	23	702
Draft-equalizer	W. Lewis	276,611	May 1	82	22	23	1642
Draft-equalizer	B. C. Shaw	282,575	Aug. 7	122	36	24	521
Draft-equalizer	E. E. Stevenson	280,876	July 10	667	188	24	125
Draft-equalizer	A. Wickey	273,210	Feb. 27	2059	579	23	822
Draft-regulator	H. D. Bannister	288,914	Nov. 20	1410	388	25	770
Draft-regulator	G. M. Githens	270,302	Jan. 9	561	165	23	119
Draft-regulator	H. W. Norwood	278,814	June 5	183	53	23	2153
Draft-regulator for locomotive and other furnaces	H. W. Norwood	278,813	June 5	182	53	23	2153
Draft-retarder and flue-scraper. Combined	I. D. Smead	289,865	Dec. 11	617	172	25	1001
Drafting garments. Apparatus for	T. W. Byrnes	282,842	Aug. 7	438	124	24	577
Drafting patterns. Instrument for	M. B. Chandler	270,933	Jan. 23	1368	395	23	285
Drag. Field-	D. Hill	289,656	Dec. 4	354	100	25	949
Drag. Marine	A. J. Clarke	289,224	Nov. 27	1788	495	25	844
Draining and ventilating stores, &c. Apparatus for	E. and W. C. Mentz	272,570	Feb. 20	1250	349	23	674
Draining-case for barrels	G. M. Crapon and R. H. Pickett	272,415	Feb. 20	1050	295	23	638
Dramatic effects. Apparatus for producing illusory	J. W. Knell	277,137	May 8	798	209	23	1769
Dramatic effects. Apparatus for producing illusory	J. W. Knell	286,709	Oct. 16	1174	315	25	228
Draw-bar	T. B. Purves and T. C. Craven	271,269	Jan. 30	1778	516 517	23	361
Draw-plate	J. Holland	285,896	Oct. 2	150	42	25	29
Drawer	O. A. Jensen	290,237	Dec. 18	1071	300	25	1092
Drawer	J. Stephens	280,412	July 3	89	24	24	18
Drawer-clamp	A. Cutler	283,468	Aug. 21	1210	340	24	730
Drawer. Furniture-	T. W. Moore	287,386	Oct. 23	2029	551	25	387
Drawer. Furniture-	E. C. Roberts	288,861	Nov. 20	1344	369	25	757
Drawer-lock	R. W. Whitney	276,516	Apr. 24	2110	586	23	1612
Drawer-pull	E. J. Blackham	275,326	Apr. 3	566	154	23	1322
Drawer-pull	F. Frank	289,245	Nov. 27	1811	500	25	849
Drawer-pull	J. G. Hallas	289,251	Nov. 27	1817	502	25	850
Drawer-pull	B. A. Lewis	289,669	Dec. 4	367	104	25	952
Drawer-pull	J. C. Miller and A. H. Jones	288,837	Nov. 20	1316	361	25	752
Drawer-pull	C. Rebstock	275,078	Apr. 3	263	72	23	1271
Drawer pull and lock. Combined	J. Wise	277,398	May 8	1091	293	23	1820
Drawers	C. Z. Celler	288,012	Nov. 6	285	81	25	556
Drawers	G. A. Howe	277,283	May 8	958	257	23	1798
Drawers	J. McKean	289,679	Dec. 4	381	109	25	954
Drawers	H. Parker	280,232	June 26	1986	558	23	2486
Drawers	G. Wittman	281,816	July 24	1872	511	24	345
Drawers	G. Wittman	285,195	Sept. 18	1277	359	24	1137
Drawers, overalls, and pantaloons	M. Fishman	283,992	Aug. 28	1842	519 520	24	858
Drawing and design. Movable outline	M. J. Sweeney	285,442	Sept. 25	1574	443	24	1195
Drawing apparatus	W. S. Worden	280,432	July 3	119	32	24	22
Drawing-frame and drawing and doubling slivers	J. E. Prest	277,606	May 15	1349	363	23	1869
Drawing-frame stopping mechanism	H. B. Estes	289,902	Dec. 11	665	186	25	1009
Drawing-knife	J. S. Cantelo	290,396	Dec. 18	1275	358	25	1128
Drawing-knife. Adjustable	J. S. Cantelo	286,385	Oct. 9	761	206	25	149
Drawing-knife and attachment therefor	A. W. Crossman	286,787	Oct. 16	1967	343	25	245
Drawing. Map-	J. M. B. Sill	280,965	July 10	778	216	24	143
Drawing-paper to drawing-boards. Device for fastening	W. Schönheyder	284,334	Sept. 4	216	60	24	941
Drawing. Spacing-instrument for	G. P. Conant	290,210	Dec. 18	1036	292	25	1086
Drawing-table	A. Hörmann	274,605	Mar. 27	1772	491 492	23	1162
Drawings. Shading	H. R. Maas	282,653	Aug. 7	214	63	24	537
Dredge and mining machine	D. Blain	276,215	Apr. 24	1726	478	23	1546
Dredge for shell-fish	A. F. Friend	279,373	June 12	962	267	23	2295
Dredge. Roller-	A. J. Burr	273,021	Feb. 27	1823	511	23	780
Dredger	H. R. Koon	278,975	June 5	440	120	23	2198
Dredgers and excavators. Disintegrating-hopper for	J. A. Ball	285,340	Sept. 18	1437	406	24	1167
Dredgers. Chain-wheel for sand-	M. Herron	274,601	Mar. 27	1769	490	23	1161
Dredges. Head-block for A-frames of	R. R. Osgood	285,658	Sept. 25	1826	521	24	1243
Dredging and excavating apparatus	A. D. Fox	286,691	Oct. 16	1152	310	25	224
Dredging and excavating machine	R. E. Rose	279,599	June 19	1233	342	23	2347
Dredging and other machines. Discharge-pipe for	J. M. Buckley	282,700	Aug. 7	284	80	24	548
Dredging apparatus	S. Meinesz	281,905	July 24	1982	543	24	364
Dredging-bucket	J. O. Ayo	277,868	May 22	1660	453	23	1931
Dredging-bucket	A. J. Gosnell	283,598	Aug. 21	1361	380	24	758
Dredging-bucket	J. Menge	274,358	Mar. 20	1432	392	23	1096
Dredging-machine	T. Z. Cole	277,236	May 8	904	241 242 243	23	1787
Dredging-machine	A. Cook	287,631	Oct. 30	2360	637	25	457
Dredging-machine	L. A. Johnson and N. E. Johnsen	281,883	July 24	1952	533	24	359
Dredging-machine	J. Menge	288,091	Nov. 6	372	103 104	25	571
Dredging-machine	J. Menge	288,092	Nov. 6	375	104 105	25	572

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dredging-machine	J. Menge	288,093	Nov. 6	376	105, 106	25	572
Dredging-machine	J. Menge	288,094	Nov. 6	379	107	25	573
Dredging-machine	J. Van Patten	284,095	Aug. 28	1989	554, 555	24	882
Dredging-machine. Elevator	J. Kennedy	279,570	June 19	1201	332	23	2342
Dredging-machines, &c. Friction-compressor for	A. H. Fisher	285,883	Oct. 2	133	38	25	26
Dredging-machines. Swinging frame for	J. Menge	269,949	Jan. 2	152	44	23	32
Dredging or excavating machine	H. E. Hawk	287,763	Oct. 30	2538	683, 684	25	491
Dress and skirt protector	G. Baker	282,254	July 31	2429	668	24	444
Dress. Lady's	A. C. Herts	280,174	June 26	1911	537	23	2473
Dress-lining	E. W. Wheeler	272,813	Feb. 20	1549	435	23	727
Dress-shield	I. B. Kleinert	287,298	Oct. 23	1925	526, 527	25	368
Dressing-case	E. J. Eisenmann and H. Kock	279,233	June 12	770	213	23	2265
Dressing-case and wash-stand. Combined	J. Penney	272,467	Feb. 20	1110	313	23	649
Drier: *See* Clothes-drier. Feed-drier. Fruit-drier. Glue-drier. Grain-drier. Grain and offal drier. Hop-drier. Lumber-drier. Offal-drier. Sand-drier. Tobacco-drier.							
Drier	T. B. Farrington	289,635	Dec. 4	324	90, 91	25	945
Drier for white lead, &c	G. L. Irwin	288,574	Nov. 13	987	272	25	688
Drill: *See* Corn-drill. Dental drill. Diamond-drill. Grain-drill. Hand-drill. Manure-drill. Portable drill. Ratchet-drill. Rock-drill. Rotary drill. Seed-drill. Track-drill. Twist-drill. Wheat-drill.							
Drill	J. S. Bancroft and W. H. Thorne	270,366	Jan. 9	648	190, 191	23	136
Drill	J. H. Pendleton	283,509	Aug. 21	1260	353	24	739
Drill feed mechanism	J. and B. F. Barnes	270,537	Jan. 9	872	254	23	180
Drill-grinding machine	T. R. Pickering	282,364	July 31	2573	705	24	469
Drill guide and rest	L. F. Longmore	284,449	Sept. 4	352	97	24	963
Drill-hoe. Flexible	J. F. Keller	269,943	Jan. 2	147	43	23	30
Drill-hoe point	A. R. Ludlow	273,375	Mar. 6	161	49	23	865
Drill or reamer, tap, and socket. Combined	J. W. Douglas	279,360	June 12	936	261	23	2291
Drill-rest	H. C. Laubach	284,967	Sept. 11	988	278	24	1081
Drill-stock	L. Eicke	283,473	Aug. 21	1216	342	24	731
Drills. Device for grinding and clearing	D. Meehan	282,209	July 31	2377	654	24	434
Drills. Grain and fertilizer spreading attachment for	E. W. Free	277,260	May 8	933	250	23	1793
Drills. Machine for sharpening	J. S. Bancroft and W. H. Thorne	270,365	Jan. 9	642	190	23	136
Drilling and boring machines. Automatic friction feeding device for	J. J. Kirby	290,242	Dec. 18	1077	301	25	1093
Drilling apparatus	W. L. Saunders	270,488	Jan. 9	798	233	23	166
Drilling device. Metal-	P. C. Wright	287,986	Nov. 6	254	72	25	552
Drilling-machine	W. F. and J. Barnes	285,726	Sept. 25	1915	543, 544	24	1259
Drilling-machine	T. J. and F. T. Currier	287,366	Oct. 23	2006	546	25	383
Drilling-machine	J. Miller	282,750	Aug. 7	333	95	24	558
Drilling-machine	J. Richards	287,326	Oct. 23	1958	535	25	374
Drilling-machine	J. Rieppel	280,956	July 10	767	213	24	141
Drilling-machine	J. C. Smith	279,834	June 19	1503	420	23	2394
Drilling-machine	G. C. Taft	288,510	Nov. 13	915	250	25	674
Drilling-machine	F. Voos	273,409	Mar. 6	221	59	23	871
Drilling-machine	E. J. Worcester	274,243	Mar. 20	1288	355	23	1071
Drilling-machine	E. J. Worcester	287,209	Oct. 23	1812	497	25	348
Drilling-machine. Hand	J. Cherney	275,885	Apr. 17	1331	366	23	1470
Drilling-machine. Hand	D. E. Kempster	289,110	Nov. 27	1650	458	25	819
Drilling-machine. Hand	G. W. Smith	279,032	June 5	513	140	23	2211
Drilling-machine post	O. Plummer	274,026	Mar. 13	998	273	23	1013
Drilling-machine. Radial	A. Box	283,857	Aug. 28	1676	473	24	827
Drinking-flask	J. P. Eustis	285,597	Sept. 25	1756	498	24	1230
Drinking-vessel	J. Vernon	282,244	July 31	2418	665	24	442
Drinking-vessel	A. R. and C. W. Weiss	278,205	May 22	2073	571	23	2002
Drinking-vessels, &c. Regulating the containing capacity of	J. Tams	289,467	Dec. 4	111	33	25	906
Drive-wheel	C. Darrow	289,992	Dec. 11	774	217	25	1029
Driving-bit	E. H. Gilman	281,991	July 24	2080	571	24	381
Driving-gear for locomotives, steamboats, &c. Chain	G. F. Sievern	280,091	June 26	1825	513	23	2457
Driving mechanisms. Gallows-frame for portable	W. T. Kellogg	279,650	June 19	1294	359	23	2358
Drop-light pipe-coupling	J. J. Royle	286,229	Oct. 9	545	150	25	110
Dropper: *See* Check-row dropper.							
Dropper and check-row attachment. Combined	H. Z. Coles	271,793	Feb. 6	252	70	23	484
Druggist's graduate	L. C. Leake	272,713	Feb. 20	1422	398	23	704
Drum	E. Boulanger	274,900	Apr. 3	11	3	23	1228
Drum for hot-air furnaces. Radiating	J. Miller and D. Mager	287,149	Oct. 23	1730	474	25	334
Drum. Heating-	D. S. Richardson	282,567	Aug. 7	113	34	24	520
Drum. Heating-	G. W. Weamer and F. T. Zimmerman.	289,045	Nov. 27	1577	435	25	806
Drum. Heating-	H. G. Williams	281,219	July 10	1092	301	24	200
Drum. Stove-pipe	W. B. Getty and D. Bricker	274,117	Mar. 20	1126	310	23	1042
Drying apparatus	A. Edwards	288,782	Nov. 20	1248	343	25	740
Drying cylinder. Steam-	W. Maybury	284,877	Sept. 11	881	247	24	1061
Drying house or kiln	W. A. Allen	270,359	Jan. 9	633	186, 187	23	134
Drying-kiln	G. F. Speer	271,144	Jan. 23	1620	466	23	327

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Drying-kiln for bricks, &c	C. Chambers, Jr	274,907	Apr. 3	19	5	23	1230
Drying kiln for bricks, &c	H. Cockell	274,910	Apr. 3	21	6	23	1230
Drying material of extensive superficial area	O. Lumpp	280,490	July 3	194	51	24	35
Drying or moisture-extracting apparatus	G. Gerdom	273,721	Mar. 13	614	165	23	947
Drying-rack. Adjustable	J. R. Moore and H. Bovee	269,874	Jan. 2	60	19	23	14
Drying substances in sheets. Frame for	J. B. Edson	277,693	May 15	1449	391	23	1887
Drying sugar and other substances. Machine for	G. M. Newhall	286,056	Oct. 2	340	94, 95	25	63
Dumb-bell	W. T. McGinnis	272,144	Feb. 13	698	191	23	573
Dummy. Sample-	M. H. Marcus	290,188	Dec. 11	1001	282	25	1071
Dumping boat or scow	J. W. Wilson	279,683	June 19	1334	371	23	2364
Dumping boat or scow	J. W. Wilson	279,684	June 19	1336	371	23	2365
Dumping-platform	W. F. Nine and A. R. Case	288,103	Nov. 6	388	110	25	575
Dumping-platform	J. T. Savage and J. Love. (Reissue)	10,389	Oct. 2	470	129	25	88
Duplex direct-acting engine	W. H. Guild	278,133	May 22	1962	544	23	1986
Duplex engine	C. C. Worthington	283,315	Aug. 14	1008	282	24	698
Duplex writing-table	J. B. Swem	277,959	May 22	1762	490	23	1948
Dust-collector	P. Chaney, Jr	288,014	Nov. 6	287	81	25	556
Dust-collector	N. W. Holt	273,533	Mar. 6	374	99, 100	23	898
Dust-pan	C. B. Banning	275,012	Apr. 3	170	46	23	1255
Dust-pan	F. W. Carpenter	277,225	May 8	891	237	23	1785
Dust-pan	F. W. Carpenter	285,877	Oct. 2	124	36	25	24
Dust-pan	N. T. Folsom	276,531	Apr. 24	2131	593	23	1615
Dust-pan	H. C. Godfrey	277,266	May 8	939	252	23	1794
Dust-pan	R. E. Timoney and C. R. Brown	288,280	Nov. 13	610	167	25	692
Dust-pan	W. M. Valentine	279,676	June 19	1328	369	23	2363
Dust-pan	J. F. Wynkoop	280,900	July 10	804	224	24	148
Duster. Feather	J. W. Little	271,877	Feb. 6	350	97	23	502
Duster. Feather	H. Taylor and J. F. C. Elfers	280,531	July 3	235	63	24	42
Dye-stuff. Manufacture of	H. Caro and A. Kern	290,856	Dec. 25	1890	.....	25	1241
Dye-stuff. Manufacture of purple	A. Kern	290,892	Dec. 25	1933	.....	25	1249
Dye-stuff or coloring-matter. Manufacture of	A. Kern	290,891	Dec. 25	1932	.....	25	1249
Dye-stuff or coloring-matter. Manufacture of	A. Kern	290,893	Dec. 25	1935	.....	25	1249
Dye-stuff or coloring-matter. Manufacture of blue	E. Hepp	270,311	Jan. 9	572	.....	23	122
Dye-stuffs for application to fibrous materials. Preparing	H. W. Vaughan	272,499	Feb. 20	1155	.....	23	657
Dye-stuffs. Manufacture of material suitable for	A. Bernthsen	282,835	Aug. 7	430	.....	24	576
Dye-stuffs to fibrous materials. Applying	H. W. Vaughan	272,498	Feb. 20	1154	.....	23	657
Dye-vat. Machine for handling yarn in the	R. L. Rushlow	279,884	June 19	1563	437	23	2405
Dye-vats. Shell for use in	R. Bell	276,340	Apr. 24	1897	526	23	1575
Dyes. Apparatus for extracting	G. L. Allen	274,891	Apr. 3	1	1	23	1227
Dyeing and finishing plush fabrics	J. C. Maguire	283,500	Aug. 21	1253	.....	24	738
Dyeing aniline-black	A. N. Dubois	283,220	Aug. 14	893	.....	24	666
Dyeing compound	A. M. Meincke	276,061	Apr. 17	1535	.....	23	1505
Dyeing mother-of-pearl, &c. Compound for and process of	C. P. Fest	276,378	Apr. 24	1940	.....	23	1582
Dyeing skeins of yarn. Machine for	W. McAllister	280,644	July 3	368	102	24	65
Dyeing textile fabrics. Apparatus for	L. Gourdiat	290,678	Dec. 25	1658	457	25	1199
Dyeing with hydrocarbons. Apparatus for	E. Rau	290,110	Dec. 11	910	258	25	1055
Dyeing wool, cloth, &c., to imitate marble	E. A. Batonnier	270,371	Jan. 9	656	.....	23	137
Dynamite-shell	D. M. Mefford	279,964	June 26	1670	469	23	2430
Dynamometer	A. H. Emery	278,911	June 5	339	94	23	2181
Dynamometer	A. H. Emery	278,912	June 5	343	95	23	2182
Dynamometer	J. McCloskey	287,841	Nov. 6	61	18	25	518
Dynamometer. Electro-magnetic	C. F. Brackett	287,800	Nov. 6	13	4	25	509
Ear-drum. Artificial	J. W. Culbertson	270,284	Jan. 9	543	160	23	116
Ear-jewel fastening	G. W. Washburn	285,532	Sept. 25	1677	472	24	1215
Ear-protector	C. Beard and C. E. Baldwin	280,005	June 26	1718	481	23	2439
Ear-ring	A. F. Arnold	276,993	May 8	605	158	23	1736
Ear-ring	J. A. Riley and C. S. Freer	271,122	Jan. 23	1597	459	23	322
Ear-ring, bracelet, &c	J. A. Riley and C. S. Freer	271,121	Jan. 23	1596	459	23	322
Ear-ring fastener	W. R. Dutemple	280,726	July 3	466	133	24	83
Ear-ring fastener	G. Krements	271,084	Jan. 23	1558	448	23	316
Ear-ring wire	W. E. Liddle	281,088	July 10	920	257	24	170
Earthenware vessel	J. Pech	280,661	July 3	385	106	24	68
Earthenware vessels. Cover for	J. C. Thompson	282,802	Aug. 7	392	111	24	569
Easel	T. L. Fisher	278,116	May 22	1954	535	23	1982
Easel	F. S. Frost	275,631	Apr. 10	1002	271	23	1405
Easel	B. Smiley	285,438	Sept. 25	1569	442	24	1195
Easel	E. Werner	281,591	July 17	1562	428	24	286
Easel	D. K. Woodward	280,279	June 26	2043	574	23	2496
Easel, artist's box, sketching-board, and stool combined	E. Werner	283,175	Aug. 14	834	233	24	655
Easel attachment	D. K. Woodward	280,278	June 26	2042	574	23	2496
Easel, blackboard, and writing-desk. Combined	R. Smillie	284,251	Sept. 4	121	33	24	925
Easel. Sketcher's	M. A. Merrill	274,629	Mar. 27	1796	499	23	1166
Eaves-gutter	H. I. Aldrich	280,111	June 26	1846	521	23	2461
Eaves-trough	J. P. Gould	280,737	July 3	483	136	24	86
Eaves-trough	J. L. Schaffert	274,393	Mar. 20	1479	406	23	1104
Eaves-trough bracket. Adjustable	F. P. Campbell	288,307	Nov. 13	640	175	25	698
Eaves-trough hanger	J. P. Abbott	276,654	May 1	142	36	23	1630
Eaves-trough hanger	J. P. Abbott	285,371	Sept. 25	1485	419	24	1181
Eaves-trough hanger	J. Bear and H. Whitenbarger	290,731	Dec. 25	1737	480	25	1214
Eaves-trough hanger	H. J. Erwin	270,038	Jan. 2	250	72	23	51
Eaves-trough hanger	D. Gottschalk	288,793	Nov. 20	1268	347	25	743
Eaves-trough hanger	C. D. Hyre	283,892	Aug. 28	1720	485	24	835
Eaves-trough hanger	T. McMaster	285,292	Sept. 18	1386	392	24	1158
Eaves-trough support	W. R. Wilcox	272,925	Feb. 27	1711	479	23	761
Eccentric	R. R. Angell	272,511	Feb. 20	1170	327	23	659
Eccentric	C. W. Barnaby	287,406	Oct. 30	2061	560	25	400
Eccentric	C. Johnson	282,327	July 31	2526	692	24	480
Eccentric	C. Johnson	287,440	Oct. 30	2100	571	25	402
Eccentric and strap for steam-engines	N. Hunt	275,659	Apr. 10	1038	281	23	1411
Eccentric bearing	D. H. Lord	281,197	July 10	1064	293	24	192

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Eccentric-coupling for shakers	A. Scouller	284,907	Sept. 11	917	258	24	1068
Eccentric for steam-engines. Variable	M. C. Bullock	274,436	Mar. 20	1531	421	23	1113
Edge-setting machine	E. Patten	285,303	Sept. 18	1309	395	24	1160
Edger	J. A. Robb	290,358	Dec. 18	1225	344 345	25	1118
Edger attachment	S. W. Viets	289,184	Nov. 27	1745	485	25	836
Edger. Gang	T. J. Neacy	282,213	July 31	2382	655 656	24	435
Edgers. Adjustable roller-frame for	G. F. Burton	283,752	Aug. 28	1557	439	24	807
Educational apparatus	P. E. Lamberet and A. M. Billoud	281,770	July 24	1809	494	24	334
Educational device	S. F. Enos	288,628	Nov. 20	1060	291	25	707
Egg and flour mixer	A. Doll	270,642	Jan. 16	1007	290	23	213
Egg and fruit carrier	O. L. Parmenter	276,273	Apr. 24	1795	499 500	23	1558
Egg-beater	L. Burnham	277,218	May 8	886	236	23	1784
Egg-beater	L. Burnham	277,219	May 8	887	236	23	1784
Egg-beater	W. W. Carter	270,015	Jan. 2	223	64	23	46
Egg-beater	F. Earl	280,019	June 26	1743	489	23	2442
Egg-beater	K. A. Livingood	282,738	Aug. 7	324	92	24	556
Egg-beater	C. Schrebler	276,290	Apr. 24	1817	506	23	1562
Egg-boiler. Automatic	W. P. and W. B. O'Brien, Jr	284,051	Aug. 28	1934	541	24	872
Egg-carrier	J. H. Batchelder	283,954	Aug. 28	1799	509	24	850
Egg-carrier	A. L. Hill	272,548	Feb. 20	1210	338	23	667
Egg-carrier	C. W. Hunter	281,696	July 24	1708	464	24	316
Egg-carrier	J. W. Palmer	285,429	Sept. 25	1559	439	24	1193
Egg-carrier	J. L. Stevens	279,199	June 12	735	201	23	2259
Egg cell-case	J. Lynam	289,010	Nov. 27	1527	422	25	797
Egg-crate	W. O. Smith	284,252	Sept. 4	123	33	24	925
Egg-crate	F. F. Ward and F. Lindsey	282,810	Aug. 7	400	113	24	570
Egg. Desiccated	C. A. La Mont	283,618	Aug. 21	1380	.....	24	762
Egg or batter beater	S. Short	273,173	Feb. 27	2010	565	23	813
Egg-preserver. Rotary	A. R. P. Robinson	271,658	Feb. 6	88	24	23	455
Egg-preserving apparatus	T. Lee	269,866	Jan. 2	53	17	23	13
Egg-preserving mixture	G. A. Curtico	274,283	Mar. 20	1335	.....	23	1079
Egg rack and holder	J. C. Rundlett	283,285	Aug. 14	974	272	24	681
Egg-shelf	H. M. Lindenthal	276,612	May 1	83	23	23	1642
Egg-tester	J. P. Shaw	289,574	Dec. 4	254	71	25	932
Eggs. Device for handling	E. M. Wood	283,738	Aug. 21	1529	431	24	791
Eggs. Preserving	F. J. Praddex	281,555	July 17	1516	.....	24	279
Ejector	L. B. Fulton	281,050	July 10	876	244	24	162
Ejector	W. Huston	284,962	Sept. 11	983	277	24	1080
Ejector	D. W. Magee	284,453	Sept. 4	356	99	24	964
Ejector	H. N. Wickersham and W. Huston	272,816	Feb. 20	1553	435	23	728
Ejector and injector	L. B. Fulton	280,733	July 3	477	135	24	85
Ejector. Bilge-water	J. P. Graham	271,060	Jan. 23	1523	439	23	310
Ejector. Double-headed	W. J. Sherriff	277,072	May 8	711	185	23	1753
Ejector for wells	W. O. Robbins	277,346	May 8	1036	278	23	1811
Ejector, inspirator, and injector. Convertible	F. W. Kremer	282,092	July 31	2213	608	24	409
Elastic fabric for goring	T. J. Mayall	286,037	Oct. 2	318	89	25	59
Elastic fabrics. Machine for crimping and preparing	M. Gardner	290,030	Dec. 11	820	231	25	1038
Elastic or cord fabric	J. W. Green, Jr., and A. Smith	283,100	Aug. 14	749	211	24	640
Elastic roll	H. F. Case	269,828	Jan. 2	12	4	23	5
Elastic roller	J. W. Osborne	277,154	May 8	815	215	23	1772
Electric alarms. Circuit-closer for	L. A. Brigel	267,618	Oct. 30	2348	633	25	455
Electric alarms. Portable circuit-closer for	A. Wiswall	286,100	Oct. 2	396	109	25	73
Electric apparatus. Commutator for	W. H. Chapman	278,881	June 5	282	82	23	2171
Electric apparatus regulator	C. J. Van Depoele	285,528	Sept. 25	1673	471	24	1214
Electric-arc light	G. J. Murdock	275,510	Apr. 10	844	229	23	1378
Electric-arc light	J. A. Wetmore	272,811	Feb. 20	1546	434	23	727
Electric-arc lighting system	R. J. Sheehy	279,825	June 19	1491	417	23	2392
Electric battery	H. A. Burns	284,605	Sept. 11	545	154	24	1003
Electric battery	A. F. Delafield	287,641	Oct. 30	2371	639	25	460
Electric battery	P. Jablochkoff	273,739	Mar. 13	844	172	23	953
Electric battery	C. P. Orne	283,355	Aug. 14	1071	301	24	700
Electric battery	G. G. L. Velloni	290,654	Dec. 18	1622	446	25	1187
Electric-battery fluid	E. Berliner	270,884	Jan. 23	1309	378	23	275
Electric battery. Secondary	W. K. Freeman	270,778	Jan. 16	1183	341	23	246
Electric cable	P. B. Delany	283,763	Aug. 28	1570	444	24	810
Electric cable	W. Halkyard	289,092	Nov. 27	1632	451	25	815
Electric cable	W. W. Jacques	270,438	Jan. 9	744	218	23	154
Electric cable	W. J. Philips and G. L. Kitson	275,407	Apr. 10	714	191	23	1357
Electric cable	W. H. Sawyer	280,521	July 3	225	59	24	40
Electric cable	S. F. Shelbourne	275,424	Apr. 10	733	195	23	1360
Electric cable	R. S. Waring	290,375	Dec. 18	1245	350	25	1123
Electric cable or conductor	L. A. F. Herrmann	280,474	July 3	176	47	24	32
Electric cable. Subterranean	S. F. Shelbourne	275,425	Apr. 10	736	195	23	1360
Electric-cable support	A. Wright	277,528	May 15	1255	337	23	1854
Electric-cable support or hanger	A. S. Weaver	285,327	Sept. 18	1426	403	24	1165
Electric cable. Truck for paying off	R. S. Waring	284,100	Aug. 28	1996	556	24	883
Electric cables. Device for suspending	H. C. Root and J. C. Reilly	278,277	May 22	2166	596 597	23	2018
Electric cables. Joint-connection in lead-covered	R. S. Waring	284,099	Aug. 28	1994	555	24	883
Electric cables. Machine for making	J. Farrell. (Reissue)	10,401	Nov. 6	497	138	25	594
Electric cables. Machine for making	J. Farrell. (Reissue)	10,402	Nov. 6	501	139	25	595
Electric cables. Machine for making	E. E. and E. G. Rafer	280,764	July 3	525	147	24	93
Electric cables. Machine for manufacturing	W. J. Philips and G. L. Kitson	275,408	Apr. 10	715	191	23	1357
Electric cables. Testing	W. J. McElroy	284,138	Aug. 28	2049	569	24	892
Electric cables. Testing-box for underground	W. J. McElroy	284,139	Aug. 28	2051	569	24	892
Electric call	J. B. Currier	272,862	Feb. 27	1631	457	23	748
Electric call	J. B. Currier and D. H. Rice	276,960	May 1	539	146	23	1722
Electric call and signal	L. S. White	284,348	Sept. 4	231	65	24	943
Electric call apparatus	C. S. Shivler	281,931	July 24	2009	550	24	369
Electric carbon	H. Frasch	281,048	July 10	874	243	24	162

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drgs.	Vol.	Page.
Electric circuit and apparatus for synchronising clock-pendulums	H. L. Bailey	278,846	June 5	235	69	23	2163
Electric circuit-breaker	S. M. Plush	282,921	Aug. 7	527	149	24	594
Electric-circuit breaker	E. Weston	289,199	Nov. 27	1761	488	25	839
Electric-circuit breaker. Automatic	L. J. Phelps	281,202	July 10	1070	295	24	196
Electric-circuit changer. Automatic	C. J. Van Depoele	285,859	Oct. 2	100	29	25	20
Electric-circuit closer. Thermometric	M. Martin	286,722	Oct. 16	1189	320	25	231
Electric-circuit cut-off	A. L. Bogart	290,732	Dec. 25	1738	480	25	1214
Electric-circuit cut-out	A. L. Bogart	279,634	June 19	1275	354	23	2355
Electric circuit maker and breaker. Automatic	C. G. Perkins	290,470	Dec. 18	1386	382, 383	25	1146
Electric-circuit opener. Automatic	W. H. Sawyer	279,023	June 5	499	136	23	2208
Electric-circuit switch-board	F. Blake	276,316	Apr. 24	1728	478	23	1546
Electric-circuit track-instrument	C. A. Scott	283,152	Aug. 14	806	225	24	649
Electric-circuit wires. Fastening for	H. G. Fiske	271,825	Feb. 6	290	80	23	492
Electric circuits. Automatic cut-out for	R. J. Sheehy	281,799	July 24	1849	505	24	340
Electric circuits. Circuit-breaker and lightning-arrester for	J. W. Dyer	289,630	Dec. 4	318	89	25	944
Electric circuits. Device for making and breaking	R. W. Willson	271,560	Jan. 30	2155	620	23	428
Electric circuits. Safety-catch for	C. Goddard	287,533	Oct. 30	2213	601	25	431
Electric circuits. Station-call for	T. W. Mather	288,089	Nov. 6	369	102, 103	25	571
Electric commutator or switch	E. Thomson	283,167	Aug. 14	823	231	24	653
Electric conductor	F. Jacob	287,288	Oct. 23	1910	522, 523	25	366
Electric conductor	J. W. Rogers	279,189	June 12	726	199	23	2257
Electric conductor	H. D. Rogers	281,223	July 10	1098	303	24	201
Electric conductor	H. D. Stanley and G. Doolittle	283,433	Aug. 21	1171	329	24	723
Electric conductor	S. Tainter	289,795	Dec. 4	445	124, 125	25	964
Electric conductor. Compound	W. B. Hollingshead	284,423	Sept. 4	324	90	24	958
Electric-conductor conduit	L. Bannister	282,833	Aug. 7	427	121	24	576
Electric-conductor conduit	J. F. Martin	286,945	Oct. 16	1470	404	25	279
Electric conductor. Flexible	S. Bergmann	275,748	Apr. 10	1146	314	23	1430
Electric conductor or cable	J. W. Rogers	280,518	July 3	221	58. 59	24	40
Electric conductor or cable. Underground	J. B. Hyde	277,036	May 8	660	172	23	1745
Electric-conductor post	J. A. Devlin	286,397	Oct. 9	780	211	25	152
Electric conductor. Submarine	J. B. Hyde	290,881	Dec. 25	1918	530	25	1246
Electric conductor. Underground	J. B. Hyde	284,854	Sept. 11	854	240	24	1056
Electric conductors. Apparatus for constructing	J. B. Hyde	284,855	Sept. 11	856	241	24	1056
Electric conductors. Making	T. Egleston	286,796	Oct. 16	1280	345	25	247
Electric conductors. Manufacture of silicious copper and bronze for making	L. Weiller	277,089	May 8	733	.....	23	1757
Electric conductors. Underground conduit for	J. E. Giles	288,790	Nov. 20	1265	346	25	742
Electric-current regulator	C. G. Perkins	274,371	Mar. 20	1451	398	23	1099
Electric-current regulator	E. Thomson	271,948	Feb. 6	438	120, 121	23	518
Electric currents. Apparatus for controlling	M. Levy	286,833	Oct. 16	1323	361, 362	25	255
Electric currents. Apparatus for regulating	S. Z. De Ferranti and A. Thompson	288,315	Nov. 13	648	178, 179	25	629
Electric currents. Cut-out for dangerous	F. A. Swan and C. B. Bosworth	274,150	Mar. 20	1103	321	23	1049
Electric currents from high to low tension. Apparatus for translating	T. A. Edison	278,418	May 29	2371	647, 648	23	2062
Electric currents. System of generating and distributing	C. J. Van Depoele	287,347	Oct. 23	1983	541	25	379
Electric currents. System of generating and regulating	E. Weston	289,324	Nov. 27	1909	530, 531	25	868
Electric cut-off	J. A. Tupper	286,158	Oct. 2	461	125	25	86
Electric cut-out	E. M. Avery	276,328	Apr. 24	1884	523	23	1573
Electric cut-out	T. H. Rhodes	276,286	Apr. 24	1811	505	23	1561
Electric cut-out	F. A. Swan and C. B. Bosworth	274,151	Mar. 20	1104	321	23	1049
Electric cut-out. Automatic	C. G. Perkins	287,320	Oct. 23	1952	533	25	373
Electric distribution. System of	T. A. Edison	287,516	Oct. 30	2194	596	25	426
Electric divining-rod	C. F. Varley	277,087	May 8	731	191, 192	23	1757
Electric elevator	S. D. Field	275,179	Apr. 3	383	106	23	1292
Electric elevator	S. S. Wheeler	273,208	Feb. 27	2052	577, 578	23	821
Electric force. Apparatus for regulating the transmission of	M. Levy	273,291	Mar. 6	56	17, 18	23	844
Electric generator	S. J. Wallace	274,865	Mar. 27	2077	578	23	1215
Electric generator. Dynamo	I. Fisher	280,301	June 26	2074	584	23	2502
Electric generator. Dynamo	C. C. Peck and W. H. Chapman	276,275	Apr. 24	1799	501, 502	23	1559
Electric generator. Dynamo or magneto	F. Bain	287,608	Oct. 30	2332	630	25	452
Electric generators. Making elements for thermal	H. Frasch	286,268	Oct. 9	647	.....	25	128
Electric-induction machine	A. G. Waterhouse	271,169	Jan. 23	1657	476, 477	23	338
Electric light	J. G. Chassé	279,224	June 12	760	210	23	2263
Electric light	F. L. Senour	280,677	July 3	406	114	24	72
Electric light	H. A. Seymour	270,491	Jan. 9	802	234	23	167
Electric light	E. Weston	271,172	Jan. 23	1661	478	23	333
Electric light and gas-burner. Combined	W. A. Shaw	271,140	Jan. 23	1617	465	23	326
Electric-light brackets. Joint for	C. H. Hinds	282,317	July 31	2507	699	24	457
Electric-light circuits. Current-regulator for	C. R. Arnold	288,393	Nov. 13	770	208	25	648
Electric-light circuits. Safety-catch for	L. Stieringer	281,576	July 17	1541	422	24	292
Electric-light circuits. Safety self-closing shunt-switch for	E. Thomson	275,289	Apr. 3	516	142	23	1314
Electric-light circuits. Safety self-closing shunt-switch for	E. Thomson	275,290	Apr. 3	518	142	23	1314
Electric-light conductors. Support for	L. Stieringer	278,465	May 29	2431	663	23	2073
Electric-light fixtures. Connection for	S. Bergmann	275,749	Apr. 10	1146	314	23	1430
Electric light. Incandescent	T. L. Clingman	276,133	Apr. 17	1627	448	23	1521

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Electric-light joint	C. H. Hinds	282,318	July 31	2508	689	24	457
Electric-light regulator	R. J. Sheehy	281,800	July 24	1851	506	24	341
Electric-light stations. Switch-board for	R. J. Sheehy	284,247	Sept. 4	116	31, 32	24	924
Electric-light switch	T. G. Turner	275,440	Apr. 10	759	202	23	1364
Electric-light tower	B. F. Orton	280,850	July 10	637	179	24	118
Electric lights. Automatic cut-out for	A. Bernstein	283,748	Aug. 28	1551	438	24	806
Electric lights. Carbon electrode for	J. A. Moffitt	281,285	July 17	1179	.....	24	222
Electric lights, &c. Tower for	C. D. F. Smith	287,881	Nov. 6	112	34	25	527
Electric lighting	K. W. Hedges	284,420	Sept. 4	321	89	24	957
Electric lighting	H. Van Hoevenbergh	290,292	Dec. 18	1140	320	25	1103
Electric lighting apparatus	N. S. White	289,590	Dec. 4	274	77	25	935
Electric lighting for railway-trains. System of	C. E. Buell	270,735	Jan. 16	1128	323, 324	23	236
Electric lighting on railway-trains. Apparatus for	W. Stroudley and E. J. Houghton	288,888	Nov. 20	1378	379, 380	25	763
Electric lighting system	M. G. Farmer	285,602	Sept. 25	1763	500	24	1231
Electric lighting system	J. A. McCoy	287,040	Oct. 23	1596	439	25	308
Electric lighting systems. Indicator for	W. P. Freeman	287,654	Oct. 30	2388	644	25	463
Electric lighting systems. Recorder and register for	R. J. Sheehy	289,862	Dec. 11	614	171	25	1001
Electric lock	M. Sullivan	277,628	May 15	1376	371	23	1874
Electric machine. Dynamo-	F. Bain	280,708	July 3	443	126	24	79
Electric machine. Dynamo-	F. Bain	287,609	Oct. 30	2334	630	25	453
Electric machine. Dynamo-	F. Bain	287,610	Oct. 30	2337	631	25	453
Electric machine. Dynamo-	C. E. Ball	278,076	May 22	1900	520	23	1973
Electric machine. Dynamo-	C. E. Ball	284,357	Sept. 4	243	67, 68	24	945
Electric machine. Dynamo-	C. E. Ball	285,548	Sept. 25	1696	478	24	1219
Electric machine. Dynamo-	C. E. Ball	285,549	Sept. 25	1696	478	24	1219
Electric machine. Dynamo-	R. E. Ball	279,476	June 12	1085	300	23	2315
Electric machine. Dynamo-	R. E. Ball	280,439	July 3	128	34	24	24
Electric machine. Dynamo-	W. Baxter, Jr	271,972	Feb. 6	468	128	23	522
Electric machine. Dynamo-	A. Bernstein	284,999	Sept. 18	1039	291, 292	24	1096
Electric machine. Dynamo-	A. Chertemps and L. Danden	270,017	Jan. 2	224	65, 66	23	46
Electric machine. Dynamo-	W. B. Cleveland	284,277	Sept. 4	149	41	24	929
Electric machine. Dynamo-	J. A. I. Craig	277,237	May 8	907	243	23	1788
Electric machine. Dynamo-	J. A. I. Craig	277,238	May 8	908	244	23	1788
Electric machine. Dynamo-	S. Z. De Ferranti and A. Thompson	282,446	July 31	2682	735	24	488
Electric machine. Dynamo-	S. Z. De Ferranti and A. Thompson	288,316	Nov. 13	651	179, 180, 181	25	629
Electric machine. Dynamo-	A. F. Delafield	278,516	May 29	2491	680	23	2084
Electric machine. Dynamo-	J. Du Shane	290,550	Dec. 18	1492	412	25	1164
Electric machine. Dynamo-	J. W. Easton	290,551	Dec. 18	1493	413	25	1164
Electric machine. Dynamo-	N. H. Edgerton	279,362	June 12	938	262, 263	23	2292
Electric machine. Dynamo-	T. A. Edison	278,419	May 29	2372	648	23	2063
Electric machine. Dynamo-	T. A. Edison	287,512	Oct. 30	2190	595	25	425
Electric machine. Dynamo-	T. A. Edison	287,513	Oct. 30	2191	595	25	425
Electric machine. Dynamo-	T. A. Edison	287,514	Oct. 30	2191	595	25	426
Electric machine. Dynamo-	E. A. Edwards	281,985	July 24	2074	569	24	380
Electric machine. Dynamo-	W. B. F. Elphinstone and C. W. Vincent.	284,298	Sept. 4	159	44, 45, 46	24	931
Electric machine. Dynamo-	W. B. F. Elphinstone and C. W. Vincent.	288,042	Nov. 6	318	89, 90	25	562
Electric machine. Dynamo-	F. K. Fitch	285,949	Sept. 18	1339	377	24	1149
Electric machine. Dynamo-	W. P. Freeman	270,779	Jan. 16	1184	341	23	246
Electric machine. Dynamo-	W. P. Freeman	270,780	Jan. 16	1184	341, 342	23	246
Electric machine. Dynamo-	G. W. Fuller	278,119	May 22	1957	536, 537	23	1983
Electric machine. Dynamo-	G. W. Fuller	278,120	May 22	1960	537	23	1983
Electric machine. Dynamo-	G. W. Fuller	278,121	May 22	1963	538, 539	23	1983
Electric machine. Dynamo-	G. W. Fuller	278,122	May 22	1967	539, 540	23	1984
Electric machine. Dynamo-	G. W. Fuller	286,414	Oct. 9	798	216	25	155
Electric machine. Dynamo-	G. W. Fuller	286,416	Oct. 9	801	216	25	156
Electric machine. Dynamo-	J. E. Giles	281,052	July 10	878	245	24	162
Electric machine. Dynamo-	J. E. H. Gordon	284,292	Sept. 4	165	46, 47, 48	24	932
Electric machine. Dynamo-	J. Gray	285,027	Sept. 18	1080	301, 302	24	1103
Electric machine. Dynamo-	J. Hopkinson and A. Muirhead	280,039	June 26	1767	496, 497	23	2446
Electric machine. Dynamo-	E. J. Houston	272,256	Feb. 13	829	232	23	597
Electric machine. Dynamo-	E. J. Houston	283,343	Aug. 14	1051	295, 296	24	697
Electric machine. Dynamo-	E. J. Houston	286,612	Oct. 16	1047	282, 283	25	206
Electric machine. Dynamo-	V. E. Keegan	275,392	Apr. 10	697	186	23	1354
Electric machine. Dynamo-	A. S. Kimball	288,818	Nov. 20	1295	354, 355	25	747
Electric machine. Dynamo-	E. R. Knowles	282,459	July 31	2695	740, 741	24	490
Electric machine. Dynamo-	J. Lewis	270,230	Jan. 9	479	141, 142	23	104
Electric machine. Dynamo-	A. M. Loryea and C. H. Palmer	278,983	June 5	448	123	23	2200
Electric machine. Dynamo-	A. M. Loryea and C. H. Palmer	283,498	Aug. 21	1250	351	24	738
Electric machine. Dynamo-	J. J. and T. J. McTighe	270,325	Jan. 9	594	175	23	125
Electric machine. Dynamo-	T. J. McTighe	288,829	Nov. 20	1308	358, 359	25	750
Electric machine. Dynamo-	W. Morava	276,063	Apr. 17	1536	422	23	1505

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Electric machine. Dynamo-	J. Olmsted	290,098	Dec. 11	894	254	25	1051
Electric machine. Dynamo-	H. Roberts	276,194	Apr. 24	1703	470	23	1542
Electric machine. Dynamo-	R. J. Sheehy	285,691	Sept. 25	1864	532	24	1250
Electric machine. Dynamo-	E. Thomson	281,416	July 17	1345	371	24	250
Electric machine. Dynamo-	S. F. Van Choate	286,241	Oct. 9	560	154	25	113
Electric machine. Dynamo-	S. F. Van Choate	286,242	Oct. 9	562	154, 155, 156	25	113
Electric machine. Dynamo-	C. J. Van Depoele	275,549	Apr. 10	895	242	23	1367
Electric machine. Dynamo-	E. Weston	272,366	Feb. 13	967	270	23	619
Electric machine. Dynamo-	E. Weston	277,644	May 15	1392	375	23	1877
Electric machine. Dynamo-	E. Weston	278,641	May 29	2643	723	23	2110
Electric machine. Dynamo-	E. Weston	283,548	Aug. 21	1300	364	24	747
Electric machine. Dynamo-	K. Zipernowsky and M. Déri	284,110	Aug. 28	2008	559	24	885
Electric machine. Dynamo and magneto	E. Gordon	271,979	Feb. 6	485	131	23	524
Electric machine. Dynamo and magneto	J. M. McMahan	281,904	July 24	1981	542	24	364
Electric machine. Dynamo and magneto	C. A. Seeley	271,928	Feb. 6	420	114	23	514
Electric machine. Dynamo or magneto	F. Bain	287,611	Oct. 30	2338	631	25	453
Electric machine. Dynamo or magneto	T. A. Edison	281,353	July 17	1270	353	24	237
Electric machine. Dynamo or magneto	T. A. Edison	287,521	Oct. 30	2198	597	25	427
Electric machine. Dynamo or magneto	T. A. Edison	287,523	Oct. 30	2201	598	25	428
Electric machine. Dynamo or magneto	J. E. Giles	287,661	Oct. 30	2396	646	25	468
Electric machine. Dynamo or magneto	P. P. Nungesser	287,774	Oct. 30	2553	687	25	494
Electric machine. Dynamo or magneto	E. Weston	289,200	Nov. 27	1762	489	25	839
Electric-machine governor. Dynamo-	T. A. Edison	271,615	Feb. 6	38	10	23	447
Electric-machine governor. Dynamo-	W. P. Freeman	290,025	Dec. 11	813	229	25	1037
Electric-machine regulator. Dynamo-	J. S. Beeman, W. Taylor, and F. King.	288,963	Nov. 20	1468	406	25	781
Electric-machine regulator. Dynamo-	T. A. Edison	271,616	Feb. 6	39	10	23	447
Electric-machine regulator. Dynamo-	T. A. Edison	273,487	Mar. 6	315	86	23	887
Electric-machine regulator. Dynamo-	T. A. Edison	273,488	Mar. 6	317	86	23	887
Electric-machine regulator. Dynamo-	T. A. Edison	278,413	May 29	2366	646	23	2061
Electric-machine regulator. Dynamo-	T. A. Edison	278,414	May 29	2367	646	23	2062
Electric-machine regulator. Dynamo-	T. A. Edison	281,349	July 17	1263	351	24	236
Electric-machine regulator. Dynamo-	T. A. Edison	281,350	July 17	1264	351	24	236
Electric-machine regulator. Dynamo-	T. A. Edison	287,524	Oct. 30	2202	598	25	428
Electric-machine regulator. Dynamo-	J. E. Giles	290,412	Dec. 18	1293	363	25	1131
Electric-machine regulator. Dynamo-	G. J. Murdock	287,565	Oct. 30	2257	612, 613	25	440
Electric-machine regulator. Dynamo-	R. J. Sheehy	283,155	Aug. 14	810	226	24	650
Electric-machine regulator. Dynamo-	C. J. Van Depoele	287,343	Oct. 23	1977	540	25	378
Electric-machine regulator. Dynamo-	J. F. Ott	271,654	Feb. 6	82	23	23	455
Electric-machine regulator. Dynamo-	E. Weston	278,640	May 29	2641	722	23	2110
Electric machine regulator. Dynamo or magneto	T. A. Edison	288,318	Nov. 13	656	181, 182	25	630
Electric machine regulator. Dynamo or magneto	E. Weston	289,325	Nov. 27	1910	531	25	868
Electric machines. Air-blast attachment for commutators of dynamo-	E. Thomson	273,406	Mar. 6	214	58	23	670
Electric machines. Apparatus for cooling the armatures of dynamo-	P. H. Vander Weyde	270,518	Jan. 9	849	247	23	176
Electric machines. Armature for dynamo-	C. F. Brush	285,457	Sept. 25	1590	447	24	1199
Electric machines. Armature for dynamo-	L. Daft	276,568	May 1	31	8	23	1632
Electric machines. Armature for dynamo-	L. Daft	277,119	May 8	769	202	23	1763
Electric machines. Armature for dynamo-	E. A. Edwards	275,169	Apr. 3	370	102	23	1290
Electric machines. Armature for dynamo-	W. P. Freeman	270,781	Jan. 16	1186	342	23	246
Electric machines. Armature for dynamo-	W. P. Freeman	281,049	July 10	875	243	24	162
Electric machines. Armature for dynamo-	G. W. Fuller	286,415	Oct. 9	800	216	25	155
Electric machines. Armature for dynamo-	J. E. Giles	288,051	Nov. 6	330	92	25	563
Electric machines. Armature for dynamo-	E. R. Knowles and F. E. Idell	279,399	June 12	997	277	23	2301
Electric machines. Armature for dynamo-	J. T. Lister	283,624	Aug. 21	1387	387, 388	24	763
Electric machines. Armature for dynamo-	T. Wolcott	286,247	Oct. 9	574	158	25	115
Electric machines. Automatic regulator for dynamo-	F. S. Giel	282,187	July 31	2352	648	24	430
Electric machines. Combined current-indicator and commutator-adjuster for dynamo-	R. J. Sheehy	279,926	June 19	1493	417, 418	23	2393
Electric machines. Commutator for dynamo-	F. M. Brown and C. B. Bosworth	280,288	June 26	2057	578	23	2499
Electric machines. Commutator for dynamo-	T. J. McTighe and J. T. McConnell.	288,830	Nov. 20	1309	359	25	750
Electric machines. Commutator for dynamo-	E. Thomson	271,947	Feb. 6	436	120	23	517
Electric machines. Coupling shunt dynamo-	R. H. Mather	286,325	Oct. 9	695	185	25	136
Electric machines. Device for adjusting the brushes of dynamo-	C. J. Van Depoele	285,527	Sept. 25	1671	471	24	1214
Electric machines or electric motors. Armature for dynamo-	W. K. Freeman	270,777	Jan. 16	1182	339, 340	23	245
Electric machines. Safety-switch for dynamo-	C. J. Van Depoele	287,345	Oct. 23	1980	541	25	379
Electric machines. Wiper for the commutators of dynamo-	R. Holbon	287,678	Oct. 30	2417	652	25	470
Electric meter	W. S. Johnson	286,445	Oct. 9	835	226	25	162
Electric motor	J. B. Atwater	274,101	Mar. 20	1098	303, 304	23	1037
Electric motor	C. A. Jackson	289,540	Dec. 4	210	59	25	923
Electric motor	C. A. Jackson	289,541	Dec. 4	211	59	25	923
Electric motor	F. Kühmaier	289,918	Dec. 11	686	191	25	1013
Electric motor	A. Millar	271,502	Jan. 30	2088	600, 601	23	417
Electric motor	C. C. Peck and W. H. Chapman	279,007	June 5	477	131	23	2205
Electric motor	C. C. Peck and W. H. Chapman	279,008	June 5	479	131	23	2205
Electric motor	W. L. Silvey	269,888	Jan. 2	76	24	23	17
Electric motor	H. W. Spang	279,036	June 5	520	142	23	2212
Electric motor	L. W. Stockwell	284,255	Sept. 4	124	34	24	926
Electric motor	C. J. Van Depoele	285,857	Oct. 2	97	29	25	19
Electric motor	S. S. Wheeler, C. G. Curtis, and F. B. Crocker.	271,175	Jan. 23	1667	480	23	334
Electric motors. Armature for	C. E. Ball	285,547	Sept. 25	1695	478	24	1219

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Electric motors. Speed-regulator and reversing device for	E. J. Molera and J. C. Cebrian	275,842	Apr. 17	1277	351	23	1459
Electric regulator	T. A. Edison	287,511	Oct. 30	2188	594	25	425
Electric regulator for controlling the current in electrical systems.	M. Levy	286,834	Oct. 16	1327	362, 363	25	255
Electric-signal box	J. C. Wilson and M. G. Davis	288,536	Nov. 13	941	257, 258	25	679
Electric signals. Apparatus for interlocking	A. W. Hall	284,842	Sept. 11	842	236, 237	24	1053
Electric signaling apparatus	C. Cummings	275,600	Apr. 10	955	259, 260	23	1398
Electric signaling apparatus. Automatic	F. B. Wood	275,006	Apr. 3	159	43	23	1253
Electric storage and supply. System of	C. E. Buell	270,734	Jan. 16	1126	323	23	235
Electric switch	W. Adams	285,778	Oct. 2	1	1	25	3
Electric switch	D. P. Heap	281,363	July 17	1282	355	24	239
Electric switch and cut-out	C. G. Perkins	287,322	Oct. 23	1954	533	25	374
Electric switch and signal apparatus	A. W. Hall	284,841	Sept. 11	839	235, 236	24	1053
Electric switch. Automatic	H. W. Spang	281,937	July 24	2016	552	24	370
Electric switch-board	H. W. Breckenridge	290,845	Dec. 25	1877	518	25	1239
Electric switch-board	W. J. McElroy	278,353	May 29	2294	627	23	2049
Electric switch-board	T. J. Perrin	271,913	Feb. 6	397	109	23	511
Electric switch-board and signaling apparatus	T. W. Lane	287,300	Oct. 23	1928	527	25	369
Electric switch or circuit controller	A. Bernstein	284,715	Sept. 11	687	194	24	1026
Electric testing apparatus	C. J. H. Woodbury	274,074	Mar. 13	1060	293	23	1024
Electric time-signaling device	H. G. Van Wagenen	285,068	Sept. 18	1150	321	24	1115
Electric transmission of power. System for the	E. Weston	272,365	Feb. 13	966	269	23	619
Electric transmitter	S. D. Field	287,267	Oct. 23	1883	515	25	360
Electric underground cable	F. A. Smith	280,869	July 10	659	186	24	123
Electric underground conductor	R. M. Hunter	272,441	Feb. 20	1078	304	23	643
Electric way	E. M. Bentley	276,953	May 1	551	143	23	1720
Electric way	E. M. Bentley	276,954	May 1	552	143	23	1720
Electric way	E. M. Bentley and W. H. Knight	276,757	May 1	298	76	23	1676
Electric way	W. H. Knight and E. M. Bentley	276,929	May 1	380	101, 102	23	1693
Electric wire	W. Halkyard	284,959	Sept. 11	980	276	24	1079
Electric wire	C. McIntire	278,811	June 5	180	52	23	2153
Electric-wire cable	J. Mackintosh	269,868	Jan. 2	55	17	23	13
Electric-wire conduit	B. A. Dryer	288,555	Nov. 13	963	265	25	683
Electric-wire conduit	C. H. Goebel	290,413	Dec. 18	1295	363	25	1131
Electric-wire conduit	I. M. Green and J. P. Birch	284,413	Sept. 4	310	86, 87	24	956
Electric-wire conduit	J. F. Martin	286,938	Oct. 16	1456	400	25	277
Electric-wire conduit	J. F. Martin	286,940	Oct. 16	1460	401	25	277
Electric-wire conduit	J. F. Martin	286,950	Oct. 16	1476	405	25	280
Electric-wire conduit	J. A. Mchaffey	276,190	Apr. 24	1696	469	23	1541
Electric-wire conduit	S. Parker	279,977	June 26	1683	472	23	2432
Electric-wire conduit. Underground	C. H. Goebel	290,414	Dec. 18	1296	363	25	1131
Electric-wire conduit. Underground	C. H. Goebel	290,415	Dec. 18	1297	363	25	1131
Electric-wire conduit. Underground	C. H. Goebel	290,416	Dec. 18	1298	364	25	1132
Electric-wire duct	J. C. Goodridge, Jr.	278,233	May 22	2108	581	23	2008
Electric wire. Machine for covering	W. Halkyard	278,009	May 22	1829	499	23	1960
Electric-wire protector	J. O. Cottrell	278,886	June 5	287	83	23	2172
Electric wires and adjusting the wires in the same. Ventilating-conduit for	W. Hendley	281,220	July 10	1093	301, 302	24	200
Electric wires and lamps. Support for	J. V. Hirley	286,437	Oct. 9	826	224	25	161
Electric wires. Binding-screw for	E. C. Coolidge	273,259	Mar. 6	19	6	23	838
Electric wires. Conduit for	W. H. Johnstone	274,611	Mar. 27	1779	494	23	1163
Electric wires. Conduit for underground	J. Du Shane	280,919	July 10	716	201	24	133
Electric wires. Curbstone and sidewalk conduit for	E. Clark	278,095	May 22	1926	529	23	1977
Electric wires. Distributer for	J. F. Martin	286,942	Oct. 16	1464	402, 403	25	278
Electric wires. Distributing-box for	J. F. Martin	286,949	Oct. 16	1474	405	25	280
Electric wires. Gutter, curbstone, and sidewalk conduit for	E. Clark	287,237	Oct. 23	1848	505, 506	25	354
Electric wires. Laying underground	J. Marks	277,588	May 15	1328	356	23	1865
Electric wires. Laying underground	C. D. Shrieves and J. E. Cook	276,486	Apr. 24	2071	575	23	1605
Electric wires. Safety device for	A. Bernstein	284,714	Sept. 11	686	193	24	1026
Electric wires. Subterranean line of	H. B. Cobb	288,311	Nov. 13	643	177	25	628
Electric wires. System of laying subterranean lines of	H. B. Cobb	288,310	Nov. 13	643	176	25	628
Electric wires. System of laying subterranean lines of	J. T. Goodfellow	272,833	Feb. 20	1571	442, 443	23	731
Electric wires. Underground conduit for	H. Clay	275,023	Apr. 3	190	50	23	1258
Electric wires. Underground conduit for	J. S. Du Bois	272,221	Feb. 13	789	219	23	589
Electric wires. Underground conduit for	W. H. Johnstone	279,392	June 12	987	275	23	2299
Electric wires. Underground conduit for	E. Omensetter	283,807	Aug. 28	1622	457	24	818
Electric wires. Underground conduit for	W. Plankinton	273,305	Mar. 6	80	24	23	847
Electric wires. Underground distributer for	J. F. Martin	286,939	Oct. 16	1459	401	25	277
Electrical apparatus for automatic signaling	J. C. Wilson	279,065	June 5	555	152, 153	23	2218
Electrical cable	H. F. Campbell	290,854	Dec. 25	1888	521	25	1241
Electrical cable	S. D. Strohm	289,164	Nov. 27	1712	477	25	830
Electrical cable	S. D. Strohm	289,165	Nov. 27	1714	477	25	831
Electrical cable	S. D. Strohm	289,166	Nov. 27	1715	478	25	831
Electrical conductor	G. F. Barker	274,699	Mar. 27	1881	524	23	1182
Electrical conductor	H. F. Campbell	290,853	Dec. 25	1887	521	25	1241
Electrical conductor	H. F. Campbell	290,971	Dec. 25	2045	562	25	1266
Electrical conductor	P. B. Delany	283,764	Aug. 28	1571	444	24	810
Electrical conductor	P. B. Delany	290,753	Dec. 25	1767	498	25	1220
Electrical conductor	P. G. Gardner, Jr., J. W. Le Roy, and G. K. Tinker.	271,832	Feb. 6	299	81	23	493
Electrical conductor	F. Moore	284,970	Sept. 11	991	279	24	1081
Electrical conductor	T. S. Reed	276,880	May 1	446	119	23	1705
Electrical conductor	T. S. Reed	286,963	Oct. 16	1491	410	25	283

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Electric machine. Dynamo-	J. Olmsted	,121	Dec. 11	927	263	25	1058
Electric machine. Dynamo-	H. Roberts	,7,374	May 8	1066	287	23	1316
Electric machine. Dynamo-	R. J. Sheehy	278,289	May 22	2183	601	23	2091
Electric machine. Dynamo-	E. Thomson	288,443	Nov. 13	859	225	25	660
Electric machine. Dynamo-	S. F. Van Choate	273,429	Mar. 6	241	65	23	875
Electric machine. Dynamo-	S. F. Van Choate	284,216	Sept. 4	77	22	24	918
		286,086	Oct. 2	376	104	25	69
		290,122	Dec. 11	928	263	25	1058
Electric machine. Dynamo-	C. J. Van De-						
Electric machine. Dynamo-	E. Weston	275,776	Apr. 10	1186	325	23	1437
Electric machine. Dynamo-	E. Westo-	273,859	Mar. 13	807	218	23	980
Electric machine. Dynamo-	E. Wes-						
Electric machine. Dynamo-	E. W-						
Electric machine. Dynamo-	K. 7	287,532	Oct. 30	2211	600, 601	25	430
Electric machine. Dynamo and magneto	E	284,915	Sept. 11	927	261	24	1069
Electric machine. Dynamo and magneto	E. Townsend, Jr.	278,635	May 29	2635	721	23	2109
Electric machine. Dynamo and magneto	W. R. Patterson	281,722	July 24	1747	473, 474	24	322
Electric machine. Dynamo or magneto	H. R. Meyer	274,213	Mar. 20	1249	344	23	1064
Electric machine. Dynamo or magneto	J. E. Hamilton	279,646	June 19	1286	358	23	2357
Electric machine. Dynamo or magneto	H. E. Long	278,246	May 29	2286	625	23	2048
Electric machine. Dynamo or magneto	C. J. Van Depoele	270,352	Jan. 9	625	185	23	132
Electric machine. Dynamo or magneto	S. D. Strohm	272,792	Feb. 20	1523	429	23	722
Electric-machine governor. Dynamo	T. A. Edison and C. L. Clarke	287,525	Oct. 30	2204	598, 599	25	429
Electric-machine governor. Dynam-	T. A. Edison	274,290	Mar. 20	1346	370	23	1061
Electric-machine regulator. Dyna-	T. A. Edison	290,727	July 3	466	133	24	83
Electric-machine regulator.	T. A. Edison	283,983	Aug. 28	1830	517	24	856
Electric-machine regulator	T. A. Edison	283,984	Aug. 28	1832	517	24	856
Electric-machine regulat	T. A. Edison	283,985	Aug. 28	1833	518	24	857
Electric-machine regul	T. A. Edison	283,986	Aug. 28	1835	518	24	857
Electric-machine regr	T. A. Edison	287,515	Oct. 30	2193	596	25	426
Electric-machine re	T. A. Edison	287,517	Oct. 30	2195	596	25	427
Electric-machine	E. T. Greenfield	278,535	May 29	2514	686	23	2068
Electric-machin	T. A. Edison	273,828	Mar. 13	764	207	23	973
Electric-mach	M. G. Farmer	290,873	Dec. 25	1907	527	25	1244
Electric-ma	T. A. Edison	281,351	July 17	1265	352	24	236
Electric-m	T. A. Edison	276,233	Apr. 24	1749	485	23	1550
Electric-r	T. A. Edison	273,493	Mar. 6	322	87	23	889
Electric	E. Weston	289,326	Nov. 27	1911	531	25	869
Electr	T. A. Edison	276,232	Apr. 24	1746	484, 485	23	1550
Elect	T. A. Edison	273,491	Mar. 6	319	87	23	888
Eler							
t	F. H. Snell	292,791	Aug. 7	380	107, 108	24	567
E'	M. D. and T. A. Connolly	279,713	June 19	1365	381	23	2370
Electrical indicators. Unison mechanism for	P. Atkinson	275,347	Apr. 10	627	168, 169	23	1342
Electrical instrument protector	E. Weston	283,547	Aug. 21	1299	363	24	747
Electrical machine. Frictional	R. Stilwell	285,853	Oct. 2	89	27	25	18
Electrical meter	J. J. C. Smith	276,725	May 1	252	65	23	1668
Electrical or galvanic currents to beds, couches, &c. Applying	J. J. C. Smith	276,724	May 1	250	63, 64	23	1667
Electrical purposes. Covering-wire for	E. Dummer	288,556	Nov. 13	964	266	25	684
Electrical purposes. Machine for covering wire for	W. S. Johnson	283,736	Aug. 21	1526	431	24	790
Electrical signal	C. W. McLean	276,263	Apr. 24	1785	496	23	1556
Electrical signaling device	T. J. Perrin	271,914	Feb. 6	399	109	23	511
Electrical switch-board	E. Flint, Jr.	279,557	June 19	1188	329	23	2339
Electrical switch-board plug	P. B. Delany	286,281	Oct. 9	635	170	25	125
Electrical synchronous mechanism	P. B. Delany	286,273	Oct. 9	602	165	25	120
Electrical synchronous movement	P. B. Delany	286,274	Oct. 9	605	166	25	121
Electrical synchronous movement	P. B. Delany	286,275	Oct. 9	610	166	25	122
Electrical synchronous movement	P. B. Delany	286,276	Oct. 9	615	167	25	123
Electrical synchronous movement	P. B. Delany	286,277	Oct. 9	619	167, 168	25	123
Electrical synchronous movement	P. B. Delany	286,278	Oct. 9	623	168	25	124
Electrical testing	C. S. Bradley	287,501	Oct. 30	2177	591	25	423
Electrical transmission of power. Apparatus for regulating and controlling the	E. Weston	289,198	Nov. 27	1758	488	25	839
Electrical transmission of power. Controlling the	E. Weston	273,329	Mar. 6	116	33	23	854
Electrical transmission of power. Device for regulating the	E. Weston	272,362	Feb. 13	960	267	23	618
Electrical transmission of power. Device for regulating the	E. Weston	272,363	Feb. 13	962	268	23	618
Electrical transmission of power. Device for regulating the	E. Weston	272,364	Feb. 13	964	269	23	619
Electrical-wire conduit	J. F. Martin	275,399	Apr. 10	705	188	23	1355
Electrical-wire protector	J. O. Cottrell	278,885	June 5	286	83	23	2172
Electrical wires underground. Housing and insulation of	C. C. Gilman	288,629	Nov. 20	1060	291	25	707
Electricity. Apparatus for lighting cars by	G. D. Burton	282,158	July 31	2309	634	24	423
Electro-deposition of metals upon forms. Manufacturing articles by	W. Wallace	290,949	Dec. 25	2008	553	25	1261
Electro-magnetic alarm	A. Wiswall	286,888	Oct. 16	1396	383	25	267
Electro-magnetic brake	L. Daft	289,896	Dec. 11	657	183	25	1008
Electro-magnetic engine	G. W. Foster	277,475	May 15	1191	320	23	1844
Electro-magnetic motor	W. M. Thomas	279,045	June 5	530	144, 145	23	2213
Electro-magnetic motor	S. F. Van Choate	286,876	Oct. 16	1374	377	25	263
Electro-magnetic motor	E. Weston	283,546	Aug. 21	1298	363	24	746
Electro-magnetic motor. Rotary	J. B. Atwater	278,760	June 5	103	29, 30	23	2141

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
...ty cut-out for	E. Weston	289,197	Nov. 27	1757	488	25	838
...	R. H. Tucker	272,799	Feb. 20	1531	431	23	724
...	E. Thomson	272,353	Feb. 13	947	263	23	616
...	F. L. Pope	284,480	Sept. 4	386	107	24	969
...	E. T. Starr	290,941	Dec. 25	1998	551	25	1259
...	E. T. Starr	290,942	Dec. 25	2000	551	25	1259
...	N. C. Cookson	279,346	June 12	920	257	23	2289
...	W. S. Platt	273,598	Mar. 6	462	124	23	913
...	E. T. Starr	290,943	Dec. 25	2001	551	25	1260
...forming	C. F. Brush	286,259	Oct. 9	588	161	25	118
...Making	W. Wallace	278,638	May 29	2639	721	23	2109
...	W. E. Case	289,386	Dec. 4	17	.....	25	890
...	L. Stieringer	272,169	Feb. 13	723	199	23	577
...nnection	H. Edmunds, Jr	290,407	Dec. 18	1286	361	25	1130
...nding and circuit-controlling	A. W. Brewtnall	284,805	Sept. 11	798	223	24	1045
...ng	A. Classen	273,467	Mar. 6	295	.....	23	883
...ating bath and salts. Producing an	W. H. Williams	286,359	Oct. 9	733	.....	25	144
...oplating. Composition for brass	J. M. Thomas	273,324	Mar. 6	105	.....	23	852
...ectrotype or stereotype plate holder	H. G. Waterson	272,807	Feb. 20	1542	433	23	726
Electrotype-plate	S. S. Hoe	286,221	Oct. 16	1311	357	25	253
Electrotype-rollers for imitating leather, &c. Manufacturing	N. L. Cocheu	276,777	May 1	323	84	23	1682
Elevating and carrying apparatus	I. Bishop	285,873	Oct. 2	115	34	25	22
Elevating and distributing dredged and other materials. Apparatus for	H. H. Gorringe	275,643	Apr. 10	1020	275	23	1408
Elevating devices. Friction-brake for	J. A. Evarts	287,262	Oct. 23	1877	514	25	359
Elevating hay, &c. Apparatus for	E. Hiatt	287,930	Nov. 6	176	50	25	538
Elevator: *See* Adjustable elevator. Belt and bucket elevator. Coal-elevator. Corn-sheller elevator. Cotton-elevator. Electric elevator. Grain-elevator. Harvester grain-elevator. Hay-elevator. Hod-elevator. Hydraulic and other elevators. Ice-elevator. Mail-elevator. Mine-shaft elevator. Package-elevator. Platform-elevator. Pneumatic elevator. Portable elevator. Power-elevator. Railway rail and tie elevator. Safety-elevator. Water-elevator.							
Elevator	E. Bachmann	284,352	Sept. 4	235	66	24	944
Elevator	E. Bachmann	286,760	Oct. 16	1234	333	25	239
Elevator	W. M. Bailey	269,994	Jan. 2	202	58	23	42
Elevator	C. W. Baldwin	276,332	Apr. 24	1889	524	23	1573
Elevator	C. H. Bidwell	285,788	Oct. 2	10	3	25	4
Elevator	J. B. and W. M. Brimer	277,212	May 8	880	234	23	1782
Elevator	G. W. Clayton	287,802	Nov. 6	16	5	25	510
Elevator	L. Daso	276,784	May 1	331	88	23	1683
Elevator	L. Daso	276,785	May 1	333	88	23	1684
Elevator	A. M. Dungan and M. Lacrone	280,151	June 26	1889	531, 532	23	2469
Elevator	W. Dutemple	287,012	Oct. 23	1558	429	25	300
Elevator	W. Goddard	275,037	Apr. 3	206	56	23	1261
Elevator	J. Greenwood	273,273	Mar. 6	33	11	23	840
Elevator	W. F. Hall and P. G. Hubert	276,396	Apr. 24	1966	544	23	1587
Elevator	S. W. Hoag, Sr	279,648	June 19	1291	359	23	2358
Elevator	G. Mitchell	272,970	Feb. 27	1761	492	23	769
Elevator	C. R. Otis	271,353	Jan. 30	1896	549	23	382
Elevator	E. L. Parker and S. Peterson	282,763	Aug. 7	350	99	24	561
Elevator	R. Phillips	271,264	Jan. 30	1772	514	23	360
Elevator	G. N. Reiff	275,060	Apr. 3	266	73	23	1271
Elevator	F. M. Reynolds and G. C. Tewksbury.	280,670	July 3	399	111	24	71
Elevator	W. H. Ridgway	276,076	Apr. 17	1549	427	23	1508
Elevator	E. Salon	285,309	Sept. 18	1404	397	24	1161
Elevator	B. Sewall	275,950	Apr. 17	1400	386	23	1482
Elevator	U. P. Smith	280,251	June 26	2009	565	23	2490
Elevator	W. R. Smith	283,431	Aug. 21	1169	328	24	723
Elevator	C. L. Soyez	276,491	Apr. 24	2079	577	23	1606
Elevator	G. B. Thayer	283,831	Aug. 28	1648	464, 465	24	823
Elevator	C. Whittier	275,003	Apr. 3	151	42	23	1252
Elevator-alarm	A. Nickerson	284,654	Sept. 11	604	170	24	1012
Elevator and conveyer	I. N. Matlick	289,291	Nov. 27	1865	518	25	860
Elevator and dumb-waiter brake	M. J. Lawlor	276,052	Apr. 17	1524	419	23	1503
Elevator attachment	J. D. Sinclair	285,437	Sept. 25	1567	441	24	1194
Elevator-brake	R. W. Weymouth	290,297	Dec. 18	1146	321	25	1104
Elevator-bucket	N. S. Ackerly	288,197	Nov. 13	508	141	25	605
Elevator-bucket	H. W. Caldwell	280,909	July 10	703	198	24	131
Elevator-bucket	S. L. Chapman	286,590	Oct. 16	1017	275	25	201
Elevator-bucket	W. Egin	270,035	Jan. 2	245	71	23	51
Elevator-bucket	J. A. Holmes	290,053	Dec. 11	845	240	25	1042
Elevator-bucket	F. T. La Rose	288,581	Nov. 13	996	274	25	690
Elevator-bucket	R. B. Little	287,139	Oct. 23	1717	470	25	332
Elevator-buckets to belts. Attaching	F. A. Wittich and P. W. Strader	281,746	July 24	1773	483	24	327
Elevator-cars. Regulator for controlling the descent of	A. Gallinant	287,922	Nov. 6	166	48	25	536
Elevator-clutch. Automatic	E. T. Herrick	274,770	Mar. 27	1963	546	23	1196
Elevator-gate	B. C. Vanduzen	288,383	Nov. 13	752	204	25	646
Elevator-gate. Automatic	G. V. Delue	274,887	Mar. 27	2105	586	23	1219

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Elevator-gate. Automatic	W. L. Goffney	290,396	Dec. 18	1187	333	25	1111
Elevator-gate lock	J. W. Ellwanger and W. Eddington.	270,648	Jan. 16	1020	293	23	215
Elevator-guard	J. J. Knapp	278,974	June 5	439	120	23	2198
Elevator-guard. Automatic	R. P. Rankin	288,113	Nov. 6	401	113	25	577
Elevator-lock	G. A. Grover and E. E. Worden	287,668	Oct. 30	2406	648	25	467
Elevator-platforms. Safety apparatus for	V. W. Mason	276,849	May 1	404	107	23	1697
Elevator safety appliance	R. A. Chesebrough	286,684	Oct. 16	1141	307	25	228
Elevator safety appliance	A. Fitzroy	289,905	Dec. 11	670	187	25	1010
Elevator safety appliance	L. H. Heynemann	269,855	Jan. 2	43	14	23	11
Elevator safety appliance	J. Hodges	287,287	Oct. 23	1908	522	25	365
Elevator safety appliance	J. Hodges	288,806	Nov. 20	1279	350, 351	25	745
Elevator safety appliance	W. Pintard	286,064	Oct. 2	351	98	25	65
Elevator safety attachment	O. C. Berchtold and E. I. Lauffer	290,202	Dec. 18	1028	289	25	1064
Elevator safety attachment	C. A. Carscadin and F. P. Fish	277,226	May 8	892	238	23	1785
Elevator safety attachment	N. P. Cleaves	272,413	Feb. 20	1047	294	23	638
Elevator safety attachment	E. C. L. Kunnecke	290,331	Dec. 18	1194	334, 335	25	1113
Elevator safety attachment	O. S. Nowell	285,762	Sept. 25	1964	556	24	1966
Elevator safety attachment	A. C. Rice	277,343	May 8	1032	277	23	1810
Elevator safety attachment	P. J. Singer	277,073	May 8	712	185	23	1754
Elevator safety attachment	F. W. Voerde	280,419	July 3	96	26	24	20
Elevator safety-brake	C. Lossow	285,760	Sept. 25	1962	555, 556	24	1966
Elevator safety-brake. Automatic	W. J. Seaton	279,024	June 5	503	137	23	2209
Elevator safety-catch	A. C. Hope	283,110	Aug. 14	761	214	24	642
Elevator safety device	O. B. Gaston	288,325	Nov. 13	670	184	25	632
Elevator safety device	C. C. Palmer	281,550	July 17	1509	415	24	278
Elevator safety-dog	G. Pilson	278,595	May 29	2580	704	23	2090
Elevator safety-gate	W. H. Ivers	272,552	Feb. 20	1215	340	23	667
Elevator safety-guard	W. A. Ingalls	289,350	Nov. 27	1938	538	25	873
Elevator safety-stop	F. P. Canfield	281,016	July 10	835	232	24	155
Elevator safety-stop	W. Whitely	282,817	Aug. 7	408	115	24	572
Elevator-shafts and their hatchways. Protecting	D. W. and H. D. Swift	273,323	Mar. 6	104	31	23	852
Elevator-shafts. Automatic safety-hatch for	H. Albert	285,097	Sept 18	1159	324	24	1116
Elevator-shafts. Safety device for	E. E. Bawsel	274,257	Mar. 20	1305	359	23	1074
Elevators. Actuating mechanism and safety-brake for	C. S. Longstreet	272,965	Feb. 27	1755	490	23	766
Elevators. Follower for ram	W. R. Low	288,352	Nov. 13	706	193, 194	25	638
Ellipses. Machine for describing or cutting	J. Hottinger	288,810	Nov. 20	1284	352	25	746
Ellipsograph	C. W. Stickney	274,598	Mar. 27	1678	465, 466	23	1145
Elliptic spring	C. H. Parsons	278,175	May 22	2031	558	23	1995
Embossing-machine	A. Stirk	283,829	Aug. 28	1645	463, 464	24	822
Embossing upon plastered walls and other surfaces	J. H. Harding	278,238	May 22	2114	582	23	2009
Embroidering-machine	J. Becker	281,231	July 17	1112	307	24	210
Embroidering-machine	E. Cornely. (Reissue)	10,277	Jan. 23	1704	492, 493	23	340
Embroidering-machine	J. A. Groebli	283,707	Aug. 21	1489	419, 420, 421	24	783
Embroidering-machine	J. Jonson	277,289	May 8	967	259, 260, 261	23	1799
Embroidering-machines. Holding ring and frame for	B. F. Robinson	274,034	Mar. 13	1007	276	23	1014
Embroidery	K. L. Tarbox	279,042	June 5	525	143	23	2213
Embroidery-machine	C. N. Wurth	271,182	Jan. 23	1675	482, 483, 484	23	335
Embroidery-patterns. Producing transferable	M. E. Bingaman	277,665	May 15	1418	.....	23	1881
Emery and corundum wheels and other tools. Composition for	S. Pulson and M. L. Snow	275,704	Apr. 10	1088	.....	23	1420
Emery and polishing wheels. Obtaining rotating centers of	J. D. Huntington	290,056	Dec. 11	848	241	25	1043
Emery-wheel	A. Ball	277,659	May 15	1410	380	23	1880
Emery-wheel	J. McLaughlin	278,578	May 29	2560	699	23	2096
Emery-wheel	A. Persson and O. Söderberg	279,009	June 5	492	.....	23	2205
Emery-wheel for grinding twist-drills, &c	F. Landers	288,069	Nov. 6	346	97	25	566
Emery-wheel for sharpening saws	J. R. Hoffman	271,634	Feb. 6	63	18	23	451
Emery-wheel safety device	H. S. Lucas	286,210	Oct. 9	526	145	25	107
Emery-wheels. Surface-grinding table for	B. H. Hadley	280,033	June 26	1761	494	23	2445
Emery-wheels. Tool for facing	J. D. Huntington	288,638	Nov. 20	1069	294	25	709
End-gate	D. Arnold	279,687	June 19	1339	372	23	2365
End-gate	I. Eaton	280,020	June 26	1743	489	23	2442
End-gate	T. Fleming	271,198	Jan. 23	1695	489	23	338
End-gate	F. Myers	278,167	May 22	2019	555	23	1993
End-gate	J. Schaffer and A. Spanier	279,444	June 12	1047	290	23	2310
End-gate	E. H. Seibert	285,848	Oct. 2	86	25	25	17
End-gate	J. H. Werden	277,391	May 8	1084	291	23	1819
End-gate fastening. Wagon	J. Schmitt	288,078	Sept. 18	1135	317	24	1113
End-gate. Wagon	P. Andersen	270,363	Jan. 9	639	189	23	135
End-gate. Wagon	W. Beckwith	286,675	Oct. 16	1127	303	25	220
End-gate. Wagon	J. H. Frazee and G. M. Culver	281,989	July 24	2078	570	24	381
End-gate. Wagon	A. Graham	274,757	Mar. 27	1946	541	23	1193
End-gate. Wagon	T. Hunger and F. Bullenkamp, Jr.	284,653	Sept. 11	853	240	24	1056
End-gate. Wagon	R. M. Kelly	280,187	June 26	1923	541	23	2475
End-gate. Wagon	J. Lutz	277,303	May 8	986	265	23	1802
End-gate. Wagon	J. M. Morris	274,018	Mar. 13	990	271	23	1012
End-gate. Wagon	H. H. Perkins	282,361	July 31	2570	704	24	468
End-gate. Wagon	E. Prescott	277,779	May 15	1549	421	23	1906
End-gate. Wagon	P. Smith	286,647	Oct. 16	1093	294	25	214

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
End-gate. Wagon	J. P. Ware	290,374	Dec. 18	1244	350	25	1122
Endless band-knife	J. A. Kay	286,706	Oct. 16	1169	314	25	227
Endless carrier and elevator	E. W. Ross	278,049	May 22	1873	512	23	1968
Endless-chain carrier and distributer for coal, &c.	J. A. Lesourd and J. Lotan	281,067	July 10	919	257	24	169
Engine:							
See Ammonia-engine.							
Boring-engine.							
Caloric-engine.							
Compound engine.							
Compressing-engine.							
Cylinder-engine.							
Dental engine.							
Dental or surgical engine.							
Direct-acting engine.							
Direct-acting compound engine.							
Duplex engine.							
Electro-magnetic engine.							
Fire-engine.							
Gas-engine.							
Gas-motor engine.							
Gas or vapor engine.							
Hot-air engine.							
Hot-air and gas engine.							
Hydropneumatic engine.							
Locomotive-engine.							
Logging-engine.							
Naphtha-engine.							
Pumping-engine.							
Rag-engine.							
Road-engine.							
Rotary engine.							
Rotary steam-engine.							
Steam-engine.							
Steam and air engine.							
Steam-motor engine.							
Steering-engine.							
Traction-engine.							
Transportable engine.							
Wind-engine.							
Engine	R. M. Fryer	283,704	Aug. 21	1484	418	24	783
Engine	P. F. Goodrich	270,418	Jan. 9	713	211	23	149
Engine-cylinder lubricator	J. A. Wheeler	283,176	Aug. 14	835	233	24	655
Engine-furnace	J. H. Elward	276,372	Apr. 24	1933	536	23	1581
Engine-furnace. Portable	J. H. Elward	276,374	Apr. 24	1937	537	23	1582
Engine-lubricator	W. J. Horn	289,055	Dec. 11	848	241	25	1043
Engine-register	C. Chambers, Jr	288,976	Nov. 27	1490	413	25	791
Engine reversing-gear	G. T. Hatch and F. W. Riesenberg	287,023	Oct. 23	1576	434	25	304
Engine-reversing gear	J. V. Moore	282,753	Aug. 7	337	96	24	559
Engine reversing-gear	F. W. Randall	270,842	Jan. 16	1255	361	23	260
Engine-reversing gear	F. G. Shepard, A. J. Hoag, and A. Thomson.	282,932	Aug. 7	538	152	24	596
Engine running-gear. Suspension-	J. H. Race	289,306	Nov. 27	1882	524	25	863
Engine-slide lubricator	M. S. Cabell	289,066	Nov. 27	1601	443	25	810
Engines. Utilizing the exhaust of	D. Renshaw	274,969	Apr. 3	113	32	23	1244
Engines. Utilizing the exhaust of	D. Renshaw	274,970	Apr. 3	114	32	23	1244
Engines. Utilizing the exhaust of	D. Renshaw	274,971	Apr. 3	115	32	23	1244
Engines. Utilizing the exhaust of	D. Renshaw	274,972	Apr. 3	116	32	23	1245
Engines. Utilizing the exhaust of	D. Renshaw	274,973	Apr. 3	116	33	23	1245
Engraver's tool	W. Brah	271,306	Jan. 30	1825	530	23	370
Engraving	J. Earle	277,412	May 8	1107	297	23	1823
Engraving-machine	S. D. Engle	275,618	Apr. 10	988	267	23	1403
Engraving-machine	R. Friebel	281,484	July 17	1437	393	24	265
Engraving-machine	J. Hope	281,509	July 17	1464	402	24	270
Engraving-machine	M. J. Salm	274,391	Mar. 20	1475	405	23	1104
Engraving-machine	A. F. Skinner	285,695	Sept. 25	1872	533, 534	24	1252
Engraving-machine. Pantograph	J. Hope	281,510	July 17	1465	402, 403	24	270
Engraving. Preparing blocks of wood for	W. Brah	274,556	Mar. 27	1710	.....	23	1150
Ensilage in silos. Method of and device for preserving	S. M. Colcord	280,352	July 3	16	5	24	5
Envelope	P. Busse	271,413	Jan. 30	1969	569	23	396
Envelope	P. L. Cuskley	279,543	June 19	1170	324	23	2336
Envelope	D. Lubin	272,725	Feb. 20	1438	403	23	707
Envelope	L. B. Plimpton	292,920	Aug. 7	526	149	24	594
Envelope	M. H. Watson	276,314	Apr. 24	1850	515	23	1567
Envelope	J. H. Weaver	286,881	Oct. 16	1385	380	25	265
Envelope. Double-address	J. E. Marshall	283,000	Aug. 14	629	178	24	618
Envelope machine	F. H. Richard	284,483	Sept. 4	390	108, 109, 110	24	970
Envelope-machine	W. D. Slater	288,673	Nov. 20	1114	306, 307	25	716
Envelope-moistener	C. S. Watson	289,247	July 31	2422	666	24	443
Envelope or other box	F. W. Field	290,223	Dec. 18	1057	297	25	1090
Envelopes and mechanism therefor. Method of making	C. F. Annan	283,945	Aug. 28	1787	505, 506	24	848
Envelopes, &c. Device for fastening	D. E. Sweet	279,991	June 26	1699	477	23	2435
Envelopes. Machine for making	G. Sickles, Jr	271,282	Jan. 30	1794	521	23	364
Epaulette	H. L. Crane and J. Lines	279,480	June 12	1090	301	23	2315
Erasable register	L. W. Loomis	287,837	Nov. 6	57	17	25	517
Eraser	L. Wolff	286,889	Oct. 16	1396	383	25	267
Eraser. Blackboard-	D. L. Croft	274,566	Mar. 27	1723	479	23	1153
Eraser. Slate and blackboard	M. E. Ingram	287,381	Oct. 23	2024	550	25	386
Escapement	R. J. Clay	286,685	Oct. 16	1143	307, 308	25	223
Escapement and regulator	A. C. Clausen	286,531	Oct. 9	937	252	25	181
Ether. Apparatus for administering	S. Cooper	287,098	Oct. 23	1671	459	25	323
Evaporating apparatus	B. T. Babbitt	286,369	Oct. 9	745	200	25	145
Evaporating apparatus	O. F. Boomer	271,023	Jan. 23	1480	427	23	303
Evaporating apparatus	J. Stuart	289,785	Dec. 4	511	141	25	975
Evaporating liquids	N. Pigeon	290,105	Dec. 11	902	256	25	1053
Evaporating or drying apparatus	A. Gilain	277,704	May 15	1460	394	23	1889
Evaporating-pan	H. O. Ames	276,324	Apr. 24	1880	522	23	1571
Evaporating-pan	J. F. Porter	285,069	Sept. 18	1126	315	24	1111
Evaporating-pan	N. Sanders	281,563	July 17	1526	418, 419	24	280
Evaporating-pan	J. Shoemaker	272,784	Feb. 20	1510	426	23	720
Evaporating-pan	W. B. Seward	290,193	Dec. 11	1005	283	25	1072

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Evaporating-pan	F. P. Taber	277,855	May 15	1637	446	23	1921
Evaporating sirups and viscous substances. Apparatus for	F. B. Nichols	276,192	Apr. 24	1700	470	23	1541
Evaporative cooler	G. W. Deitzler	271,813	Feb. 6	277	76	23	489
Evaporator: *See* Cane-juice evaporator. Fruit-evaporator. Molasses-evaporator. Salt-evaporator. Sorghum-evaporator. Sugar-evaporator.							
Evaporator	J. M. Duncan	284,952	Sept. 11	973	273	24	1077
Evaporator	W. A. Herring	287,026	Oct. 23	1579	435	25	305
Evaporator	J. A. Morrell	281,912	July 24	1989	545	24	365
Evaporator	I. N. Null	269,877	Jan. 2	63	19	23	15
Evaporator	W. H. Reed	280,514	July 3	217	57	24	39
Evaporator	E. Slaght	286,646	Oct. 16	1091	294	25	214
Evaporator	H. E., W., and J. A. Tupper	271,550	Jan. 30	2144	616	23	426
Evaporator	T. W. Weller	287,487	Oct. 30	2161	587	25	420
Evaporator	T. L. West	285,713	Sept. 25	1899	539	24	1256
Evaporator for making sugar from saccharine juices, &c.	O. B. Jennings	287,545	Oct. 30	2232	606	25	435
Excavating and apparatus therefor	F. Brotherhood	285,565	Sept. 25	1713	484	24	1222
Excavating and dredging apparatus	W. Smith	284,503	Sept. 4	422	119, 129	24	975
Excavating and moving dirt, &c. Device for	W. Burket	277,455	May 15	1169	314	23	1840
Excavating and screening sand, &c. Apparatus for	C. A. Carpenter	288,545	Nov. 13	951	261	25	681
Excavating apparatus	T. Dougherty	283,703	Aug. 21	1482	417, 418	24	789
Excavating apparatus	J. M. and L. M. Shute	290,488	Dec. 18	1406	389	25	1150
Excavating apparatus. Odorless	R. A. McCauley	285,288	Sept. 18	1381	390	24	1157
Excavating foundations. Pneumatic apparatus for	M. J. O'Connor	285,834	Oct. 2	63	19, 20	25	13
Excavating-machine	W. S. Morton	287,563	Oct. 30	2253	611, 612	25	439
Excavating-machine	S. F. Welch	289,734	Dec. 4	456	128, 129	25	966
Excavating-machine. Hydraulic	R. Stone	281,415	July 17	1344	371	24	250
Excavating or ditching device for attachment to cars	D. Freel	270,776	Jan. 16	1181	338, 339	23	245
Excavator: *See* Snow-excavator.							
Excavator	D. C. Baldwin	283,951	Aug. 28	1796	508	24	850
Excavator	D. Harper	287,671	Oct. 30	2410	649, 650	25	468
Excavator	V. D. Sinar and J. Dale	278,368	May 29	2313	633	23	2052
Excavator and grader combined	W. C. Harrah	277,027	May 8	649	169	23	1742
Excavator and grapple	W. Burket	283,963	Aug. 28	1807	511	24	832
Excavator and loader	D. I. Calhoun	278,399	May 29	2347	642	23	2058
Excavator and wrecker combined	N. J. Cuyle	281,844	July 24	1906	520, 521	24	351
Excavator. Earth-	C. A. Smith	290,362	Dec. 18	1230	346	25	1120
Exercising and developing the muscles of mankind. Machine for	J. H. Trowbridge	282,589	Aug. 7	139	42	24	525
Exercising apparatus	G. Worthington	277,399	May 8	1093	294	23	1820
Exercising apparatus. Electrical	W. T. McGinnis	281,097	July 10	929	259	24	171
Exercising device for pianists. Finger-	A. G. Gardner	272,951	Feb. 27	1742	467	23	765
Exercising. Striking-bag for	A. R. Rumsey	291,015	Dec. 25	2102	579	25	1275
Exhaust. Regenerating	H. Gruson and R. Handrick	277,271	May 8	946	253, 254	23	1795
Exhaust. Utilizing	D. Renshaw	290,473	Dec. 18	1389	384	25	1147
Exhibiting goods. Hanging device for	B. F. Zahm	280,434	July 3	122	32	24	23
Exhibiting illusions. Apparatus for	J. F. Blake	273,445	Mar. 6	264	71	23	878
Exit. Public-hall	R. C. Webster, Sr	290,951	Dec. 25	2010	554	25	1261
Expanding bolt	J. M. Cornell	282,501	Aug. 7	30	9	24	505
Expanding rose-bit	T. G. Pejton	270,554	Jan. 9	894	259	23	184
Expansible wheel	E. S. Chatfield	269,916	Jan. 2	109	32	23	23
Expansion-bit	G. Nichols	289,126	Nov. 27	1672	464	25	823
Expansion-joint	T. W. Duffy	282,967	Aug. 14	582	165	24	611
Explosions. Composition of matter for preventing the occurrence of	T. Sheehan	274,666	Mar. 27	1843	.....	23	1175
Explosive compound	S. R. Divine	289,756	Dec. 4	481	.....	25	970
Explosive compound	S. R. Divine	289,757	Dec. 4	482	.....	25	970
Explosive compound	S. R. Divine	289,758	Dec. 4	482	.....	25	970
Explosive compound	S. R. Divine	289,759	Dec. 4	483	.....	25	970
Explosive compound	S. R. Divine	289,760	Dec. 4	483	.....	25	971
Explosive compound	S. R. Divine	289,762	Dec. 4	486	.....	25	971
Explosive compound	S. R. Divine	289,763	Dec. 4	486	.....	25	971
Explosive compound	A. Nobel. (Reissue)	10,267	Jan. 9	912	.....	23	187
Explosive compound	H. D. Van Campen	288,516	Nov. 13	921	.....	25	675
Explosive compounds. Composition for preparing	S. R. Divine	289,765	Dec. 4	488	.....	25	971
Explosive compounds. Manufacture of	A. J. Lanfrey	276,833	May 1	387	.....	23	1694
Explosive compounds. Manufacture of	M. E. Sanlaville and R. Laligant	281,565	July 17	1527	.....	24	280
Explosive compounds. Preparing	S. R. Divine	289,755	Dec. 4	480	.....	25	970
Express indicator. Railway-	J. H. Dumont	275,609	Apr. 10	971	264	23	1400
Express-signal	A. Crawford	274,726	Mar. 27	1906	532	23	1186
Extension case or box	W. Reetz	287,473	Oct. 30	2143	582	25	417
Extension-table	G. W. Brenn	290,734	Dec. 25	1742	481	25	1215
Extension-table	J. Clooney	276,159	Apr. 24	1660	458	23	1535
Extension-table	W. J. Devers	283,582	Aug. 21	1346	376	24	755
Extension-table	G. A. Faas	290,180	Dec. 11	989	179, 180	25	1070
Extension-table	C. N. Karstens	286,827	Oct. 16	1318	359	25	254
Extension-table	J. H. King	277,576	May 15	1316	353	23	1863
Extension-table	J. La Dow	279,957	June 26	1663	467	23	2428
Extension-table	A. Patrick	273,884	Mar. 13	834	236	23	945

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Extension-table	C. Robinson	270,128	Jan. 2	353	102, 103	23	72
Extension-table	R. W. Tavener	278,830	June 5	209	62	23	2159
Extracting juices from animal and vegetable substances. Apparatus for	A. Desgoffe and L. A. Di Giorgio	287,010	Oct. 23	1554	428, 429	25	300
Extractor:							
See Bung-extractor. Cartridge-extractor. Cork-extractor. Honey-extractor. Nail-extractor. Pulp-extractor. Shell-extractor. Spike-extractor. Spoke-extractor. Stump-extractor. Sucker-rod extractor.							
Eye-bar	S. M. Wickersham	283,730	Aug. 21	1520	428	24	789
Eye-bars. Manufacture of	J. H. Springer, Sr	270,143	Jan. 2	371	108	23	76
Eye-bars. Manufacture of	C. L. Strobel	277,373	May 8	1064	287	23	1816
Eye-disk. Gelatine	J. C. Wadleigh	273,410	Mar. 6	221	60	23	871
Eye-water	G. W. Scott	284,335	Sept. 4	217	.....	24	941
Eyeglass	G. W. Wells and J. Preux	286,883	Oct. 16	1389	381	25	266
Eyeglass and spectacle case	W. B. White	289,946	Dec. 11	711	201	25	1018
Eyeglass-case	C. H. Manning	272,450	Feb. 20	1090	307	23	645
Eyeglass nose-piece	W. J. Suttie	284,257	Sept. 4	126	25	24	926
Eyeglasses	W. C. Barnes	282,946	Aug. 14	562	159	24	607
Eyeglasses	G. Johnston	271,712	Feb. 6	150	41	23	466
Eyelet-fastening for drawers. Metallic	A. M. Green	280,032	June 26	1760	494	23	2445
Eyelet. Plastic	W. B. Carpenter	271,035	Jan. 23	1492	430	23	305
Eyeleting-machine	A. Eppler, Jr., and E. C. Ray	271,049	Jan. 23	1509	435	23	308
Eyeleting-machine	L. D. Hawkins	272,382	Feb. 13	996	278	23	624
Eyeleting-machine	A. J. Shipley	284,911	Sept. 11	924	260	24	1069
Eyeleting-machine	G. Shipman	288,373	Nov. 13	742	202	25	644
Fabric:							
See Elastic fabric. Flocked fabric. Sheet-metal fabric. Spring fabric.							
Fabric	A. Aronson	281,172	July 10	1024	286	24	188
Fabric. Figured	A. Urbahn	289,562	Dec. 4	266	74	25	934
Fabric for furniture and wall coverings	J. M. Baldwin	288,294	Nov. 13	623	171	25	624
Fabric for lining garments, &c	A. W. Straw	271,539	Jan. 30	2132	613	23	424
Fabric for needle-woven tapestries	C. T. Wheeler	271,174	Jan. 23	1665	479, 480	23	334
Fabric for window-shades, &c	A. L. Jones	283,893	Aug. 28	1721	485	24	835
Fabric straightening and finishing machine	I. E. Palmer	270,835	Jan. 16	1246	359	23	258
Fabrics. Apparatus for stretching	J. G. Lindemann	280,489	July 3	193	51	24	35
Fabrics. Delivery apparatus for machines for finishing	I. E. Palmer	284,323	Sept. 4	203	57	24	938
Fabrics. Finishing woven cotton	F. B. Wilkins	270,868	Jan. 16	1283	.....	23	265
Fabrics. Machine for folding the edges of	J. L. McMillan	278,163	May 22	2014	554	23	1992
Fabrics. Machine for pressing textile	G. W. Miller	285,052	Sept. 18	1107	309	24	1106
Fabrics. Machine for stretching or tentering woven	J. and L. Gourdiat	280,031	June 26	1756	493, 494	23	2445
Fabrics. Machine for trimming	L. Schultz	273,698	Mar. 13	849	230	23	987
Fabrics. Producing open-work	F. Suter	280,094	June 26	1828	514	23	2458
Fabrics. Roller for stretching	J. Hawthorn, J. P. Liddell, and P. Hawthorn.	281,503	July 17	1456	399	24	269
Fabrics. Uniting	S. Arnold	278,484	May 29	2449	668	23	2077
Face-plate for lathes, &c	F. C. Beard	282,038	July 31	2139	587	24	396
Fagot-box	F. E. Perkins	290,264	Dec. 18	1108	310, 311	25	1098
Fall-block hook	L. T. Dickson	271,226	Jan. 30	1727	500	23	353
Falling bodies. Device for retarding the descent of	J. H. Long	285,283	Sept. 18	1376	388	24	1156
Fan	D. S. Cooke	275,804	Apr. 17	1233	337	23	1452
Fan	F. Kinn	278,799	June 5	167	49	23	2151
Fan	A. and W. Seitz	271,528	Jan. 30	2118	609	23	422
Fan	W. C. Spelman	270,611	Jan. 16	970	280	23	206
Fan	S. Van Campen	279,050	June 5	538	147	23	2215
Fan and caster-supporter. Combined table-	J. Hugo	281,513	July 17	1469	403	24	271
Fan attachment	M. Cohen	270,020	Jan. 2	228	66	23	47
Fan attachment	M. B. Crawford and C. E. Temple	272,416	Feb. 20	1051	295	23	638
Fan attachment	P. Hebner	275,208	Apr. 3	422	115	23	1298
Fan attachment for sewing-machines, &c	M. S. Bolt and J. W. Lunn	270,926	Jan. 23	1360	392	23	284
Fan. Automatic	C. H. Blanchard	271,211	Jan. 30	1712	496	23	350
Fan. Automatic	A. M. Richardson	288,119	Nov. 6	406	115	25	579
Fan. Automatic	J. M. Seymour	284,077	Aug. 28	1968	548	24	878
Fan. Exhaust-	W. D. Smith	275,067	Apr. 3	274	75	23	1273
Fan. Exhaust or blower	W. W. Green	272,542	Feb. 20	1205	336	23	665
Fan. Fly-	T. W. Cofer	288,021	Nov. 6	296	83	25	557
Fan. Fly-	F. M. Hunt	278,140	May 22	1988	546	23	1988
Fan. Fly-	L. W. Page	284,224	Sept. 4	88	24	24	919
Fan. Fly-	V. Stirewalt	271,535	Jan. 30	2126	612	23	423
Fan for grain-separators, &c	J. Bachman	270,882	Jan. 23	1305	377	23	275
Fan. Mechanical	E. F. Dénéchaud and J. H. Reynolds	281,035	July 10	859	239	24	159
Fan. Ventilating-	C. Cockson	284,279	Sept. 4	151	42	24	930
Fan-wheel	W. Schmolz	279,603	June 19	1238	343	23	2348
Fanning apparatus	J. Reimers	270,123	Jan. 2	342	100	23	70
Fanning-machine	W. L. Hoover and J. Newcomb	278,795	June 5	161	47	23	2150
Fanning machinery	J. Geier	273,719	Mar. 13	612	164	23	946
Fanning-mill	C. S. Beebe	280,897	July 10	688	194	24	128
Fanning-mill	C. S. Beebe	280,898	July 10	689	194	24	128
Fanning-mill	D. Carpenter	282,050	July 31	2159	592, 593	24	400
Fanning-mill	T. R. Rosier	282,568	Aug. 7	114	34	24	520
Fare-box	F. A. Farrell	270,651	Jan. 16	1022	294	23	216
Fare-box	T. W. Fowler	285,742	Sept. 25	1942	550	24	1263
Fare-box	J. F. Goodridge	272,952	Feb. 27	1743	487	23	766
Fare-box	M. W. Mahar	275,781	Apr. 10	1191	327	23	1437

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fare-box	J. B. Slawson	272,591	Feb. 20	1270	354, 355	23	677
Fare-box. Street-car	J. R. Hare	274,319	Mar. 20	1380	379	23	1086
Fare-collector for passenger-cars	B. G. Fitzhugh	289,341	Nov. 27	1928	535, 536	25	872
Fare-recorder. Conductor's	J. C. Shoup	286,493	Oct. 9	886	240	25	171
Fare-recorders. Dial and reading-disk for	R. M. Rose	281,301	July 17	1200	332	24	226
Fare-register	G. D. Burton	284,375	Sept. 4	261	73	24	948
Fare-register	J. W. Fowler and D. F. Lewis	271,977	Feb. 6	478	130	23	524
Fare-register	J. W. Fowler and D. F. Lewis	273,675	Mar. 6	559	148, 149	23	929
Fare-register	J. Goodfellow	283,706	Aug. 21	1487	419	24	783
Fare-register	L. A. Touchet	278,754	June 5	98	28	23	2140
Fare-register and alarm	W. J. Richardson	276,713	May 1	234	59	23	1664
Fare register and recorder	J. W. Fowler and D. F. Lewis	271,976	Feb. 6	474	129	23	523
Fare register and recorder	R. M. Rose	281,302	July 17	1202	332	24	226
Farm and other gates	C. McMillen	281,544	July 17	1503	413	24	277
Farm-gate	S. Q. Barlow	289,800	Dec. 11	533	149	25	986
Farm-gate	J. R. Denny	289,998	Dec. 11	779	219	25	1030
Farm-gate	C. Hart	276,176	Apr. 24	1679	464	23	1538
Farm-gate	W. B. Miller	286,053	Oct. 2	336	93	25	62
Fastening for bags, pocket-books, &c	J. W. Meaker	276,852	May 1	409	109	23	1698
Fastening for satchels, &c	A. C. Frankel	277,259	May 8	932	250	23	1793
Fastening for straps, &c	R. G. Hanford, Jr	275,203	Apr. 3	417	114	23	1298
Fats and oils. Treating	M. H. Lackersteen	284,662	Sept. 11	863	.....	24	1057
Fat or oxyline. Deodorized	J. Hobbs	289,100	Nov. 27	1642	.....	25	817
Fats. Refining	J. Hobbs	290,822	July 10	604	.....	24	113
Fatty acids and glycerine. Process of and apparatus for decomposing and transforming fatty substances into	W. F. C. M. McCarty	282,547	Aug. 7	85	24	24	515
Fatty acids. Process of and apparatus for treating fats and oils for obtaining	W. F. C. M. McCarty	283,266	Aug. 14	954	266	24	677
Faucet	W. A. Babcock	287,357	Oct. 23	1993	543	25	380
Faucet	W. J Barr and J. L. Nelson	289,373	Dec. 4	4	2	25	887
Faucet	J. L. Berry and S. Gladney	269,912	Jan. 2	105	31	23	22
Faucet	L. Brandeis	288,769	Nov. 20	1238	339	25	737
Faucet	D. A. Brislin	286,256	Oct. 9	584	160	25	117
Faucet	W. Cassin	280,448	July 3	138	37	24	96
Faucet	G. F. Coomber	272,858	Feb. 27	1628	456	23	748
Faucet	W. S. Cooper	280,137	June 26	1873	528	23	2467
Faucet	M. Dinneen	272,536	Feb. 20	1200	335	23	664
Faucet	B. Diierstock	288,781	Nov. 20	1248	343	25	740
Faucet	W. H. Hedges	288,334	Nov. 13	682	188	25	634
Faucet	J. Kaufmann	279,952	June 26	1656	464	23	2427
Faucet	H. H. Liemke	270,819	Jan. 16	1229	355	23	255
Faucet	R. McGregor	270,550	Jan. 9	890	258	23	184
Faucet	R. Robinson	274,385	Mar. 20	1465	402	23	1102
Faucet	J. R. Rueckert and R. A. Hall	288,865	Nov. 20	1349	370	25	758
Faucet	G. Shone	290,124	Dec. 11	931	264	25	1059
Faucet	J. Sommer, Jr	275,727	Apr. 10	1118	306	23	1425
Faucet	J. O. Waddell	270,353	Jan. 9	627	185	23	132
Faucet and barrel-bung	E. T. Murphy	286,954	Oct. 16	1480	406	25	281
Faucet and racking-valve	C. A. Raggio	283,021	Aug. 14	657	185	24	624
Faucet attachment	J. P. Gruber	275,483	Apr. 10	815	220	23	1373
Faucet attachment	T. F. Ungemach and E. Oshe	274,996	Apr. 3	142	40	23	1250
Faucet. Beer-	A. O'Reilly	285,656	Sept. 25	1823	519	24	1243
Faucet. Bottling-	A. Rigny	288,859	Nov. 20	1342	369	25	756
Faucet-coupling	R. P. Barnstead	289,601	Dec. 4	286	80	25	938
Faucet-coupling	W. Newcomb	274,361	Mar. 20	1437	394	23	1097
Faucet. Double-	F. L. Rockwell	284,237	Sept. 4	104	28, 29	24	922
Faucet. Filtering-	J. Aborn	270,881	Jan. 23	1303	377	23	275
Faucet for beer-barrels	N. W. Payne	289,703	Dec. 4	425	119	25	960
Faucet for drawing liquids	F. McCabe	282,206	July 31	2375	653	24	434
Faucet for soda-fountains, &c	S. M. Way	290,823	Dec. 25	1853	512	25	1235
Faucet for soda-water, &c. Dispensing	J. Matthews	289,547	Dec. 4	221	62	25	925
Faucet-joint. Cast	N. Spofford	274,402	Mar. 20	1488	409	23	1106
Faucet. Lock-	J. Sargent	286,077	Oct. 2	366	101	25	67
Faucet. Rotary measuring and self-closing	T. Weaver	272,176	Feb. 13	731	202	23	578
Faucet. Self-acting	A. Prier, C. Doherty, and P. E. Everett.	289,710	Dec. 4	432	121	25	961
Faucet. Self-closing	A. Prier, C. Doherty, and P. E. Everett.	278,597	May 29	2582	705	23	2099
Faucet. Self-closing	T. H. Walker	275,099	Apr. 3	289	79	23	1276
Faucet. Self-closing	R. L. Webb	275,300	Apr. 3	533	145	23	1316
Faucet. Siphon-	N. A. Ellis	273,495	Mar. 6	324	88	23	889
Faucet. Siphon-	N. A. Ellis	283,987	Aug. 28	1837	518	24	857
Faucet. Spring-compression	J. Zane	286,365	Oct. 9	741	198, 199	25	145
Faucet. Water-	J. Graham	272,040	Feb. 13	567	153	23	550
Feather-crushing machine	W. Hammermiller	274,936	Apr. 3	67	18	23	1237
Feather ornaments. Frame for	B. Greig	290,679	Dec. 25	1659	457	25	1199
Feather. Imitation	H. S. Orttlöpp and J. C. Kloberg	282,661	Aug. 7	223	65	24	538
Feather-renovator	J. Baur	287,496	Oct. 30	2172	589	25	421
Feather-renovator	A. G. Bierbach	289,378	Dec. 4	8	3	25	888
Feather-renovator	A. C. Dudley	270,030	Jan. 2	240	70	23	49
Feather-renovator	G. F. Tallman	272,795	Feb. 20	1526	430	23	793
Feather splitting and grinding machine	A. D. Hoffman	279,386	June 12	979	271, 272	23	2298
Feathers and separating the down therefrom. Machine for cleaning	F. Cohnen	270,180	Jan. 2	413	120	23	84
Feathers. Machine for cleaning and sorting	W. Hammermiller	280,371	July 3	39	11	24	9
Feed apparatus for engines. Boiler-	J. A. Ayres	274,102	Mar. 20	1101	304	23	1037
Feed. Automatic boiler-	J. R. Nunns and J. A. Smith	288,591	Nov. 13	1010	278	25	693
Feed-bag	H. Drescher	285,117	Sept. 18	1186	332	24	1121

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Feed-bag	J. W. Gedney	285,252	Sept. 18	1342	378	24	1149
Feed-bag attachment	G. W. Horne	273,842	Mar. 13	780	211	23	976
Feed-bag attachment	J. H. Palmer	289,129	Nov. 27	1676	465	25	824
Feed-bag for horses	J. H. Hey and A. N. Verdin	285,814	Oct. 2	40	13	25	9
Feed. Boiler	W. B. Culver	280,721	July 3	458	131	24	82
Feed-cup	E. J. Thomas	280,532	July 3	236	63	24	42
Feed-cutter	H. A. Buck	279,533	June 19	1161	321	23	2335
Feed-cutter	A. G. Christman	282,052	July 31	2162	593	24	400
Feed-cutter	H. Floyd	288,170	Nov. 6	464	129	25	588
Feed-cutter	W. H. Hunnicutt	270,435	Jan. 9	742	218	23	154
Feed-cutter	M. Klima	279,096	June 5	597	162	23	2225
Feed-drier	E. Roat	275,858	Apr. 17	1297	357	23	1463
Feed-gate. Automatic	D. W. Marmon	281,707	July 24	1723	468	24	318
Feed-gear for animals. Automatic	E. J. B. Whitaker	288,143	Nov. 6	431	121	25	583
Feed-rack	W. W. White	285,716	Sept. 25	1905	541	24	1257
Feed-regulator. Boiler	G. W. Getchell	274,186	Mar. 20	1207	332	23	1057
Feed-trough	J. W. Manning	273,116	Feb. 27	1941	544	23	801
Feed-water alarm-indicator	D. Ellsworth	284,195	Sept. 4	49	14	24	913
Feed-water apparatus. Boiler	J. A. Ayres	274,103	Mar. 20	1103	305	23	1038
Feed-water. Apparatus for removing impurities from	D. D. Wass	272,806	Feb. 20	1541	433	23	726
Feed-water apparatus for steam-boilers	J. S. Clarke	276,354	Apr. 24	1910	530	23	1577
Feed-water for steam-boilers. Air-supply to the	W. L. Fitch	285,884	Oct. 2	134	38	25	26
Feed-water heater	T. R. Butman	281,014	July 10	833	232	24	154
Feed-water heater	G. Cassady	274,561	Mar. 27	1718	477	23	1151
Feed-water heater	G. Cassady	288,206	Nov. 13	516	143	25	606
Feed-water heater	H. G. Eckstein	271,575	Jan. 30	2172	626	23	430
Feed-water heater	J. H. Elward	276,373	Apr. 24	1936	536	23	1582
Feed-water heater	H. Fairbanks	290,015	Dec. 11	803	226	25	1035
Feed-water heater	J. W. Heylmun	272,689	Feb. 20	1392	391	23	698
Feed-water heater	J. J. Hoppes	273,084	Feb. 27	1893	531	23	792
Feed-water heater	J. O. Keleher	288,064	Nov. 6	342	95	25	565
Feed-water heater	J. Keller	282,902	Aug. 7	510	143	24	590
Feed-water heater	J. Park	289,929	Dec. 11	694	194	25	1015
Feed-water heater	R. W. Pelton	270,692	Jan. 16	1076	309	23	225
Feed-water heater	G. W. Sloane. (Reissue)	10,427	Dec. 18	1626	447	25	1187
Feed-water heater	D. C. Stillson	277,075	May 8	717	186	23	1754
Feed-water heater	E. R. Stilwell	278,196	May 22	2060	567	23	2000
Feed-water heater	A. F. Ward	279,848	June 19	1521	425	23	2397
Feed-water heater and feeder	J. Park	275,342	Apr. 3	605	163	23	1328
Feed-water heater and precipitator	D. Bourgeois	271,025	Jan. 23	1482	427	23	303
Feed-water heater and purifier	J. W. Hubber	277,285	May 8	960	258	23	1708
Feed-water heater and purifier	W. S. McKinney	281,775	July 24	1817	496	24	335
Feed-water heater and purifier	G. W. Shamp	283,823	Aug. 28	1640	462	24	821
Feed-water heater and purifier	E. R. Stilwell	274,048	Mar. 13	1020	279	23	1017
Feed-water heater and purifier	W. P. Thompson	282,804	Aug. 7	394	111, 112	24	569
Feed-water heater and smoke-stack combined	J. Armstrong	276,150	Apr. 24	1649	455, 456	23	1533
Feed-water heater for locomotives	H. Heaton	279,383	June 12	975	270	23	2297
Feed-water heater for steam-boilers	E. J. Hall	272,684	Feb. 20	1386	389	23	697
Feed-water heaters. Overflow for	G. A. Otis	278,590	May 29	2570	702	23	2098
Feed-water. Heating	G. L. Tucker	287,982	Nov. 6	244	69	25	550
Feed-water purifier	J. N. Booth	275,980	Apr. 17	1434	396	23	1489
Feed-water purifier	J. T. Mead	276,189	Apr. 24	1696	468	23	1541
Feed-water. Purifying	C. B. Dudley	285,591	Sept. 25	1748	495	24	1229
Feed-water. Purifying	G. S. Strong	273,778	Mar. 13	705	190	23	963
Feed-water regulator	J. Ball	278,077	May 22	1901	521	23	1973
Feed-water regulator	J. S. Clarke	276,355	Apr. 24	1912	530	23	1577
Feed-water regulator	D. Edwards	278,112	May 22	1946	533, 534	23	1981
Feed-water regulator	A. E. Osborn	290,100	Dec. 11	897	255	25	1052
Feed-water regulator	G. C. Pyle	279,014	June 5	491	133	23	2207
Feed-water regulator for steam-boilers	G. P. Salisbury and C. W. Foster	284,762	Sept. 11	747	207	24	1037
Feed-water regulator. Balanced	J. Woodruff	273,929	Mar. 13	888	243	23	994
Feeder. Automatic boiler	T. W. Mather	272,730	Feb. 20	1444	405	23	708
Feeder. Automatic stock	J. P. Milbourne	285,295	Sept. 18	1389	392	24	1158
Feeder. Boiler	B. T. Babbitt	269,993	Jan. 2	201	58	23	42
Feeder. Boiler	J. S. Du Bois	280,364	July 3	30	8	24	7
Feeder. Boiler	W. H. H. Knowlton and P. Sage	281,702	July 24	1717	467	24	317
Feeder. Boiler	R. Lauckner	281,380	July 17	1298	359	24	242
Feeder. Boiler	J. H. Phillips	289,704	Dec. 4	426	119	25	960
Feeder. Boiler	G. Westinghouse, Jr	290,507	Dec. 18	1438	397	25	1155
Feeder for steam-boilers. Water	H. Sullings	279,458	June 12	1061	294	23	2312
Feeder. Stock	C. Mendenhall	280,208	June 26	1951	548	23	2480
Feeder. Stock	M. L. Tolbert	284,091	Aug. 28	1984	553	24	881
Feeding apparatus. Automatic	H. W. Rose	280,084	June 26	1820	512	23	2456
Feeding apparatus. Boiler	J. A. Ayres	274,104	Mar. 20	1105	305	23	1038
Feeding calves. Apparatus for	C. W. Reed	274,379	Mar. 20	1458	400	23	1101
Feeding device for horses	T. L. Brooks	289,214	Nov. 27	1778	492	25	842
Feeding device. Salt	J. Goldstein	281,993	July 24	2081	571	24	381
Feeding device. Sheep	A. and H. L. Hester	284,301	Sept. 4	179	51	24	934
Felly-jointing machine	L. D. Bullock	286,586	Oct. 16	1012	273, 274	25	200
Felly-plate	P. W. McGuire	285,290	Sept. 18	1384	391	24	1158
Felly-tightener	A. Galbraith	270,413	Jan. 9	707	209	23	148
Felt articles. Mold for making	S. G. Alexander	281,329	July 17	1240	344	24	232
Felt covering. Hair	H. W. Miller, Jr	290,456	Dec. 18	1366	377	25	1142
Felt. Method of and apparatus for finishing	J. H. Neave	271,351	Jan. 30	1893	548	23	381
Felt upper for shoes or slippers	N. Moulton	275,250	Apr. 3	466	130	23	1306
Felt uppers for shoes or slippers. Making	N. Moulton	275,249	Apr. 3	466	130	23	1306
Felted and textile fabrics. Producing compound	J. Offermann and T. Jugler	288,726	Nov. 20	1189	325	25	728
Felted slugs. Manufacturing	B. Haviland and G. P. Gunn	290,230	Dec. 18	1063	298	25	1091

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Felting-machine	W. Keenan	279,393	June 12	989	275	23	2300
Felting-machine	A. B. Waring	288,747	Nov. 20	1214	332	25	733
Fence	W. F. Ash	279,073	June 5	564	155	23	2220
Fence	M. Bailey	273,435	Mar. 6	252	68	23	877
Fence	L. D. Cather	285,570	Sept. 25	1718	486	24	1223
Fence	D. A. Cease	275,884	Apr. 17	1330	366	23	1470
Fence	C. C. Coe	275,591	Apr. 10	940	256	23	1395
Fence	F. M. Comstock and G. Q. Adams	286,785	Oct. 16	1265	342	25	244
Fence	J. H. Cunningham and N. M. Dickerson.	286,182	Oct. 9	495	137	25	102
Fence	M. Dagger	275,891	Apr. 17	1336	368	23	1471
Fence	W. C. Gholson	274,118	Mar. 20	1127	311	23	1042
Fence	J. Gier	276,679	May 1	187	48	23	1656
Fence	C. Hanika	287,828	Nov. 6	47	14	25	516
Fence	T. K. Hansberry	290,578	Dec. 18	1530	421	25	1171
Fence	J. Hollister	283,606	Aug. 21	1368	382	24	760
Fence	G. S. Hosmer	283,486	Aug. 21	1237	347	24	735
Fence	J. B. Hungerford	284,207	Sept. 4	64	18	24	915
Fence	J. A. Jarratt	285,272	Sept. 18	1364	385	24	1154
Fence	L. P. Judson. (Reissue)	10,313	Apr. 10	1221	334	23	1442
Fence	D. S. Morrison	271,730	Feb. 6	172	47	23	470
Fence	J. Newton	285,427	Sept. 25	1557	438	24	1193
Fence	A. I. Osborn	284,656	Sept. 11	606	171	24	1013
Fence	D. Overhuls	286,057	Oct. 2	341	95	25	63
Fence	J. H. Pearson	275,940	Apr. 17	1391	383	23	1481
Fence	B. F. Perry	286,956	Oct. 16	1482	407	25	281
Fence	J. W. Read	285,677	Sept. 25	1847	528	24	1247
Fence	D. Reniker	277,930	May 22	1730	472	23	1943
Fence	J. W. Rigg	286,487	Oct. 9	880	238	25	170
Fence	M. N. Sevier	277,357	May 8	1049	282	23	1813
Fence	S. B. Smith	269,892	Jan. 2	83	25	23	18
Fence	J. L. Sullivan	271,665	Feb. 6	95	25	23	456
Fence	R. E. and W. A. Taylor	276,095	Apr. 17	1578	435	23	1513
Fence	G. M. Wadsworth	289,189	Nov. 27	1748	486	25	837
Fence	G. Watt	286,750	Oct. 16	1222	330	25	236
Fence	S. Williams	283,182	Aug. 14	846	237	24	657
Fence	J. Yeiter	277,821	May 15	1593	436	23	1913
Fence and telegraph post. Iron	L. Petrequin	273,887	Mar. 13	837	227	23	985
Fence-barb	J. B. Oliver	286,147	Oct. 2	448	122	25	83
Fence-barb and barbed wire	G. C. Baker	273,219	Feb. 27	2070	582	23	894
Fence-barbs. Device for making	C. B. Brainard	283,561	Aug. 21	1319	368 369	24	750
Fence. Barbed	J. W. Childs	285,229	Sept. 18	1316	371	24	1144
Fence. Barbed	J. Goss	282,453	July 31	2688	738	24	489
Fence. Barbed	J. W. Nadelhoffer	270,098	Jan. 2	311	92	23	63
Fence. Barbed	O. O. Phillips	280,857	July 10	643	181	24	120
Fence. Barbed	W. S. Roberts	276,883	May 1	449	120	23	1705
Fence. Barbed-wire	G. C. Bigelow	278,389	May 29	2337	639	23	2057
Fence. Barbed-wire	J. E. Evans	287,261	Oct. 23	1876	514	25	359
Fence. Barbed-wire	A. Gunderson	286,130	Oct. 2	430	117	25	60
Fence. Barbed-wire	M. Kelly	283,614	Aug. 21	1377	385	24	761
Fence. Barbed-wire	C. A. Mann	276,439	Apr. 24	2014	539	23	1595
Fence. Barbed-wire	O. M. Pond	270,116	Jan. 2	332	97	23	67
Fence. Barbed-wire	A. J. Upham	284,261	Sept. 4	130	36	24	927
Fence. Combined wire and picket	M. H. Brown and C. F. Hyde	277,877	May 22	1671	456	23	1933
Fence. Earthen	A. Delffs	277,687	May 15	1443	389	23	1886
Fence. Farm and flood	A. L. Cottrel	290,403	Dec. 18	1281	360	25	1129
Fence. Flood	H. D. Merrill	289,682	Dec. 4	383	110	25	954
Fence. Flood	P. Roush and C. P. Tener	275,713	Apr. 10	1099	300	23	1422
Fence. Flood	M. M. Withrow	284,528	Sept. 4	451	128	24	981
Fence. Flood and suspension	J. W. Power	276,073	Apr. 17	1546	425	23	1507
Fence. Girder picket	F. Tunica	284,687	Sept. 11	650	183	24	1020
Fence. Hedge	W. Young	275,317	Apr. 3	554	151	23	1320
Fence. Iron	B. G. Devoe	271,190	Jan. 23	1692	489	23	337
Fence. Iron	H. L. Jones	281,077	July 10	910	254	24	168
Fence-lock	B. A. Welds	286,752	Oct. 16	1225	331	25	227
Fence-loom	D. E. Merrick and G. Q. Adams	270,456	Jan. 9	763	224	23	158
Fence machine. Barb-wire	T. W. Eaton and F. H. Prince	275,810	Apr. 17	1240	341	23	1453
Fence machine. Wire	J. Ash and J. Fisk	288,913	Nov. 20	1408	388	25	769
Fence-making machine	F. M. Comstock	284,385	Sept. 4	278	77, 78	24	951
Fence-making machine	W. H. Vaughn	271,165	Jan. 23	1650	474 475	23	331
Fence-making machinery	R. E. and J. B. Morris	290,699	Dec. 25	1687	464 465	25	1204
Fence material. Barbed	W. S. Bate	273,245	Mar. 6	3	1	23	835
Fence. Metallic	C. Hanika	280,253	Nov. 27	1818	502	25	851
Fence. Metallic	J. M. Reid	274,820	Mar. 27	2030	562	23	1206
Fence. Metallic	C. H. Salisbury	272,482	Feb. 20	1133	318	23	653
Fence nail. Wire	F. W. Bates	280,118	June 26	1853	522	23	2463
Fence nail. Wire	W. M. Clow	279,113	June 5	633	172	23	2231
Fence. Picket	M. S. Chapman	274,173	Mar. 20	1195	329	23	1055
Fence. Picket	E. F. Shellaberger	284,337	Sept. 4	218	61	24	941
Fence. Picket	W. Thomas	284,695	Sept. 11	648	183	24	1020
Fence-picket	F. M. Comstock and G. Q. Adams	286,392	Oct. 9	773	209	25	150
Fence-pickets. Machine for pointing	O. Schmachtenberger	273,614	Mar. 6	480	129	23	916
Fence. Plashed	W. Baldwin	274,895	Apr. 3	6	2	23	1228
Fence. Portable	E. H. Alden	273,001	Feb. 27	1797	503	23	776
Fence. Portable	S. Beckey	286,522	Oct. 9	926	250	25	178
Fence. Portable	J. H. Cox	281,028	July 10	851	236	24	157
Fence. Portable	J. Eastwood	271,322	Jan. 30	1849	536	23	373
Fence. Portable	S. W. Fish	285,882	Oct. 2	132	38	25	26
Fence. Portable	J. Johnson	283,114	Aug. 14	767	216	24	643
Fence. Portable	P. Toman	274,532	Mar. 27	1684	467	23	1146

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Sec.	Drg.	Vol.	Page.
Fence-post	A. A. Arthur, E. F. Spaulding, and W. Davison.	277,657	May 15	1409	380	23	1880
Fence-post	A. A. Arthur, E. F. Spaulding, and W. Davison.	277,658	May 15	1410	380	23	1880
Fence-post	J. W. Barton	270,370	Jan. 9	655	192	23	137
Fence-post	S. Beckwith	282,039	July 31	2140	587	24	397
Fence-post	W. P. Brooks	284,806	Sept. 11	799	223	24	1045
Fence-post	F. Brown	275,131	Apr. 3	334	92	23	1283
Fence-post	C. D. Freeland and J. A. Wharry	280,302	June 26	2076	584	23	2502
Fence-post	C. J. Gorla	277,708	May 15	1465	395	23	1890
Fence-post	C. J. Gorla	287,923	Nov. 6	168	48	25	537
Fence-post	S. E. Hyndman	289,349	Nov. 27	1937	538	25	873
Fence-post	J. Johnson	286,017	Oct. 2	291	82	25	55
Fence-post	J. H. and A. Kreidler	287,944	Nov. 6	146	57	25	541
Fence-post	E. T. Likes, H. B. Hedge, and G. C. Baker.	277,493	May 15	1215	326	23	1848
Fence-post	P. and O. H. McOmber	286,461	Oct. 9	851	231	25	165
Fence-post	P. Riley, Sr	272,157	Feb. 13	712	195	23	575
Fence-post	E. Rutz	279,440	June 12	1044	289	23	2309
Fence-post	P. Schwartz	287,871	Nov. 6	101	30	25	525
Fence-post	D. Schwelkhard	270,609	Jan. 16	969	280	23	206
Fence-post	G. Swingle, 4th	275,286	Apr. 3	513	141	23	1314
Fence-post	J. W. Walters	286,978	Oct. 16	1512	415	25	286
Fence-post	S. E. Young and E. F. Pugsley	273,334	Mar. 6	121	35	23	854
Fence-post. Iron	R. J. Carson	281,019	July 10	839	233	24	155
Fence-post. Iron	J. S. Fox	269,844	Jan. 2	31	10	23	8
Fence-post. Iron or steel	R. J. Carson	278,220	May 22	2091	575	23	2005
Fence-post. Metallic	G. S. Curtis	278,779	June 5	143	42	23	2146
Fence-post. Metallic	D. B. Oliver	280,505	July 3	209	55	24	38
Fence-post. Metallic	D. B. Oliver	281,717	July 24	1733	471	24	320
Fence-post. Metallic	D. B. Oliver. (Reissue)	10,366	Aug. 14	1087	305	24	702
Fence-post. Metallic	D. B. Scott	289,149	Nov. 27	1697	471	25	827
Fence-post socket	G. T. Clark	275,801	Apr. 17	1230	337	23	1452
Fence-posts. Anchoring-socket for	S. D. Mehew	284,219	Sept. 4	81	23	24	918
Fence-posts. Barbed-wire fastening for iron	J. S. Fox	269,845	Jan. 2	32	10	23	8
Fence-posts. Machine for bending sheet-metal	T. R. Morgan, Sr	283,269	Aug. 14	958	267	24	678
Fence-posts. Machine for driving	H. and B. Dixon	281,848	July 24	1911	522	24	352
Fence-rails. Manufacture of barbed	W. J. Lewis	278,714	June 5	50	15	23	2133
Fence stay or brace	W. W. Worcester	275,007	Apr. 3	163	43	23	1254
Fence support and guard. Wire	T. H. Dodge	275,607	Apr. 10	968	263	23	1400
Fence. Wire	C. H. Barr	289,207	Nov. 27	1771	491	25	841
Fence. Wire	C. W. Bethea	289,803	Dec. 11	537	150	25	987
Fence. Wire	L. Dow. (Reissue)	10,362	Aug. 7	554	156	24	599
Fence. Wire	J. C. Ford	287,372	Oct. 23	2014	548	25	384
Fence. Wire	C. A. Mann	284,218	Sept. 4	80	22	24	918
Fence. Wire	J. Stubbe	287,337	Oct. 23	1970	538	25	377
Fence. Wire	L. and M. Taylor	278,291	May 22	2185	601	23	2021
Fence-wire. Apparatus for making barbed	W. Wilson, Jr	289,950	Dec. 11	715	202	25	1019
Fence-wire. Apparatus for reeling and unreeling barbed	A. Gunderson	283,884	Aug. 28	1710	482	24	833
Fence-wire. Barbed	C. B. Brainard	287,091	Oct. 23	1663	456	25	321
Fence-wire. Barbed	O. P. Briggs	272,407	Feb. 20	1039	291	23	637
Fence-wire. Barbed	J. B. Cline	290,974	Dec. 25	2053	565	25	1267
Fence-wire. Barbed	W. M. Clow	285,014	Sept. 18	1060	296	24	1100
Fence-wire. Barbed	W. M. Clow	287,803	Nov. 6	17	6	25	510
Fence-wire. Barbed	H. A. Devendorf	272,534	Feb. 20	1198	334	23	664
Fence-wire. Barbed	W. Edenborn and G. Griesche	271,693	Feb. 6	129	35	23	462
Fence-wire. Barbed	W. V. Kay	286,987	Oct. 16	1522	419	25	288
Fence-wire. Barbed	E. S. Lenox	272,563	Feb. 20	1243	346	23	672
Fence-wire. Barbed	P. Miles	277,916	May 22	1711	468	23	1940
Fence-wire. Barbed	H. B. Scutt	287,059	Oct. 23	1630	446	25	313
Fence-wire. Barbed	A. W. Sproule	275,536	Apr. 10	878	237	23	1384
Fence-wire. Barbed	T. A. Weber	286,512	Oct. 9	914	246	25	176
Fence-wire. Machine for attaching wire barbs to	T. McCosh	290,595	Dec. 18	1546	426 427	25	1174
Fence-wire. Machine for barbing	A. Jorgensen	280,629	July 3	348	97	24	61
Fence-wire. Machine for making barbed	F. H. Treat	276,505	Apr. 24	2096	582	23	1610
Fence-wire. Machine for making barbed	T. A. Weber	286,511	Oct. 9	910	246	25	175
Fence-wire. Machine for manufacturing barbed	D. C. Stover	278,624	May 29	2619	715 716	23	2106
Fence-wire. Machine for spooling barbed	D. G. Wells	288,530	Nov. 13	936	255	25	678
Fence-wire. Machine for twisting barbed	S. M. Stevens	272,095	Feb. 13	635	173	23	561
Fence-wire. Making barbed	W. Hewitt	276,039	Apr. 17	1510	416	23	1501
Fence-wire. Making barbed	C. D. Rogers	290,272	Dec. 18	1117	314	25	1099
Fence-wire. Ornamental	W. R. Reynolds	287,391	Oct. 23	2035	552	25	388
Fence-wire with spur attachment	C. F. Hyde	277,288	May 8	966	259	23	1799
Fence-wires. Apparatus for attaching barbs to	C. D. Randel and W. Brockner	286,636	Oct. 16	1079	291	25	212
Fence-wires. Machine for applying barbs to	J. B. Cline	279,339	June 12	909	254 255	23	2287
Fences. Combined wires for wire	P. Miles	277,917	May 22	1712	468	23	1940
Fences. Device for cresting	A. Hotchkiss	282,895	Aug. 7	504	141	24	589
Fences. Electrical device for protecting wire	C. A. Brainerd	279,322	June 12	885	246	23	2283
Fences. Erecting wire	J. and W. M. Brinkerhoff	287,222	Oct. 23	1830	501	25	351
Fences. Implement for wiring hedge	W. Young	287,077	Oct. 23	1644	451	25	317
Fences. Machine for the manufacture of	J. Zengel	289,490	Dec. 4	149	41	25	912
Fences. Wire lock for	J. W. Page	285,660	Sept. 25	1828	521	24	1244
Fencing. Barbed metal-strip	A. J. Upham	272,923	Feb. 27	1710	478	23	761
Fencing. Barbed-metal-strip	A. J. Upham	280,100	June 26	1835	517	23	2459
Fencing. Barbed-wire	K. L. Shellaberger	272,091	Feb. 13	630	171	23	561
Fencing-clasp	J. D. Curtis	284,390	Sept. 4	284	79	24	952
Fencing. Machine for manufacturing barbed	R. Ellwood and A. J. Upham	278,523	May 29	2498	682 683	23	2086
Fencing. Manufacture of barbed metallic	T. V. Allis	272,934	Feb. 27	1723	481	23	763
Fencing. Manufacture of barbed metallic	T. V. Allis	272,935	Feb. 27	1725	482	23	763

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fencing. Metallic barbed	T. V. Allis	272,936	Feb. 27	1726	482	23	763
Fencing. Metallic-strip blank for barbed	T. V. Allis	272,933	Feb. 27	1723	481	23	763
Fencing. Support and guard for	T. H. Dodge	285,979	Oct. 2	249	71	25	48
Fender: *See* Breast-strap fender. Furniture-fender. Car-fender. Plow-fender. Cotton, corn, and tobacco fender.							
Fermenting liquor. Apparatus for and process of cooling and condensing the foam of	C. A. Maus	280,385	July 3	55	15	24	12
Fermented liquors. Method of and apparatus for manufacturing	E. Schmitt	277,065	May 8	701	182	23	1752
Fermenting and clarifying beer, wine, &c. Apparatus for	J. Sargent	276,635	May 1	112	30	23	1646
Fermenting-casks. Ventilating-valve for	H. Guth	275,764	Apr. 10	1175	322	23	1435
Fermenting-vessels. Apparatus for regulating the pressure in a series of	J. M. Pfaudler. (Reissue)	10,284	Feb. 6	531	{142 143	23	532
Ferro-phosphorus. Production of	J. Reese	282,118	July 31	2261	.....	24	415
Ferrule for canes, &c	C. Degenhart	281,245	July 17	1134	312	24	214
Ferrule for handles	J. Barker	277,404	May 8	1099	295	23	1821
Ferrule-shaping machine	H. O. Lothrop	290,250	Dec. 18	1084	303	25	1085
Fertilizer	J. B. Beck	285,555	Sept. 25	1703	.....	24	1290
Fertilizer	W. J. Courts	281,840	July 24	1898	.....	24	350
Fertilizer	J. Gould	277,023	May 8	646	.....	23	1742
Fertilizer	T. Wells	283,308	Aug. 14	1001	.....	24	687
Fertilizer	W. R. Wilkinson	290,829	Dec. 25	1859	.....	25	1236
Fertilizer	J. R. Young, Jr	278,383	May 29	2331	.....	23	2056
Fertilizer	J. R. Young, Jr	278,384	May 29	2331	.....	23	2056
Fertilizer	J. R. Young, Jr	278,480	May 29	2446	.....	23	2076
Fertilizer-distributer	J. W. Alverson	273,002	Feb. 27	1798	503	23	776
Fertflizer-distributer	J. R. Anthony	278,483	May 29	2449	668	23	2077
Fertilizer-distributer	A. Cunningham and H. Bickford	286,910	Oct. 16	1425	{391 392	25	271
Fertilizer-distributer	D. Dillon	284,189	Sept. 4	37	10	24	911
Fertilizer-distributer	T. D. Gere	271,833	Feb. 6	300	82	23	494
Fertilizer-distributer	A. Glisson	278,126	May 22	1971	541	23	1985
Fertilizer-distributer	L. Heath	285,483	Sept. 25	1618	454	24	1204
Fertilizer-distributer	J. P. Johnston	280,932	July 10	741	{206 207	24	136
Fertilizer-distributer	G. R. Lewis	272,716	Feb. 20	1424	399	23	704
Fertilizer-distributer	C. E. Patric	273,883	Mar. 13	833	226	23	985
Fertilizer-distributer	J. S. Peironnet	271,912	Feb. 6	396	108	23	510
Fertilizer-distributer	W. C. Stick	281,317	July 17	1226	339	24	229
Fertilizer-distributer	J. W. Thomas and J. D. Otstot	279,044	June 5	528	144	23	2213
Fertilizer-distributer	E. H. Wistance	286,361	Oct. 9	736	197	25	144
Fertilizer-distributer and grain-drill	A. C. Hendricks	272,546	Feb. 20	1208	337	23	666
Fertilizer-distributer and seeder. Combined	F. M. King	284,562	Sept. 4	467	137	24	987
Fertilizer-distributer. Force-feed	C. D. Aumock	270,198	Jan. 9	438	129	23	97
Fertilizer-distributer. Force-feed	C. F. Johnson	285,413	Sept. 25	1537	434	24	1190
Fertilizer for tobacco crops	A. Edwards	290,633	Dec. 18	1600	.....	25	1182
Fertilizers. Apparatus for desiccating	H. Breer	288,919	Nov. 20	1414	390	25	771
Fertilizers. Apparatus for desiccating animal matter for	H. Breer	274,902	Apr. 3	13	4	23	1229
Fertilizers. Apparatus for treating animal matter for	H. Breer	274,901	Apr. 3	12	3	23	1228
Fertilizer-distributing attachment for rollers	S. C. Meddick	284,461	Sept. 4	367	102	24	966
Fertilizers. Apparatus for desiccating animal matter for	H. Breer	280,790	July 10	572	159	24	107
Fertilizers from basic iron slag. Obtaining phosphatic	C. Scheibler	279,445	June 12	1048	.....	23	2310
Fertilizers from offal, &c. Apparatus for the manufacture of	J. N. B. Bond	270,003	Jan. 2	211	61	23	43
Fertilizers. Machine for mixing and grinding	W. H. Mercer	286,463	Oct. 9	853	232	25	166
Fertilizers. Manufacture of	C. J. F. R. de J. Menard and H. J. E. Hennebutte.	280,320	June 26	2096	.....	23	2506
Fertilizers. Manufacturing artificial	E. A. Scribner	283,426	Aug. 21	1164	.....	24	721
Fertilizers. Manufacturing artificial	E. A. Scribner	283,427	Aug. 21	1165	.....	24	722
Fertilizers. Packing and shipping	A. Edwards	287,526	Oct. 30	2206	599	25	429
Fertilizers. Process of and apparatus for manufacturing	P. Hogan	281,693	July 24	1705	464	24	315
Fetter. Horse and cattle	J. C. McCollum	283,503	Aug. 21	1256	352	24	738
Fiber and for other purposes. Machine for obtaining	J. Kennedy	275,920	Apr. 17	1368	377	23	1476
Fiber-cutting machine	E. W. Ross	287,392	Oct. 23	2036	{553 554	25	388
Fiber for cordage, textile fabrics, &c	G. L. Washington	272,361	Feb. 13	960	.....	23	618
Fiber for spinning, paper-making, &c. Treating certain vegetable fibrous substances for the production of	J. A. Graham	280,171	June 26	1907	.....	23	2472
Fiber-washing machine	J., C., L., and M. Jefferson	286,305	Oct. 9	666	{177 178	25	131
Fiber, wool, &c. Process of and machine for separating	W. S. Archer	283,846	Aug. 28	1666	470	24	896
Fibers of fiber-bearing leaves and plants. Machinery and apparatus for scutching or separating, washing, drying, and bleaching the	H. C. Smith	282,788	Aug. 7	375	106	24	566
Fibers of jute and cotton plants. Method of and apparatus for extracting	T. J. Spear	275,953	Apr. 17	1403	387	23	1483
Fibers, &c. Machine for obtaining	S. P. Smith	276,915	May 1	486	128	23	1711
Fibers, &c. Machine for obtaining or treating	G. Sanford and S. P. Smith	280,671	July 3	400	111	24	71
Fibers. Treating the plant genista to obtain	F. Globotschnig	284,291	Sept. 4	164	.....	24	932
Fibrous and other substances. Machine for obtaining and treating	S. P. Smith	280,968	July 10	781	216	24	143
Fibrous product of bamboo	W. H. Perrine	283,510	Aug. 21	1261	.....	24	739
Fibrous substances. Machinery for decorticating	P. De Puydt	289,999	Dec. 11	780	{219 290	25	1031

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Fife	W. Lang	274,617	Mar. 27	1785	496	23	1164
Fifth-wheel	F. P. Bates	285,554	Sept. 25	1702	480	24	1220
Fifth-wheel	S. H. Clark and J. G. Parsons	280,350	July 3	13	4	24	4
Fifth-wheel	T. Evans	289,767	Dec. 4	489	136	25	971
Fifth-wheel	L. D. Haskell, Jr	288,799	Nov. 20	1273	349	25	744
Fifth-wheel	V. Jeffries	275,495	Apr. 10	628	224	23	1376
Fifth-wheel	J. B. Merriam	286,464	Oct. 9	854	232	25	166
Fifth-wheel	G. P. Merrill	290,907	Dec. 25	1952	538	25	1252
Fifth-wheel	W. H. Miller	275,688	Apr. 10	1071	292	23	1417
Fifth-wheel	H. C. Ohlsen	283,139	Aug. 14	790	221	24	647
Fifth-wheel	W. C. Shipherd	281,307	July 17	1209	335	24	227
Fifth-wheel plate	C. T. Gandy	281,357	July 17	1274	354	24	238
Fifth-wheel. Vehicle	J. Allen	273,427	Mar. 6	239	64	23	875
Fifth-wheel. Vehicle	C. Comstock	279,711	June 19	1363	380	23	2370
Fifth-wheel. Vehicle	W. W. Grier	288,997	Nov. 27	1511	418	25	795
Fifth-wheel. Vehicle	C. Falleson and J. M. Jensen	278,786	June 5	150	44	23	2148
Fifth-wheel. Vehicle	J. S. Klapperich	287,550	Oct. 30	2240	608	25	436
Fifth-wheels. Die and blank for the manufacture of	F. P. Bates	287,407	Oct. 30	2062	560	25	400
File	J. D. Crosthwaite	273,821	Mar. 13	757	205	23	972
File	M. A. Howell, Jr	273,537	Mar. 6	380	101	23	899
File	W. Huger	274,775	Mar. 27	1970	548	23	1197
File	H. B. Thayer and T. G. Wright	283,832	Aug. 28	1650	465	24	823
File and binder. Newspaper	H. S. Williams	274,430	Mar. 20	1523	418	23	1112
File and other tools having tapering tangs	J. F. French	285,989	Oct. 2	258	73	25	49
File. Bill-	M. J. David	274,729	Mar. 27	1908	533	23	1187
File. Bill-	M. J. David	275,602	Apr. 10	959	260	23	1399
File. Bill-	A. Henderson	281,062	July 10	889	247	24	164
File. Bill-	I. S. Smith	277,170	May 8	838	221	23	1775
File. Bill-	P. J. Wicks	274,688	Mar. 27	1867	520	23	1179
File, &c. Bill and letter	J. Smith	280,683	July 3	413	115	24	73
File. Bill or letter	J. M. Keep	279,170	June 12	706	192	23	2253
File-blanks. Machine for and method of cutting teeth upon	W. T. Nicholson	278,169	May 22	2024	556	23	1994
File-blanks. Machine for grinding and dressing	A. Weed	287,746	Oct. 30	2511	677	25	487
File-blanks. Machine for stripping	A. Weed	287,072	Oct. 23	1638	450	25	316
File-box	W. H. Tucker	290,498	Dec. 18	1421	{393 394	{25	1152
File-box	M. J. Wine	290,615	Dec. 18	1576	433	25	1179
File-box	M. J. Wine	290,616	Dec. 18	1577	{433 434	{25	1179
File-case	J. S. Gheen	290,570	Dec. 18	1522	419	25	1170
File-case	A. W. Voltz	289,042	Nov. 27	1572	434	25	805
File-case. Court	A. L. Ringo	274,384	Mar. 20	1464	401	23	1102
File case. Metallic bill-	J. C. Lang. (Reissue)	10,309	Apr. 10	1212	332	23	1441
File-cutting machine	H. F. W. Liebmann	271,483	Jan. 30	2067	595	23	413
File-cutting machine	W. McClellan	276,698	May 1	208	53	23	1660
File for invoices, letters, bonds, &c	E. D. Averell	273,797	Mar. 13	724	196	23	967
File-handle	J. F. French	281,626	July 17	1611	440	24	294
File-handle	G. W. Hill	275,911	Apr. 17	1358	374	23	1474
File-holder	P. M. May	282,742	Aug. 7	327	93	24	557
File-holder	E. T. Pearson	282,360	July 31	2569	704	24	468
File-holder or temporary binder	J. S. Blankman	284,534	Sept. 4	459	130	24	962
File holder. Paper-	W. W. Gilman	283,596	Aug. 21	1359	379	24	758
File holder. Paper-	W. Hubbard	272,260	Feb. 13	838	234	23	598
File holders. Support for bill-	W. H. Tucker	290,497	Dec. 18	1419	{392 393	{25	1152
File. Letter-	G. V. Nauerth	271,258	Jan. 30	1765	512	23	359
File. Letter-	G. E. Shepard	286,233	Oct. 9	551	151	25	111
File. Letter and invoice	W. A. Cooke, Jr	282,275	July 31	2453	675	24	448
File. Paper-	J. Brady	284,370	Sept. 4	256	71	24	948
File. Paper-	C. A. Davis	281,466	July 17	1412	388	24	261
File. Paper-	H. J. Hoffman	274,604	Mar. 27	1772	491	23	1162
File. Paper-	F. Schmitz and J. Mills	283,667	Aug. 21	1437	402	24	773
File. Paper-	J. S. Shannon	274,832	Mar. 27	2032	566	23	1208
Files. Manufacture of	M. A. Howell, Jr	273,536	Mar. 6	378	.....	23	899
Files or other cutting-tools. Flask for carbureting	M. A. Howell, Jr	283,396	Aug. 21	1123	317	24	715
Filing-machine. Rotary	D. H. Stephens	279,108	June 5	625	170	23	2229
Filing the teeth of rotary cutters. Machine for	J. Berry	281,960	July 24	2046	{560 561	{24	375
Filling-can	M. H. Garland	284,408	Sept. 4	305	85	24	955
Filter	W. M. Blackmer	281,336	July 17	1246	345	24	233
Filter	W. J. Burgess	285,965	Oct. 2	235	66	25	45
Filter	J. W. Callard	281,177	July 10	1039	288	24	190
Filter	J. A. Crocker	279,226	June 12	762	211	23	2263
Filter	J. S. Detrick	290,000	Dec. 11	783	221	25	1031
Filter	W. H. Harris	290,046	Dec. 11	839	{237 238	{25	1041
Filter	E. K. Haynes	276,179	Apr. 24	1683	465	23	1539
Filter	E. K. Haynes	282,313	July 31	2500	687	24	456
Filter	J. Howes	276,820	May 1	368	98, 99	23	1691
Filter	J. Howes	280,828	July 10	610	{170 171	{24	114
Filter	J. W. Hyatt	273,539	Mar. 6	383	{101 102	{23	899
Filter	J. W. Hyatt	273,540	Mar. 6	386	102	23	900
Filter	J. W. Hyatt	273,541	Mar. 6	387	103	23	900
Filter	J. W. Hyatt	273,542	Mar. 6	388	{103 104	{23	900
Filter	J. W. Hyatt	273,543	Mar. 6	391	105	23	901
Filter	S. James	284,428	Sept. 4	329	92	24	959
Filter	J. Miller	271,098	Jan. 23	1572	452	23	318
Filter	A. Roos	278,186	May 22	2045	562	23	1998
Filter and cooler. Combined water	E. C. Hall	276,533	Apr. 24	2132	593	23	1615

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Filter and cooler. Combined water	E. J. Howe	289,263	Nov. 27	1830	505	25	853
Filter and percolator cover	G. F. Burton	284,606	Sept. 11	546	155	24	1003
Filter. Coffee	J. A. Raleigh	288,491	Nov. 13	892	243	25	671
Filter, cooler, and refrigerator. Combined	W. E. Templeton	280,881	July 10	670	189	24	125
Filter. Eccentric-shaped	L. Smith	290,364	Dec. 18	1232	347	25	1120
Filter for the manufacture of sugar, &c	O. Puvrez	286,960	Oct. 16	1486	408	25	282
Filter. Liquid	J. Benson	277,203	May 8	871	231	23	1781
Filter. Oil	R. C. Clark and W. F. Beecher	287,027	Oct. 30	2356	635	25	457
Filter-press	W. G. Strype	274,406	Mar. 20	1492	411	23	1107
Filter-press. High-pressure	J. Johnson	270,807	Jan. 16	1212	350	23	252
Filter. Water	H. Hartmann	283,103	Aug. 14	754	212	24	641
Filter. Water	J. S. Smart	270,255	Jan. 9	508	149	23	109
Filtering agent	J. W. Hyatt	272,442	Feb. 20	1079	304	23	644
Filtering agent	J. W. Hyatt	283,489	Aug. 21	1240	348	24	735
Filtering and refrigerating water. Apparatus for	S. F. Reynolds	277,931	May 22	1731	472	23	1943
Filtering apparatus	R. C. Armstrong	271,396	Jan. 30	1946	563	23	391
Filtering apparatus	N. A. B. Chevallot	289,980	Dec. 11	756	213	25	1027
Filtering apparatus	W. M. Fischer	290,019	Dec. 11	807	227	25	1046
Filtering apparatus for purifying paraffine, &c	D. T. Gray	281,491	July 17	1444	395	24	266
Filtering-bag	H. Muench	272,576	Feb. 20	1256	350	23	674
Filtering compound	C. A. Baker	286,370	Oct. 9	746	200	25	146
Filtering saccharine solutions, &c	P. Casamajor	270,634	Jan. 16	999	288	23	211
Filtering water. Apparatus for	C. Houghton	272,881	Feb. 27	1665	465	23	753
Finger-ring	H. Danziger	289,511	Dec. 4	178	49	25	917
Finger-ring	H. Henrich	274,193	Mar. 20	1215	334	23	1059
Finger-ring	H. Henrich	278,959	June 5	425	116	23	2196
Finger-ring and other jewelry	L. F. Hulen	289,912	Dec. 11	679	188	25	1012
Finger-ring and tooth-pick. Combined	M. C. Stone	272,965	Feb. 27	1779	498	23	772
Finishing-machine plates. Grinding	H. F. Case	269,915	Jan. 2	108	32	23	23
Fire-alarm	F. A. Copeland	286,393	Oct. 9	774	209	25	151
Fire-alarm	R. S. Finch	285,963	Oct. 2	253	71	25	48
Fire-alarm	A. and A. Iske	287,439	Oct. 30	2099	570	25	408
Fire-alarm	G. W. Nason	278,586	May 29	2566	701	23	2097
Fire-alarm and call-bell system. Electric	C. H. Frank	281,660	July 24	1684	459	24	312
Fire-alarm apparatus. Electric	W. C. Gordon	287,664	Oct. 30	2399	647	25	466
Fire-alarm box. Electric	B. Frese	277,020	May 8	640	167	23	1741
Fire-alarm-box lock	F. Pearce and J. Jones	280,506	July 3	210	55	24	38
Fire-alarm indicator and recorder	F. H. Field	288,221	Nov. 13	529	147	25	609
Fire-alarm purposes. Indicator for	M. G. Crane	273,033	Feb. 27	1839	514, 515	23	783
Fire-alarms. Automatic circuit-closer for electric	J. O. Wells	277,965	May 22	1772	483	23	1949
Fire and burglar alarm	B. J. Antrim	278,386	May 29	2333	638	23	2056
Fire and water proof covering for roofs, walls, &c. Composition of matter for	R. J. Pattison	284,055	Aug. 28	1938	.....	24	873
Fire-arm	J. H. Brown	290,740	Dec. 25	1750	483	25	1216
Fire-arm	S. J. Buzzini	284,815	Sept. 11	810	226	24	1048
Fire-arm	C. H. Eutebrouk	289,521	Dec. 4	187	52	25	919
Fire-arm	A. Hyde	273,282	Mar. 6	43	13	23	842
Fire-arm	M. V. Kacer and W. J. Kriz	273,288	Mar. 6	53	16	23	844
Fire-arm. Breech-loading	F. Beesley. (Reissue)	10,281	Feb. 6	528	142	23	531
Fire-arm. Breech-loading	R. L. Brewer	279,324	June 12	887	247	23	2283
Fire-arm. Breech-loading	A. T. Brown	282,838	Aug. 7	432	122	24	577
Fire-arm. Breech-loading	J. H. Brown	290,737	Dec. 25	1745	482	25	1216
Fire-arm. Breech-loading	D. S. Cole	289,070	Nov. 27	1606	445	25	811
Fire-arm. Breech-loading	J. Deeley, Jr., and J. S. Edge, Jr.	275,605	Apr. 10	964	262	23	1399
Fire-arm. Breech-loading	F. J. Evans	283,089	Aug. 14	731	205	24	637
Fire-arm. Breech-loading	W. Gardner	285,993	Oct. 2	263	74	25	50
Fire-arm. Breech-loading	W. B. Hall	276,808	May 1	355	95	23	1688
Fire-arm. Breech-loading	I. O. Holmes	273,684	Mar. 6	573	152	23	932
Fire-arm. Breech-loading	D. Kirkwood	289,273	Nov. 27	1839	508	25	855
Fire-arm. Breech-loading	E. L. Lake	284,213	Sept. 4	73	20.21	24	917
Fire-arm. Breech-loading	J. H. McLean	290,905	Dec. 25	1948	538	25	1251
Fire-arm. Breech-loading	L. Nagant	286,726	Oct. 16	1193	322	25	232
Fire-arm. Breech-loading	J. Turner	287,740	Oct. 30	2505	675	25	485
Fire-arm. Breech-loading	H. Walker	284,518	Sept. 4	440	125	24	979
Fire-arm. Breech-loading	A. E. Whitmore	282,941	Aug. 7	550	155, 156	24	598
Fire-arm. Breech-loading	A. E. Whitmore and J. Tonks	282,429	July 31	2656	728	24	484
Fire-arm lock	H. Goodman	288,939	Nov. 20	1438	396	25	774
Fire-arm lock	E. L. Lake	289,423	Dec. 4	61	17	25	897
Fire-arm lock	J. Randall	289,856	Dec. 11	607	169	25	1000
Fire-arm. Magazine	P. Boch	287,090	Oct. 23	1658	455, 456	25	320
Fire-arm. Magazine	A. Burgess	289,972	Dec. 11	744	210, 211	25	1024
Fire-arm. Magazine	A. Burgess	290,393	Dec. 18	1270	357	25	1127
Fire-arm. Magazine	A. Burgess	290,394	Dec. 18	1272	357, 358	25	1127
Fire-arm. Magazine	A. Burgess	290,529	Dec. 18	1468	406	25	1160
Fire-arm. Magazine	A. Burgess	290,848	Dec. 25	1880	519	25	1239
Fire-arm. Magazine	A. Burgess	290,968	Dec. 25	2042	562	25	1265
Fire-arm. Magazine	W. H. Elliot	274,578	Mar. 27	1738	482	23	1155
Fire-arm. Magazine	W. H. Elliot	278,003	May 22	1821	498	23	1958
Fire-arm. Magazine	W. H. Elliot	278,324	May 29	2250	617	23	2041
Fire-arm. Magazine	W. H. Elliot	285,020	Sept. 18	1069	299	24	1101
Fire-arm. Magazine	J. W. Frazier	290,636	Dec. 18	1603	440, 441	25	1183
Fire-arm. Magazine	H. T. Hazard	279,242	June 12	780	215	23	2267
Fire-arm. Magazine	A. S. Jones	270,808	Jan. 16	1214	350	23	253
Fire-arm. Magazine	M. V. Kacer and W. J. Kriz	282,328	July 31	2527	693	24	460
Fire-arm. Magazine	W. Mason	278,987	June 5	453	124, 125	23	2200
Fire-arm. Magazine	W. Mason	289,676	Dec. 4	375	107, 108	25	953

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Fire-arm. Magazine	P. Mauser	270,599	Jan. 16	955	270 277	23	204
Fire-arm. Magazine	P. Mauser	289,113	Nov. 27	1654	459	25	819
Fire-arm. Magazine	E. Whitney	273,654	Mar. 6	528	142	23	924
Fire-arm. Revolving	J. T. Aldrich	283,185	Aug. 14	850	238	24	657
Fire-arm. Revolving	F. H. Allen	273,335	Mar. 6	122	35	23	855
Fire-arm. Revolving	D. D. Smith	269,890	Jan. 2	82	24	23	18
Fire-arm safety-hammer	A. D. Hart	273,070	Feb. 27	1877	527	23	790
Fire-arm safety-lock	W. H. Bliss	283,854	Aug. 28	1673	472	24	827
Fire-arm safety-lock	J. P. Burkhard and F. Novotny	288,619	Nov. 20	1046	288	25	705
Fire-arm sight	J. H. Brown	290,739	Dec. 25	1748	483	25	1216
Fire-arm sight	R. Cannon	274,269	Mar. 20	1317	363	23	1077
Fire-arm sight	J. M. Farrington	285,474	Sept. 25	1609	452	24	1202
Fire-arm sight	B. H. Williams	283,447	Aug. 21	1187	334	24	726
Fire-arm stock	G. R. Vickers, Jr	287,741	Oct. 30	2506	675	25	486
Fire-arms. Combined stock and case for	J. Jett	276,593	May 1	65	18	23	1639
Fire-arms. Extractor for	G. H. Fox	278,424	May 29	2380	649 650	23	2064
Fire-arms. Fore-end for breech-loading	G. H. Fox	278,423	May 29	2379	649	23	2064
Fire-arms. Lock for revolving	D. B. Wesson	285,862	Oct. 2	104	31	25	21
Fire-arms. Magazine for	W. Mason	285,284	Sept. 18	1377	389	24	1156
Fire-arms. Recoil-cushion for	H. G. Piffard	281,725	July 24	1751	475	24	323
Fire-arms. Sight for small	T. Gilbert	289,081	Nov. 27	1618	448	25	814
Fire-arrester and fire-escape. Combined portable	S. Richards	274,977	Apr. 3	121	34	23	1246
Fire-box lining	E. E. Bunker	274,169	Mar. 20	1190	328	23	1054
Fire-engine	M. D. Halsey	285,259	Sept. 18	1351	381	24	1152
Fire-engine	R. Morrell	285,055	Sept. 18	1111	310	24	1108
Fire-engine boilers and heaters. Vacuum-relief for	C. Bresnahan	277,862	May 15	1646	449	23	1923
Fire-engine. Steam	W. H. Havens	274,321	Mar. 20	1382	380	23	1087
Fire-engine water-heater	W. V. Elliott	279,085	June 5	581	159	23	2223
Fire-engines. Coupling for uniting streams from	C. Callahan	276,131	Apr. 17	1625	447	23	1521
Fire-engines. Portable horse-power for operating	C. T. Unangst	287,891	Nov. 6	128	37, 38	25	530
Fire-engines. Water-heater for steam	W. V. Elliott	270,047	Jan. 16	1019	293	23	215
Fire-escape	A. L. Aldrich	278,651	May 29	2654	726	23	2112
Fire-escape	W. I. Allinder	290,197	Dec. 18	1019	287	25	1063
Fire-escape	S. J. Anderson	279,028	June 19	1266	351	23	2353
Fire-escape	R. E. Andrew	285,542	Sept. 25	1689	476	24	1218
Fire-escape	W. O. Avery	284,994	Sept. 18	1032	289	24	1095
Fire-escape	C. E. Baker	278,847	June 5	239	69	23	2164
Fire-escape	H. L. Barnard	278,763	June 5	106	30	23	2142
Fire-escape	W. H. Barnes	288,155	Nov. 6	444	125	25	585
Fire-escape	F. E. Baner	284,360	Sept. 4	246	68	24	946
Fire-escape	L. Baumeister	274,080	Mar. 13	1069	295	23	1025
Fire-escape	A. A. Beckett	290,311	Dec. 18	1168	327	25	1108
Fire-escape	C. Bemis	286,523	Oct. 9	927	250	25	179
Fire-escape	C. F. Bierbach	278,310	May 29	2231	612	23	2038
Fire-escape	C. F. Bierbach	287,410	Oct. 30	2065	561	25	400
Fire-escape	S. H. Bills	278,858	June 5	254	73, 74	23	2166
Fire-escape	S. H. Bingaman	281,235	July 17	1121	309	24	211
Fire-escape	G. M. Bird	290,313	Dec. 18	1170	327	25	1109
Fire-escape	A. Bixby	290,961	Dec. 25	2023	558	25	1263
Fire-escape	D. F. Black	275,121	Apr. 3	318	89	23	1280
Fire-escape	G. Borst and F. Will	289,061	Nov. 27	1595	442	25	809
Fire-escape	O. R. Bowie	281,661	July 24	1661	453	24	308
Fire-escape	J. S. Bowman	278,768	June 5	113	32	23	2143
Fire-escape	M. N. Brainard	278,865	June 5	264	76	23	2168
Fire-escape	H. E. Braunfeld	273,807	Mar. 13	734	199	23	968
Fire-escape	H. E. Braunfeld	283,961	Aug. 28	1805	511	24	852
Fire-escape	O. N. Brooks	285,564	Sept. 25	1711	483	24	1222
Fire-escape	A. T. Brown	272,642	Feb. 20	1338	375	23	689
Fire-escape	E. H. Brown	284,808	Sept. 11	802	224	24	1046
Fire-escape	I. Buckman	287,228	Oct. 23	1838	502	25	352
Fire-escape	A. C. Burghardt	284,180	Sept. 4	29	7	24	909
Fire-escape	J. H. Burks	288,304	Nov. 13	637	174	25	627
Fire-escape	W. S. Cassedy	287,233	Oct. 23	1844	504	25	353
Fire-escape	R. M. Chase	277,992	May 22	1807	493	23	1956
Fire-escape	W. Chase	278,655	May 29	2659	727	23	2113
Fire-escape	R. Christie	285,230	Sept. 18	1317	371	24	1144
Fire-escape	H. B. Church	283,968	Aug. 28	1813	513	24	853
Fire-escape	T. T. Church	289,220	Nov. 27	1783	494	25	843
Fire-escape	G. A. Clapp	283,755	Aug. 28	1502	440	24	808
Fire-escape	W. F. Clerk	276,669	May 1	161	41	23	1653
Fire-escape	G. H. Clowes and E. L. Frisbie, Jr	271,422	Jan. 30	1977	571	23	397
Fire-escape	G. H. Clowes and E. L. Frisbie, Jr	283,969	Aug. 28	1813	513	24	854
Fire-escape	D. R. Clymer	290,630	Dec. 18	1596	438	25	1181
Fire-escape	M. Collins	282,703	Aug. 7	287	80	24	549
Fire-escape	C. Connolly	288,411	Nov. 13	792	215	25	653
Fire-escape	M. J. and O. L. Cook and F. R. Smith.	287,365	Oct. 23	2004	546	25	382
Fire-escape	W. A. Cornyn	277,995	May 22	1811	494	23	1957
Fire escape	E. A. Costigan	284,281	Sept. 4	153	42	24	930
Fire-escape	H. H. Craigie	271,802	Feb. 6	260	73	23	486
Fire-escape	J. Crawford	274,278	Mar. 20	1328	366 367	23	1079
Fire-escape	C. E. Creecy and A. B. Burns	279,347	June 12	921	257	23	2289
Fire-escape	C. E. Creecy and A. B. Burns	279,348	June 12	922	257	23	2289
Fire-escape	D. Crowley	276,363	Apr. 24	1920	532	23	1579
Fire-escape	W. F. Cullen	279,638	June 19	1279	355	23	2356
Fire-escape	J. M. Cunningham	290,177	Dec. 11	986	278	25	1069
Fire-escape	H. D. Cutler	283,702	Aug. 21	1481	417	24	782
Fire-escape	J. E. Davis	271,429	Jan. 30	1988	574	23	399
Fire-escape	J. M. Davis	287,910	Nov. 6	150	44	25	534
Fire-escape	R. J. Dearborn	271,809	Feb. 6	271	75	23	488
Fire-escape	W. H. H. Doane	285,471	Sept. 25	1607	451	24	1202

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fire-escape	J. H. Downing	290,007	Dec. 11	793	223	25	1033
Fire-escape	W. W. Drake	275,608	Apr. 10	969	263	23	1400
Fire-escape	A. M. Dye	284,542	Sept. 4	464	132	24	983
Fire-escape	H. D. Eastman	275,895	Apr. 17	1341	369	23	1472
Fire-escape	D. P. Edgar	287,257	Oct. 23	1872	512	25	358
Fire-escape	J. A. Edmonds	272,129	Feb. 13	683	186	23	570
Fire-escape	A. C. Ellithorpe	277,891	May 22	1687	460	23	1936
Fire-escape	E. C. Eyl	285,740	Sept. 25	1939	549	24	1262
Fire-escape	H. Fairbanks	277,415	May 8	1112	298	23	1928
Fire-escape	J. R. Fell	285,603	Sept. 25	1766	500	24	1232
Fire-escape	J. H. Ford	285,250	Sept. 18	1340	377	24	1149
Fire-escape	P. T. Forsyth	285,606	Sept. 25	1768	501	24	1233
Fire-escape	T. H. Foster	285,806	Oct. 2	29	10	25	7
Fire-escape	J. H. Frazee and G. M. Culver	285,744	Sept. 25	1946	550	24	1263
Fire-escape	D. Friedheim	275,816	Apr. 17	1246	343	23	1454
Fire-escape	D. Galivan and J. C. Manning	285,808	Oct. 2	31	11	25	8
Fire-escape	D. L. Garver	289,080	Nov. 27	1618	448	25	813
Fire-escape	C. J. Geiger and W. T. Moore	290,567	Dec. 18	1520	418	25	1169
Fire-escape	E. Gerot	281,488	July 17	1440	394	24	965
Fire-escape	H. E. Goble	284,627	Sept. 11	571	161	24	1007
Fire-escape	J. Godfrey	273,722	Mar. 13	614	165	23	947
Fire-escape	J. Gowdey	280,306	June 26	2078	585	23	2503
Fire-escape	H. Greene	279,744	June 19	1399	391	23	2376
Fire-escape	J. Griesenauer	289,908	Dec. 11	673	187	25	1011
Fire-escape	W. W. Griffin	275,197	Apr. 3	405	111, 112	23	1296
Fire-escape	C. C. Griswold	279,150	June 12	687	188	23	2251
Fire-escape	J. Harper	280,741	July 3	489	138	24	87
Fire-escape	J. Hart	283,391	Aug. 21	1116	316	24	714
Fire-escape	A. J. Heavner	287,540	Oct. 30	2223	603, 604	25	433
Fire-escape	G. Heidel	276,815	May 1	364	96	23	1690
Fire-escape	A. C. Hitchcock	276,969	May 1	568	148	23	1723
Fire-escape	H. Hitchcock	282,892	Aug. 7	499	140	24	568
Fire-escape	G. Hofmann, Jr., and A. D. Hoffman	276,585	May 1	55	16	23	1637
Fire-escape	W. A. Holbrook	289,101	Nov. 27	1642	455	25	817
Fire-escape	E. J. Howe	275,658	Apr. 10	1037	280	23	1411
Fire-escape	R. Howland	272,259	Feb. 13	837	233	23	598
Fire-escape	G. H. Hume	279,762	June 19	1418	396	23	2380
Fire-escape	R. S. Isard	291,014	Dec. 25	2102	579	25	1275
Fire-escape	W. S. Isley	284,740	Sept. 11	718	201	24	1032
Fire-escape	C. Ives	287,764	Oct. 30	2542	684	25	492
Fire-escape	A. Johnson	287,940	Nov. 6	191	56	25	540
Fire-escape	A. J. Johnson	286,306	Oct. 9	667	178	25	131
Fire-escape	C. Johnson	284,431	Sept. 4	339	92	24	959
Fire-escape	W. F. Jolley	274,338	Mar. 20	1412	387	23	1092
Fire-escape	D. A. Keech	284,434	Sept. 4	335	93	24	960
Fire-escape	T. K. Keith and R. Carleton	288,447	Nov. 13	833	226	25	660
Fire-escape	E. W. Kelley	270,902	Jan. 23	1331	384	23	279
Fire-escape	G. Kelly	276,973	May 1	573	150	23	1724
Fire-escape	J. Kennedy	288,448	Nov. 13	834	226	25	660
Fire-escape	J. B. Kennedy	275,772	Apr. 10	1182	324, 325	23	1436
Fire-escape	M. P. Key	270,955	Jan. 23	1402	404	23	280
Fire-escape	H. B. Kimball and C. S. Barrett	283,617	Aug. 21	1380	386	24	762
Fire-escape	W. A. King	285,756	Sept. 25	1959	554	24	1265
Fire-escape	H. A. Lee	283,620	Aug. 21	1389	386	24	763
Fire-escape	O. G. Lee	282,996	Aug. 14	624	176	24	617
Fire-escape	J. Letzkus	279,774	June 19	1431	401	23	2389
Fire-escape	M. K. Lewis and E. Sanders	290,076	Dec. 11	873	248	25	1047
Fire-escape	G. W. Lindsey and H. W. Raleigh	276,610	May 1	82	22	23	1642
Fire-escape	H. H. Little	278,249	May 22	2125	585, 586	23	2011
Fire-escape	H. W. Littlefield	288,078	Nov. 6	357	99	25	568
Fire-escape	J. Lockwood and J. Kivett	285,282	Sept. 18	1375	388	24	1156
Fire-escape	G. W. Looney, Sr.	280,037	July 10	748	208	24	137
Fire-escape	C. J. Lung	287,142	Oct. 23	1724	472	25	333
Fire-escape	D. Luscher	276,057	Apr. 17	1529	420	23	1504
Fire-escape	W. C. Lutz	290,080	Dec. 11	879	249	25	1049
Fire-escape	S. MacCarty	284,451	Sept. 4	353	98	24	964
Fire-escape	T. Macdonough	286,456	Oct. 9	846	229	25	165
Fire-escape	C. Maliphant	284,871	Sept. 11	873	245	24	1059
Fire-escape	B. C. Margiloth	289,286	Nov. 27	1860	517	25	858
Fire-escape	C. F. Marskey	278,607	June 5	174	51	23	2152
Fire-escape	W. L. McCandliss	290,254	Dec. 18	1088	304	25	1095
Fire-escape	W. McCaughey	270,451	Jan. 9	757	222	23	157
Fire-escape	J. H. McElroy	271,498	Jan. 30	2064	599	23	416
Fire-escape	F. Melchior	278,034	May 22	1858	507	23	1965
Fire-escape	J. Metzger	289,119	Nov. 27	1663	461	25	821
Fire-escape	C. Meyer	279,175	June 12	711	194	23	2254
Fire-escape	S. T. Mickey	277,049	May 8	676	176, 177	23	1748
Fire-escape	G. M. Miller and F. Riemer	290,908	Dec. 25	1953	539	25	1252
Fire-escape	J. A. Miller	287,560	Oct. 30	2249	610	25	438
Fire-escape	C. W. Mills	282,351	July 31	2558	701	24	466
Fire-escape	J. Moffet	285,296	Sept. 18	1390	393	24	1159
Fire-escape	M. E. Moore	280,653	July 3	377	105	24	66
Fire-escape	J. B. Morris	289,924	Dec. 11	690	193	25	1014
Fire-escape	C. Murdock	282,212	July 31	2381	655	24	435
Fire-escape	W. L. Murphy	285,832	Oct. 2	61	19	25	13
Fire-escape	W. Nack	281,549	July 17	1508	415	24	277
Fire-escape	F. Newhouse and H. Mooers	277,600	May 15	1341	361	23	1867
Fire-escape	W. Newland	280,070	June 26	1801	506	23	2452
Fire-escape	W. Oldroyd	278,171	May 22	2027	557	23	1994

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fire-escape	M. M. Ormsby	283,650	Aug. 21	1416	397	24	769
Fire-escape	A. Palmer	280,231	June 26	1984	557, 558	23	2486
Fire-escape	A. Palmer	290,917	Dec. 25	1962	542	25	1253
Fire-escape	J. Pappa	275,514	Apr. 10	850	230	23	1379
Fire-escape	S. W. Parker and H. Blackman	289,701	Dec. 4	423	118	25	959
Fire-escape	J. S. Parmenter	285,301	Sept. 18	1397	395	24	1160
Fire-escape	W. C. Parsels	287,856	Nov. 6	78	23	25	521
Fire-escape	P. P. Pealer	280,304	Nov. 27	1880	523, 524	25	863
Fire-escape	A. L. Pitney	277,340	May 8	1030	276, 277	23	1810
Fire-escape	N. J. Powell	287,467	Oct. 30	2133	579	25	414
Fire-escape	N. J. Powell	291,001	Dec. 25	2085	575	25	1272
Fire-escape	R. L. Pruyn	274,657	Mar. 27	1830	508	23	1173
Fire-escape	H. Redden	281,557	July 17	1518	417	24	279
Fire-escape	W. Rees	276,468	Apr. 24	2053	570	23	1602
Fire-escape	J. Reese	278,820	June 5	192	56	23	2155
Fire-escape	J. Reidy	288,117	Nov. 6	404	114	25	578
Fire-escape	H. Rensch	281,136	July 10	982	275	24	180
Fire-escape	T. W. Ricker	279,186	June 12	723	197, 198	23	2257
Fire-escape	J. Ripczinski and C. Tisch, Jr	280,957	July 10	768	213	24	141
Fire-escape	P. P. Ripley	279,814	June 19	1476	414	23	2390
Fire-escape	E. T. Rowe	283,666	Aug. 21	1435	402	24	773
Fire-escape	A. N. Sande	286,850	Oct. 16	1348	369	25	259
Fire-escape	C. J. Savitz	288,122	Nov. 6	409	116	25	579
Fire-escape	L. Sawtell	287,058	Oct. 23	1619	446	25	313
Fire-escape	J. Schmittknecht	289,568	Dec. 4	248	70	25	931
Fire-escape	M. Scholl	284,763	Sept. 11	748	207	24	1037
Fire-escape	H. J. H. Schuett	275,083	Apr. 3	269	74	23	1272
Fire-escape	J. D. Seagrave and E. R. Fuller	286,644	Oct. 16	1085	293	25	213
Fire-escape	H. Small	287,880	Nov. 6	112	33	25	527
Fire-escape	J. B. Smith	288,131	Nov. 6	419	118	25	581
Fire-escape	P. Smith	283,158	Aug. 14	815	227	24	651
Fire-escape	T. B. Smith	289,318	Nov. 27	1895	527	25	866
Fire-escape	E. Solomons	281,154	July 10	1002	281	24	184
Fire-escape	C. F. Spencer	272,389	Feb. 13	1006	282	23	626
Fire-escape	C. F. Spencer	283,159	Aug. 14	816	228	24	651
Fire-escape	A. W. Sperry	276,090	Apr. 17	1570	432	23	1511
Fire-escape	J. Stever	270,995	Jan. 23	1450	418	23	298
Fire-escape	J. Stever	283,163	Aug. 14	820	229, 230	24	652
Fire-escape	J. Stofflet	285,319	Sept. 18	1416	400	24	1163
Fire-escape	I. L. Stover	283,038	Aug. 14	674	189	24	627
Fire-escape	L. Strachl	289,163	Nov. 27	1712	477	25	830
Fire-escape	W. H. Stuckey	277,376	May 8	1068	287	23	1816
Fire-escape	A. P. Sturtevant	276,730	May 1	262	67	23	1669
Fire-escape	N. B. Terry	274,410	Mar. 20	1496	412	23	1107
Fire-escape	J. G. Thomas	284,088	Aug. 28	1981	552	24	881
Fire-escape	G. H. Thompson	282,413	July 31	2630	722	24	480
Fire-escape	C. W. Tillett	289,730	Dec. 4	452	126	25	965
Fire-escape	A. Todd and L. H. McKee	277,433	May 8	1136	306	23	1827
Fire-escape	W. Torst	283,439	Aug. 21	1177	331	24	724
Fire-escape	H. R. Tracy	272,103	Feb. 13	652	177	23	564
Fire-escape	A. S. Trafton	277,175	May 8	842	222	23	1776
Fire-escape	C. H. Tweed	284,688	Sept. 11	651	183	24	1020
Fire-escape	W. Ulrich	275,962	Apr. 17	1413	390	23	1485
Fire-escape	F. Vaughan	279,053	June 5	542	149	23	2215
Fire-escape	A. Vogt	277,386	May 8	1080	290	23	1818
Fire-escape	H. B. Walbridge	276,736	May 1	270	68	23	1670
Fire-escape	A. Walker	284,517	Sept. 4	439	124	24	979
Fire-escape	M. S. Washburn	280,538	July 3	243	65	24	44
Fire-escape	J. D. Weed	277,389	May 8	1082	291	23	1819
Fire-escape	D. Welsh	278,301	May 22	2210	606	23	2026
Fire-escape	W. H. Welsh	287,598	Oct. 30	2317	626	25	450
Fire-escape	W. Wightman	288,902	Nov. 20	1393	384	25	766
Fire-escape	J. S. M. Willcox	289,050	Nov. 27	1582	437	25	807
Fire-escape	E. Wilson	279,900	June 19	1583	444	23	2409
Fire-escape	S. D. Woodbury	282,478	July 31	2717	748	24	494
Fire-escape	F. R. Woodward	287,491	Oct. 30	2168	588	25	421
Fire-escape	F. R. Woodward	287,492	Oct. 30	2169	588	25	421
Fire-escape	C. A. Youngman	288,149	Nov. 6	438	123	25	584
Fire-escape	A. R. Yount	285,197	Sept. 18	1279	360	24	1138
Fire-escape	J. Zerr	286,519	Oct. 9	923	249	25	178
Fire-escape. Bed-bottom	L. Bloedon	284,802	Sept. 11	795	222	24	1045
Fire-escape cable	A. O. Morford	280,065	June 26	1795	504	23	2451
Fire-escape friction-clamp	J. T. Jones	284,305	Sept. 4	184	52	24	935
Fire-escape. Inclined-plane	E. H. Bailey	288,394	Nov. 13	771	208, 209	25	649
Fire-escape ladder	F. H. Anthony	288,756	Nov. 20	1224	334	25	735
Fire-escape ladder	W. C. Bush	275,135	Apr. 3	337	93	23	1284
Fire-escape ladder	E. A. Converse	271,796	Feb. 6	254	71	23	485
Fire-escape ladder	W. T. Covert	281,342	July 17	1254	349	24	234
Fire-escape ladder	A. C. Ferris	277,124	May 8	774	203	23	1764
Fire-escape ladder	L. Hamlin	275,905	Apr. 17	1351	372	23	1473
Fire-escape ladder	J. S. Harrison	282,079	July 31	2197	603	24	406
Fire-escape ladder	J. H. Heath	280,373	July 3	41	11	24	9
Fire-escape ladder	F. E. Josel	285,273	Sept. 18	1365	385	24	1154
Fire-escape ladder	C. T. Merritt	283,008	Aug. 14	637	180	24	620
Fire-escape ladder	A. Peteler	283,654	Aug. 21	1419	397, 398	24	770
Fire-escape ladder	S. J. Phreaner	273,386	Mar. 6	195	52	23	867
Fire-escape ladder	J. Riley	276,715	May 1	239	60	23	1665

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fire-escape ladder	S. D. Shattuck	285,690	Sept. 25	1862	531	24	1250
Fire-escape ladder	G. A. Swartz	283,530	Aug. 21	1279	358	24	743
Fire-escape ladder	R. M. Wilson	289,876	Dec. 11	631	176	25	1003
Fire-escape ladder	T. Wyatt and J. F. Holmes	280,433	July 3	120	32	24	23
Fire-escape ladder. Flexible	W. C. Bush	277,222	May 8	888	236	23	1784
Fire-escape ladder. Flexible	D. A. Peters	282,362	July 31	2571	705	24	468
Fire-escape tower	S. J. Pardessus	277,156	May 8	818	215	23	1772
Fire-escape with an alarm attachment	J. H. Smiley	280,527	July 3	231	61	24	41
Fire-escapes. Fire-proof box for	B. C. Margileth	289,287	Nov. 27	1861	517	25	859
Fire-extinguisher	J. W. Bishop	283,106	Aug. 14	864	242	24	661
Fire-extinguisher	A. M. Burritt	270,011	Jan. 2	220	63	23	45
Fire-extinguisher	C. W. Caryl	278,879	June 5	280	81	23	2171
Fire-extinguisher	A. F. Spawn	280,410	July 3	87	23	24	18
Fire-extinguisher	P. C. E. Tabouët	286,502	Oct. 9	900	243	25	173
Fire-extinguisher	G. W. Taylor and A. R. Cox	275,731	Apr. 10	1122	307	23	1426
Fire-extinguisher	G. F. Wagner	279,054	June 5	544	149, 150	23	2216
Fire-extinguisher	C. C. Walworth	281,169	July 10	1020	285	24	187
Fire-extinguisher alarm apparatus	A. M. Burritt	270,010	Jan. 2	218	63	23	45
Fire extinguisher and alarm	C. E. Buell	275,752	Apr. 10	1154	317	23	1431
Fire-extinguisher and fire-alarm system. Electric	C. E. Buell	280,906	July 10	699	197	24	130
Fire-extinguisher apparatus	W. K. Platt	270,332	Jan. 9	601	177	23	127
Fire-extinguisher. Automatic	J. W. Birkett	280,009	June 26	1725	483	23	2440
Fire-extinguisher. Automatic	J. W. Bishop	276,343	Apr. 24	1900	527	23	1575
Fire-extinguisher. Automatic	C. E. Brennan	270,731	Jan. 16	1124	322	23	235
Fire-extinguisher. Automatic	J. R. Brown	278,215	May 22	2086	574	23	2004
Fire-extinguisher. Automatic	J. R. Brown	278,216	May 22	2087	574	23	2005
Fire-extinguisher. Automatic	J. R. Brown	278,217	May 22	2088	575	23	2005
Fire-extinguisher. Automatic	J. R. Brown	278,218	May 22	2088	575	23	2005
Fire-extinguisher. Automatic	J. R. Brown	278,219	May 22	2090	575	23	2005
Fire-extinguisher. Automatic	C. E. Buell	278,654	May 29	2658	727	23	2112
Fire-extinguisher. Automatic	C. L. Delmage	281,181	July 10	1042	289	24	191
Fire-extinguisher. Automatic	R. W. and F. Grinnell	277,481	May 15	1198	322	23	1845
Fire-extinguisher. Automatic	A. S. Harris	269,930	Jan. 2	126	38	23	26
Fire-extinguisher. Automatic	J. Hill	283,242	Aug. 14	921	256, 257	24	671
Fire-extinguisher. Automatic	C. L. Horack	270,801	Jan. 16	1204	318	23	251
Fire-extinguisher. Automatic	C. L. Horack	270,952	Jan. 23	1394	402	23	289
Fire-extinguisher. Automatic	C. L. Horack	272,693	Feb. 20	1397	392	23	699
Fire-extinguisher. Automatic	C. L. Horack	288,059	Nov. 6	336	94	25	564
Fire-extinguisher. Automatic	G. W. Horton	280,376	July 3	44	12	24	10
Fire-extinguisher. Automatic	V. Vankeerberghen	272,803	Feb. 20	1536	432	23	725
Fire-extinguisher. Automatic	C. C. Walworth	271,669	Feb. 6	100	27	23	457
Fire-extinguisher. Automatic	C. C. Walworth and O. B. Hall	287,071	Oct. 23	1636	450	25	316
Fire extinguisher. Automatic car-stove	J. F. Gyles	277,127	May 8	780	205	23	1765
Fire extinguisher. Automatic car-stove	J. F. Gyles	278,236	May 22	2111	582	23	2009
Fire-extinguisher. Pneumatic	W. Sellers	269,965	Jan. 2	170	49	23	35
Fire-extinguishers. Hand-grenade for	J. J. Harden	282,981	Aug. 14	594	168	24	613
Fire extinguishing and alarm system. Automatic	C. E. Buell	271,783	Feb. 6	239	67, 68	23	482
Fire-extinguishing apparatus	D. Beck	278,307	May 29	2228	611	23	2037
Fire-extinguishing apparatus	H. Molendo	285,146	Sept. 18	1224	344	24	1127
Fire-extinguishing apparatus and escape	P. H. Spelman	289,869	Dec. 11	621	173	25	1002
Fire-extinguishing compound	G. J. Crikelair	278,315	May 29	2236	.....	23	2038
Fire-extinguishing system	C. E. Buell	285,459	Sept. 25	1592	447	24	1199
Fire-indicator. Thermostatic	R. N. Dyer	287,757	Oct. 30	2526	681	25	489
Fire-kindler	W. J. Babb	277,190	May 8	857	.....	23	1779
Fire-kindler	W. J. Babb. (Reissue)	10,352	July 10	1100	.....	24	201
Fire-kindler	N. C. Butler	285,009	Sept. 18	1053	295	24	1099
Fire-kindler	R. A. Eddy	282,868	Aug. 7	473	133	24	584
Fire-kindler	E. H. Foss	274,184	Mar. 20	1206	332	23	1057
Fire-kindler	J. H. French	270,298	Jan. 9	558	164	23	119
Fire-kindler	G. Gschwendtner	282,883	Aug. 7	488	137	24	586
Fire-kindler	A. Küchenmeister, A. Gröschel, and A. Rauchenbichler.	288,067	Nov. 6	344	96	25	566
Fire-kindler	A. C. Miller	271,648	Feb. 6	76	21	23	454
Fire-kindler	A. E. Osborn	290,997	Dec. 25	2081	573	25	1272
Fire-kindler	L. Piepgrass	284,057	Aug. 28	1939	542	24	873
Fire-kindler	L. D. C. Wood and T. B. Dorrell	286,103	Oct. 2	399	109	25	73
Fire-kindler attachment for stoves and grates	C. F. Allis	287,402	Oct. 30	2058	559	25	399
Fire-kindlers. Apparatus for making	D. A. Beery and N. B. Sprague	284,597	Sept. 11	536	152	24	1001
Fire-kindling composition	W. M. Koon	278,436	May 29	2397	.....	23	2067
Fire-kindling substances. Press for molding	T. S. Rayner	281,923	July 24	2000	548	24	367
Fire-lighter. Automatic	J. M. Russell	284,677	Sept. 11	637	180	24	1018
Fire-mask	C. McIntosh	276,699	May 1	209	54	23	1660
Fire-place	D. S. Loe	282,740	Aug. 7	325	93	24	557
Fire-place	G. L. Morrison	275,933	Apr. 17	1381	380	23	1479
Fire-place	H. Rembert	279,433	June 12	1036	287	23	2207
Fire-place	M. Y. Thompson	274,846	Mar. 27	2045	570	23	1210
Fire-place and chimney	W. C. Hamner	278,791	June 5	157	46	23	2149
Fire-place and cooking-stove. Combined	J. Overton	286,058	Oct. 2	342	95	25	61
Fire-place lining	J. Adair	272,013	Feb. 13	535	145	23	545
Fire-proof cloth	H. W. Johns	290,238	Dec. 18	1072	300	25	1092
Fire-proof composition	C. C. Gilman. (Reissue)	10,419	Dec. 11	1008	.....	25	1073
Fire-proof composition	C. C. Gilman. (Reissue)	10,420	Dec. 11	1008	.....	25	1074
Fire-proof compound	K. A. Hohenstein	289,262	Nov. 27	1829	.....	25	833
Fire-proof compound and sheet	N. C. Fowler	288,935	Nov. 20	1433	.....	25	774
Fire-proof garment	J. E. Smith	279,669	June 19	1317	366	23	2362
Fire-proof lining for boxes, safes, doors, shutters, vaults, &c.	L. H. Miller	283,133	Aug. 14	784	.....	24	646
Fire-proof material	J. S. Beer	290,837	Dec. 25	1866	515	25	1237
Fire-proof material for filling safes, doors, &c	G. Kelly	283,789	Aug. 28	1604	.....	24	815
Fire-proof partition-block	M. Lapersonnerie	287,552	Oct. 30	2242	608	25	436
Fire-proof structure	W. Corliss	280,294	June 26	2060	579, 580	23	2439

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fire-proof structure	S. Liddle	273,556	Mar. 6	406	109	23	903
Fireproofing and furring device	G. B. Phelps	279,011	June 5	484	139	23	2306
Fireproofing composition	J. H. Nolan	289,022	Nov. 27	1545	.....	25	800
Fire-shield	S. Richards	274,976	Apr. 3	119	33, 34	23	1246
Fire, water, and acids. Composition of matter for resisting	B. Rhodes	278,046	May 22	1870	.....	23	1967
Fires. Extinguishing	C. L. Garfield	283,996	Aug. 28	1849	521	24	859
Fires in buildings. Method of and appliance for controlling and preventing	W. H. Maxwell and J. M. Stearns, Jr.	286,621	Oct. 16	1062	286	25	209
Fires in oil-tanks. Apparatus for extinguishing	G. and F. H. Dunham	290,010	Dec. 11	796	224	25	1034
Fires on vessels. Apparatus for extinguishing	A. F. Spawn	285,520	Sept. 25	1662	467	24	1212
Fire-works. Daylight	J. Hirayama	282,891	Aug. 7	498	140	24	588
Fish-egg-hatching trough	L. Stone	277,805	May 15	1578	431	23	1911
Fish for market. Preparing salt	O. Andrews	275,973	Apr. 17	1427	394	23	1488
Fish-hook	A. L. Dawson	289,508	Dec. 4	172	48	25	916
Fish-hook holder. Self-adjusting fish-shaped	C. Hymers	273,996	Mar. 13	963	265	23	1007
Fish-meal. Manufacturing	F. B. Nichols and C. Thomson	276,868	May 1	432	.....	23	1702
Fish-net sinker	D. Erickson	286,188	Oct. 9	502	138	25	103
Fish. Preserving	R. S. Jennings	273,094	Feb. 27	1918	.....	23	797
Fish-trap	C. Fisher	279,556	June 19	1188	329	23	2339
Fish-trap	J. M. Frazer	270,411	Jan. 9	705	209	23	147
Fish-trap hook	W. N. Greer	280,610	July 3	327	91	24	58
Fish-trap hook	M. R. Skinner	286,494	Oct. 9	888	240	25	172
Fish-trap or spring-hook	R. A. Wentworth	283,444	Aug. 21	1182	332	24	725
Fishway	C. W. Trammer	286,869	Oct. 16	1370	375	25	263
Fishing apparatus	L. Kessler	281,083	July 10	915	256	24	169
Fishing-float	R. W. E. Aldrich	270,358	Jan. 9	632	186	23	133
Fishing-float and manufacturing the same	V. Vidal, Jr	290,154	Dec. 11	963	272	25	1065
Fishing-lines. Rotary leader-link for	C. L. Bollermann	289,612	Dec. 4	300	84	25	940
Fishing-reel	J. M. Bryan	278,867	June 5	966	77	23	2168
Fishing-reel	T. H. Chubb	282,270	July 31	2449	674	24	447
Fishing-reel	J. Dreiser	283,084	Aug. 14	726	203	24	636
Fishing-reel	H. C. A. Kasschau	285,630	Sept. 25	1797	512	24	1238
Fishing-reel	A. Lang	283,496	Aug. 21	1248	350	24	737
Fishing-reel	F. Malleson	284,217	Sept. 4	79	22	24	918
Fishing-reel	G. H. Palmer	281,918	July 24	1994	546	24	366
Fishing-reel	E. C. Vom Hofe	271,166	Jan. 23	1653	475	23	332
Fishing-rod	W. Mitchell	270,460	Jan. 9	770	225	23	159
Fishing-rod tip	T. H. Chubb	277,230	May 8	898	239	23	1786
Fishing-rods. Device for attaching reels to	W. B. Doubleday	285,346	Sept. 18	1449	408	24	1166
Fishing-rods. Tension-equalizer for	R. Smith	279,988	June 26	1696	476	23	2434
Fishing-stake	D. B. Tiffany	279,508	June 12	1125	311	23	2321
Fishing-tackle	C. J. B. Gaume	272,232	Feb. 13	903	254	23	591
Fishing-tackle	H. Van Altena	279,206	June 12	742	203	23	2260
Fishing-tackle case	H. F. Price	275,703	Apr. 10	1087	297	23	1420
Fishing-tackle sinker	H. Rix	285,075	Sept. 18	1131	316	24	1112
Flange-union	T. Corris	280,353	July 3	19	5	24	5
Flanged clamp	E. S. Leaycraft	279,576	June 19	1209	334	23	2343
Flanging circular plates. Machine for	J. T. Duff	274,115	Mar. 20	1124	310	23	1041
Flanging-machine	A. Wilbur	274,872	Mar. 27	2066	579	23	1216
Flanging-machine	A. Wilbur	276,111	Apr. 17	1598	441	23	1516
Flask: *See* Dental flask. Dentist's flask. Drinking-flask. Molding-flask. Powder-flask.							
Flask or bottle	J. Gruenebaum	284,127	Aug. 28	2035	565	24	890
Flat-iron. Electric	R. N. Dyer and H. W. Seely	287,758	Oct. 30	2529	{681 682}	25	490
Flavoring-extract for sirup and sugar	J. Daily. (Reissue)	10,285	Feb. 13	1019	.....	23	626
Flax-puller	A. C. Lamar	287,445	Oct. 30	2105	{572 573}	25	409
Flax, &c. Machinery for breaking and scutching	J. Shinn and A. F. Fuller	277,517	May 15	1237	333	23	1851
Fleeced fabrics. Producing	W. H. Crapon	279,922	June 26	1615	454	23	2421
Flier for roving-machines	E. W. Kelley	282,329	July 31	2529	693	24	461
Float	E. D. Shepardson	274,833	Mar. 27	2033	566	23	1208
Float-valve or ball-cock	J. E. Boyle	290,204	Dec. 18	1029	290	25	1085
Flocked fabric or imitation textile fabric	C. A. Evans	275,176	Apr. 3	380	.....	23	1292
Flood-gate	G. W. Francis	272,872	Feb. 27	1646	461	23	751
Flood-gate	E. P. Poindexter	290,265	Dec. 18	1109	311	25	1098
Flood-gate	A. L. Stout	281,941	July 24	2021	553	24	371
Floor. Basement or cellar	O. A. Smith	274,985	Apr. 3	130	36	23	1248
Floor-clamp	F. E. Allen	280,113	June 26	1849	521	23	2462
Floor-clamp	H. F. and A. W. Case	275,017	Apr. 3	174	47	23	1255
Floor-clamp	E. Caywood	281,968	July 24	2056	563	24	377
Floor-clamp	H. D. Margot	284,747	Sept. 11	726	203	24	1034
Floor-clamp	S. Raymond	279,808	June 19	1469	412	23	2389
Floor-covering	T. J. Mayall	286,043	Oct. 2	324	90	25	60
Floor. Fire-proof	A. J. Campbell	289,218	Nov. 27	1781	493	25	843
Floor-jack	J. H. Williams	286,981	Oct. 16	1516	416	25	287
Floor-mat	S. Toffler	276,983	May 1	584	153	23	1726
Floor-plank clamp	G. H. Duvall	280,152	June 26	1890	532	23	2469
Floor, roof, &c. Concrete	T. Hyatt	290,886	Dec. 25	1927	532	25	1248
Floors and arches. Device for constructing brick	A. Mattice	271,346	Jan. 30	1879	544	23	378
Floors and for other purposes. Cover for	J. D. Cheever	285,343	Sept. 18	1446	.....	24	1168
Floors, partitions, &c. Application of wire-gauze in the construction of	J. McCarroll	275,240	Apr. 3	458	127	23	1304
Flooring	A. J. B. A. Chatain	283,375	Aug. 21	1101	310	24	711
Flooring-jack	J. Himelberger	285,894	Oct. 2	148	42	25	29
Florist's form	C. A. Kuehn	274,006	Mar. 13	978	268	23	1009
Florist's frame and stand	A. Le Moult	284,745	Sept. 11	725	202	24	1033
Flour and meal bolt	W. Mosher	285,761	Sept. 25	1963	556	24	1266
Flour bin and sifter	A. R. Manley	283,909	Aug. 28	1738	491	24	838
Flour-bolt	H. A. Graeter	273,836	Mar. 13	772	209	23	974
Flour-bolt	J. Nicht	288,845	Nov. 20	1326	364	25	753

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Flour-bolt	C. A. Smith	289,935	Dec. 11	699	196	25	1016
Flour-bolt. Centrifugal	A. P. Holcomb and A. Heine	271,846	Feb. 6	315	87	23	496
Flour-bolt. Centrifugal	A. P. Holcomb and A. Heine	280,622	July 3	342	95	24	61
Flour-bolt. Centrifugal	A. P. Holcomb and A. Heine	285,630	Sept. 25	1784	507	24	1236
Flour-bolts, &c. Conveyer for	G. E. Mount and E. Bassett	288,588	Nov. 13	1006	277	25	692
Flour-bolts, &c. Conveyer for	C. B. Slater	277,622	May 15	1370	369	23	1873
Flour-bolting and middlings-cleaning machine	B. T. Trimmer	287,890	Nov. 6	125	37	25	529
Flour-chest and cupboard. Combined	T. J. Corr	285,577	Sept. 25	1728	488	24	1225
Flour-dresser	L. W. Pruss	271,360	Jan. 30	1904	551	23	383
Flour-dressing machine	M. Crawford	287,250	Oct. 23	1864	510	25	356
Flour-dressing machine	W. D. Gray	278,702	June 5	32	9, 10	23	2130
Flour-dressing machine	A. Hunter and E. Kuehne	278,143	May 22	1991	547	23	1998
Flour-dressing machine	L. W. Pruss	271,361	Jan. 30	1908	551, 552	23	384
Flour from grain. Manufacture of	L. Gathmann	278,531	May 29	2510	.....	23	2088
Flour. Machine for mixing and aerating	J. D. Bangert	274,697	Mar. 27	1878	523, 524	23	1181
Flour-mill dust-collector	F. Prinz	272,473	Feb. 20	1115	315	23	650
Flour-mill dust-collector	F. Prinz	272,474	Feb. 20	1116	315	23	650
Flour-mill feeder	P. Harnist	290,421	Dec. 18	1323	367	25	1135
Flour-mills. Roller reduction-machine for	H. M. Rounds	271,742	Feb. 6	187	52	23	473
Flour-packer	H. A. Barnard	274,878	Mar. 27	2095	582	23	1217
Flour-packer	J. Handy and D. H. Lord	277,895	May 22	1691	461	23	1936
Flour-packer	J. B. Martin	277,845	May 15	1625	443	23	1919
Flour-packer	C. F. Walters	279,678	June 19	1330	370	23	2364
Flower-pot	M. Holden	289,102	Nov. 27	1644	455	25	817
Flower-pot for artificial flowers	B. Löwy	288,706	July 24	1721	468	24	318
Flower-pot holder	P. Goeden	277,125	May 8	777	204	23	1765
Flower-pot holder and shield	W. A. Birch	286,993	Oct. 23	1535	423	25	294
Flower-stand	E. J. Bonett, T. Gilfillan, and A. W. Flanders.	276,663	May 1	153	39	23	1652
Flower-stand	W. H. Tingle	284,090	Aug. 28	1963	552	24	881
Flower-stand. Revolving	H. Westphal	283,840	Aug. 28	1659	468	24	824
Flower-stand. Window	R. Körner	285,140	Sept. 18	1215	342	24	1126
Flowers. Gage for forming foundations for artificial	J. Lambert	276,430	Apr. 24	2004	555	23	1593
Flowers. Machine for making the bodies of artificial	L. Lafon	290,436	Dec. 18	1340	371	25	1138
Flue-cleaner	W. J. Bradshaw	272,640	Feb. 20	1336	375	23	689
Flue cleaner. Boiler-	R. P. Gerlach	278,699	June 5	30	8	23	2130
Flue-cleaning machine	H. Otto	290,998	Dec. 25	2062	573, 574	25	1272
Flue-expander	J. Faessler	270,770	Jan. 16	1170	335	23	243
Flue for heating-stoves and furnaces. Hot-air	J. A. Watrous	288,142	Nov. 6	430	121	25	583
Flue-plugging device	F. Sharp	278,612	May 29	2600	709	23	2103
Flue scraper. Boiler-	W. A. Gay	274,756	Mar. 27	1944	541	23	1193
Flue-stop	J. F. Lockwood	279,874	June 19	1554	434	23	2403
Flue-stop	J. W. Webster	274,682	Mar. 27	1859	518	23	1178
Flue-stopper	C. H. Williams and F. Saker	280,700	July 3	436	124	24	78
Flue stopper. Chimney-	J. R. Higgins	282,726	Aug. 7	312	88	24	554
Flues. Making radiating	F. B. Nichols and C. Thomson	286,219	Oct. 9	536	147	25	109
Flues. Tool for expanding and beading	T. Crosier	281,346	July 17	1259	350	24	235
Fluid-can	W. H. and W. J. Clark	272,647	Feb. 20	1344	377	23	690
Fluid-meter	F. G. Hesse	282,985	Aug. 14	569	169	24	614
Fluid-meter	L. H. Nash	280,322	June 26	2099	589	23	2506
Fluid-meter	A. Schmid	288,869	Nov. 20	1353	371, 372	25	758
Fluid-meter. Piston	C. C. Barton and J. A. Milliken	274,879	Mar. 27	2097	582, 583	23	1218
Fluid-meter. Piston	C. C. Barton and J. Thomson	285,209	Sept. 18	1292	363, 364	24	1140
Fluid-motor	W. J. Morton	271,257	Jan. 30	1763	511	23	358
Fluids, air, and water. Apparatus for utilizing the force of	E. E. H. Rousseau	276,079	Apr. 17	1553	429	23	1509
Flush-valve. Automatic	H. C. Lowrie	271,644	Feb. 6	72	20	23	453
Flushing apparatus for tanks	H. C. Weeden	274,156	Mar. 20	1171	323	23	1050
Flushing-tank. Automatic	M. Sexton	287,179	Oct. 23	1773	486	25	341
Flushing-valve	J. McGinley	290,256	Dec. 18	1091	304	25	1095
Fluting and ironing machine	J. V. Smith	277,520	May 15	1242	334	23	1852
Fluting and molding machine. Spiral	W. J. Tait	284,512	Sept. 4	432	123	24	977
Fluting-iron	R. Young	278,650	May 29	2653	726	23	2112
Flux and preparing and using the same. Welding-	J. J. Laffitte	286,311	Oct. 9	671	.....	25	132
Flux for welding metal	W. Mutter	282,464	July 31	2701	.....	24	491
Flux. Welding-	E. A. Whitcomb	277,393	May 8	1087	.....	23	1830
Fluxing and protecting molten metals. Composition to be used in	F. J. Clamer and J. G. Hendrickson	280,349	July 3	13	.....	24	4
Fly-paper	O. Thum	278,294	May 22	2191	603	23	2022
Fly-screen	C. W. Ellis	270,037	Jan. 2	249	72	23	51
Fly-wheel	H. Blank	284,369	Sept. 4	255	70	24	947
Fly-wheels of engines, &c. Device for turning	P. P. Kilcullen	279,652	June 19	1296	360	23	2358
Fodder-cutter	L. M. Batty	272,403	Feb. 20	1032	289	23	636
Fodder-cutter	J. J. Johnston	273,237	Feb. 27	2093	587	23	827
Fodder-frame	J. Lynes	270,233	Jan. 9	484	143	23	105
Fog-horns, &c. Apparatus for blowing	E. E. Swett	280,686	July 3	417	118	24	74
Fog-signal	F. Brown	284,807	Sept. 11	800	223, 224	24	1045
Foil and paper fabric. Combined	H. S. and L. Crooke	289,505	Dec. 4	168	46	25	916
Folding, bath, and invalid chair	F. A. Ufer	286,871	Oct. 16	1371	376	25	963
Folding boat	C. M. Douglas	285,981	Oct. 2	251	71	25	48
Folding box	J. P. Buckingham	284,179	Sept. 4	28	7	24	909
Folding box	P. Canessa	280,013	June 26	1729	485	23	2440
Folding box	S. J. Everett	276,676	May 1	182	47	23	1655
Folding chair	J. J. Bowker	271,778	Feb. 6	233	65	23	481
Folding chair	A. Collignon	282,273	July 31	2452	675	24	448
Folding chair	W. J. Decker	274,730	Mar. 27	1909	533	23	1187
Folding chair	H. J. Harwood	275,206	Apr. 3	420	115	23	1298

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Folding chair	G. A. Leavitt, Jr	272,273	Feb. 13	856	239	23	601
Folding chair	G. A. Stiles	284,921	Sept. 11	931	262	24	1070
Folding chair, camp-stool, and settee	C. W. Champlin and J. Bland	273,954	Mar. 13	917	252	23	998
Folding-machine	L. C. Crowell	277,549	May 15	1283	345	23	1858
Folding-machine	L. C. Crowell	281,619	July 17	1601	438 439	24	292
Folding school seat and desk	P. L. Shepler	272,165	Feb. 13	720	198	23	576
Folding seat	E. G. Durant and E. Shupe	278,691	June 5	90	6	23	2128
Folding seat	P. L. Shepler	272,166	Feb. 13	721	198	23	577
Folding table	C. E. Abbot	286,891	Oct. 16	1398	384	25	267
Folding table	H. Benedict	285,101	Sept. 18	1165	326	24	1117
Folding table	N. Clark	270,388	Jan. 9	678	201	23	142
Folding table	M. Cook	283,211	Aug. 14	882	246	24	664
Folding table	F. Geeking	285,995	Oct. 2	267	75	25	50
Folding table	G. S. Knapp	283,119	Aug. 14	771	217	24	644
Folding table	M. Maples	287,306	Oct. 23	1935	528	25	370
Folding table	V. A. Menuez	281,281	July 17	1174	324	24	221
Folding table	V. A. Menuez	281,282	July 17	1175	325	24	221
Folding table	B. H and B. P. Richardson	290,932	Dec. 25	1988	548	25	1257
Folding table	C. L. Shattuck	272,909	Feb. 27	1694	474	23	758
Folding table	H. A. Tobey	285,526	Sept. 25	1670	470	24	1214
Folding table	J. Tull	287,739	Oct. 30	2504	675	25	485
Folding table	C. G. Udell	290,500	Dec. 18	1423	394	25	1153
Folding table or flower-pot stand	B. Stetson	289,464	Dec. 4	107	31	25	906
Font made from glass, porcelain, &c. Holy-water	F. Malloy	288,085	Nov. 6	366	101	25	570
Food for infants and process of preparing the same. Granulated	W. Horlick	278,967	June 5	432	.....	23	2197
Food. Manufacture of medicated	C. I. Flasschoen	287,429	Oct. 30	2086	.....	25	405
Food. Process of and apparatus for curing articles of	A. J. Chase	275,145	Apr. 3	347	95	23	1286
Food. Producing farinaceous	J. Schweitzer	277,792	May 15	1563	426	23	1908
Foot and leg protector	W. Beattie	283,193	Aug. 14	861	241	24	660
Foot-board. Spring	E. N. Moore and T. N. Anderson	271,256	Jan. 30	1762	511	23	358
Foot-power	G. Davis	288,778	Nov. 20	1945	342	25	739
Foot-power	H. W. Poez	287,716	Oct. 30	2472	666	25	480
Foot-power machine	J. F. Fuller and C. H. Knowlton	274,185	Mar. 20	1206	332	23	1057
Foot-power machine	A. B. Kittson	285,820	Oct. 2	45	15	25	10
Foot-power mechanism	A. B. Kittson	285,819	Oct. 2	44	14, 15	25	10
Foot-rest	M. E. Burris and C. E. Staniels	277,880	May 22	1674	457	23	1933
Foot-rest	E. W. Dolph	271,434	Jan. 30	1999	577	23	401
Foot-warmer	J. Robinson	271,364	Jan. 30	1914	553	23	385
Foot-warmer	D. Shirley	287,061	Oct. 23	1622	447	25	313
Foot-warmer	J. T. Smith	284,914	Sept. 11	926	261	24	1069
Forge	G. Campbell	285,224	Sept. 18	1309	368	24	1143
Forge. Blacksmith's	W. Shaw	287,180	Oct. 23	1774	487	25	342
Forge-blast apparatus	B. T. Babbitt	273,433	Mar. 6	250	68	23	876
Forge. Portable	J. P. Holt	280,824	July 10	605	169	24	113
Forging anchors. Machine for	J. Nock	273,135	Feb. 27	1966	552 553	23	806
Forging cutting-pliers. Method of and die for	J. C. Balzer	283,458	Aug. 21	1199	337	24	729
Fork: *See* Brick-fork. Hay-fork. Carving-fork. Manure-fork. Coal-fork. Toasting-fork.							
Fork	J. S. and A. Ray	273,154	Feb. 27	1988	559	23	810
Fork-guard	T. F. Curley	275,155	Apr. 3	359	98	23	1288
Fork-guard	G. H. Warren	286,658	Oct. 16	1104	297	25	216
Fork-guard	G. T. Wiswell	286,668	Oct. 16	1119	301	25	219
Form. Adjustable dress-	J. Hall	269,851	Jan. 2	40	13	23	10
Form. Adjustable dress-	S. M. Moschcowitz	274,958	Apr. 3	99	27, 28	23	1242
Form. Dress-	J. D. Richardson and F. L. Manchester.	277,344	May 8	1034	277	23	1811
Form or stand. Dress	G. M. Rockwell	272,479	Feb. 20	1129	317	23	652
Form or stand. Dress	G. M. Rockwell. (Reissue)	10,334	May 29	2683	735	23	2117
Form. Self-fitting clothing-	J. B. Payne	282,665	Aug. 7	227	66	24	539
Former	L. S. Billings	275,349	Apr. 10	633	169	23	1343
Fountain: *See* Ink-fountain. Printing-press ink-fountain.							
Fountain	G. A. Bush	286,261	Oct. 9	590	162	25	118
Fountain	M. M. Murray	277,598	May 15	1339	360	23	1667
Fountain	A. D. Puffer	278,269	May 22	2157	592 593	23	2016
Fracture apparatus	P. E. Crist	278,101	May 22	1934	531	23	1979
Frame: *See* Awning-frame. Plow-frame. Blacking-frame. Printing-frame. Caster-frame. Pump-frame. Clothes-drier frame. Purse-frame. Florist's frame. Quilting-frame. Fodder-frame. Saw-frame. Glass-cutting frame. Screen-frame. Grinding-wheel frame. Sewing-machine quilting-frame. Hand-bag frame. Skylight-frame. Looking-glass frame. Slate-frame. Mattress-frame. Spinning-frame. Mosquito-bar frame. Stretcher-frame. Net-frame. Tent-frame. Numeral-frame. Window-frame. Photograph-frame. Window-screen frame. Picture-frame.							
Frame. Braced	F. H. Beattie	272,697	Feb. 20	1318	367 368 369 370	23	686
Frame-corner fastening	J. E. Stuart	277,076	May 8	718	186	23	1754

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Frame corner-plate	H. M. Jones	287,441	Oct. 30	2101	571	25	408
Frame, pedestal, vase, &c. Decorated	R. Marsh	285,423	Sept. 25	1554	437	24	1192
Frames. Back for picture and other	L. A. Deuther	270,563	Jan. 9	905	261	23	186
Frames. Back for picture and other	L. A. Deuther	274,737	Mar. 27	1917	534	23	1188
Freight. Handling	F. H. Weeks	274,235	Mar. 20	1275	352	23	1069
Friction-brake for pulleys, &c	J. C. and C. H. Tise	273,914	Mar. 13	868	236	23	991
Friction-movement	J. A. Horton	277,282	May 8	957	257	23	1797
Friction roller and box	R. Seldon	277,070	May 8	710	184	23	1753
Friezing-machine	F. C. Miller	276,855	May 1	411	110	23	1698
Frog	W. J. Morden	285,647	Sept. 25	1814	517	24	1241
Fruit and vegetable cutter	J. T. Walker	273,201	Feb. 27	2043	575	23	890
Fruit, &c. Apparatus for bleaching	J. R. Hillman	275,044	Apr. 3	213	58	23	1262
Fruit. Apparatus for drying and conserving	D. Burr	288,973	Nov. 27	1485	411	25	790
Fruit-basket	R. E. Morey	277,148	May 8	809	213	23	1771
Fruit-basket and cover. Combined	J. W. Rockafellow and P. T. B. Nevius.	284,064	Aug. 28	1950	544	24	875
Fruit-bleacher	A. Brockway	287,294	Oct. 23	1833	501	25	351
Fruit-bleacher	R. E. Stone	281,940	July 24	2020	553	24	371
Fruit-can	C. F. Barter	289,374	Dec. 4	5	2	25	888
Fruit-cleaner	J. F. Hudson	281,512	July 17	1468	403	24	271
Fruit-crate	M. H. Disbrow	289,754	Dec. 4	479	135	25	970
Fruit-drier	F. S. and J. B. Belcher	285,957	Oct. 2	228	64	25	43
Fruit-drier	T. J. Brown and G. McGowan	270,278	Jan. 9	532	156	23	114
Fruit-drier	J. M. Campbell	283,202	Aug. 14	874	244	24	662
Fruit-drier	A. Crawford	279,719	June 19	1372	383	23	2372
Fruit-drier	W. C. Crozier	277,685	May 15	1440	388, 389	23	1985
Fruit-drier	C. Cullen	285,018	Sept. 18	1067	298	24	1101
Fruit-drier	C. A. Curran	278,890	June 5	293	84, 85	23	2173
Fruit-drier	J. R. Dew	284,726	Sept. 11	702	196	24	1029
Fruit-drier	W. C. Doherty	277,013	May 8	696	164	23	1739
Fruit-drier	L. Granger and E. F. Sibley	278,701	June 5	31	9	23	2130
Fruit-drier	G. S. Grier	284,838	Sept. 11	836	234	24	1052
Fruit-drier	W. F. Hale	281,057	July 10	884	246	24	164
Fruit-drier	W. Z. Hampton	271,065	Jan. 23	1531	442	23	312
Fruit-drier	J. H. Hunter	287,542	Oct. 30	2227	605	25	434
Fruit-drier	W. H. Loughead and J. B. Fleming	286,936	Oct. 16	1454	399	25	276
Fruit-drier	W. R. Phillips	270,695	Jan. 16	1061	310	23	296
Fruit-drier	H. N. Reid	280,242	June 26	1999	562	23	2489
Fruit-drier	W. Schmols	288,124	Nov. 6	412	116	25	560
Fruit-drier	E. Sheets	288,503	Nov. 13	906	247	25	673
Fruit-drier	D. Stutzman	284,922	Sept. 11	933	262	24	1070
Fruit-drier	J. M. Teasdale	279,844	June 19	1517	424	23	2397
Fruit-drier	J. J. Towle	284,579	Sept. 4	514	143	24	990
Fruit-drier	E. M. Turner	276,902	Apr. 24	1713	474	23	1544
Fruit-drier	C. W. Vetter	286,509	Oct. 9	908	245	25	175
Fruit-drier	A. W. Walker	281,167	July 10	1019	285	24	187
Fruit-drier. Solar	W. P. Kirkland	281,084	July 10	916	256	24	169
Fruit-evaporator	W. H. Albach	283,552	Aug. 21	1304	365	24	748
Fruit-evaporator	C. B. Irish	273,091	Feb. 27	1913	536	23	796
Fruit-evaporator	S. W. Lowell	284,450	Sept. 4	352	90	24	963
Fruit-evaporator	J. and J. S. Williams	272,927	Feb. 27	1714	479	23	761
Fruit-gatherer	S. S. Hickok	272,690	Feb. 20	1394	391	23	699
Fruit-gatherer	W. C. Howells	278,017	May 22	1840	501	23	1961
Fruit-gatherer	J. L. Talbott and C. J. Hiter	287,977	Nov. 6	236	67	25	549
Fruit-gathering vessel	A. Johnston	280,185	June 26	1921	540	23	2475
Fruit-jar	H. Cain	279,535	June 19	1163	322	23	2335
Fruit-jar	J. H. Cowl	282,849	Aug. 7	449	127	24	579
Fruit-jar	J. L. De Steiger	278,893	June 5	296	86	23	2174
Fruit-jar	J. L. De Steiger	288,963	Nov. 27	1497	414	25	792
Fruit-jar	L. Gallaher	278,530	May 29	2509	685	23	2067
Fruit-jar	J. Gilberds	271,328	Jan. 30	1858	539	23	375
Fruit-jar	J. Gilberds	282,188	July 31	2354	649	24	430
Fruit-jar	G. F. Hoeffer	282,193	July 31	2361	650	24	431
Fruit-jar	A. S. Lambert	289,276	Nov. 27	1843	508	25	855
Fruit-jar	G. F. Littlejohn	285,280	Sept. 18	1373	387	24	1156
Fruit-jar	P. Lyon and J. H. Bossard	274,020	Mar. 27	1787	497	23	1164
Fruit-jar	R. Malcom	288,084	Nov. 6	365	101	25	570
Fruit-jar	J. Murphin	282,916	Aug. 7	522	146	24	593
Fruit-jar	W. A. Williamson	280,701	July 3	437	124, 125	24	78
Fruit-jar cover	H. A. Hoppe	275,047	Apr. 3	216	58	23	1963
Fruit-jar cover	W. R. Van Vliet	275,793	Apr. 10	1206	330	23	1440
Fruit-jar-cover fastener	W. Cochrane	276,670	May 1	162	41	23	1653
Fruit-jar-heating case	A. Robinson	277,944	May 22	1743	475	23	1945
Fruit-jar opener	G. A. M. Liljencrants	285,048	Sept. 18	1102	307	24	1107
Fruit-jar opener	G. A. M. Liljencrantz	286,836	Oct. 16	1331	363	25	256
Fruit-picker	W. S. Castor	282,051	July 31	2161	593	24	400
Fruit-picker	R. J. Morgan	288,096	Nov. 6	382	108	25	574
Fruit-picker	J. Sealamer	287,780	Oct. 30	2561	689	25	496
Fruit-picker	W. F. Wimpee	288,685	Nov. 20	1132	311	25	719
Fruit-pitter	C. A. Curran	276,365	Apr. 24	1923	533	23	1560
Fruit-pitter	N. B. Hicks	281,507	July 17	1459	400	24	270
Fruit-press	H. H. Brown	281,830	July 24	1887	515	24	348
Fruit-receptacle	J. Owen	282,215	July 31	2383	656	24	436
Fruit shipping and truck basket	F. P. Haines	288,429	Nov. 13	813	220	25	657
Fruit-squeezer	T. C. Newman	283,014	Aug. 14	643	182	24	621
Fruit-squeezer	P. H. Stein and J. Tams	280,257	June 26	2016	566	23	2491
Fruit-stoner	I. F. Betts	281,234	July 17	1119	308, 309	24	211
Fruit-stoner	J. M. Harlow	269,852	Jan. 2	41	13	23	10
Fruit-stoner	L. C. Hill	272,549	Feb. 20	1210	339	23	667
Fruits and flowers. Cutter and holder for	P. McDonald	289,116	Nov. 27	1658	460	25	820
Frying-pan	O. E. Worden	283,314	Aug. 14	1008	282	24	668
Fuel. Artificial	J. B. Hyde	274,779	Mar. 27	1974		23	1196

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Fuel composition	J. C. Cooper	279,479	June 12	1089	.....	23	2315
Fuel-feeding device	G. Sinclair	288,505	Nov. 13	908	248	25	673
Fuel. Feeding pulverized	J. B. Hyde	274,778	Mar. 27	1972	549	23	1198
Fuel. Machine for twisting grass for	G. A. Parker	272,757	Feb. 20	1477	415	23	714
Fulling-mill	R. Eickemeyer	289,901	Dec. 11	663	185	25	1009
Fulling-mill	R. H. H. Hunt	280,929	July 10	735	205	24	135
Fume-arrester for chimney-flues	M. Freudenberg	276,386	Apr. 24	1953	540	23	1584
Funnel	H. E. Gifford	279,730	June 19	1395	389	23	2376
Funnel	A. B. Pratt	281,727	July 24	1752	475	24	323
Funnel and strainer	E. Steinhorst	279,989	June 26	1698	476	23	2435
Fur cape and waist	D. Prince	286,959	Oct. 16	1485	408	25	282
Fur-clipping and unhairing machine	T. Rasmus	275,077	Apr. 3	258	72	23	1270
Fur-cutting guide	A. Lissner	269,867	Jan. 2	54	17	23	13
Fur-cutting machine	E. H. Godshalk	275,640	Apr. 10	1017	274	23	1408
Fur-cutting machine	L. F. Zieger	289,594	Dec. 4	280	78	25	936
Fur garment	W. Keller	281,886	July 24	1956	534	24	360
Fur-plucking machine	L. Dresdner	269,838	Jan. 2	23	7	23	7
Fur robes. Machine for cleaning	F. Hosch	286,928	Oct. 16	1444	397	25	275
Furs. Guide for cutting	A. Lissner	284,866	Sept. 11	868	243	24	1058
Furnace:							
See Amalgamating-furnace.	Metal-melting furnace.						
Annealing-furnace.	Metallurgic furnace.						
Antimony-furnace.	Metallurgical furnace.						
Assay-furnace.	Ore-furnace.						
Bagasse-furnace.	Ore-desulphurizing furnace.						
Blast-furnace.	Ore-reducing furnace.						
Boiler-furnace.	Ore-roasting furnace.						
Boiler or other furnace.	Oxidizing-furnace.						
Charcoal-furnace.	Plumber's charcoal-furnace.						
Coal-burning furnace.	Plumber's portable furnace.						
Coke-furnace.	Puddling-furnace.						
Crucible furnace.	Recuperator-furnace.						
Cupel-furnace.	Regenerating-furnace.						
Cupelling-furnace.	Regenerative furnace.						
Cupola-furnace.	Regenerator-furnace.						
Engine-furnace.	Reverberatory furnace.						
Gas-furnace.	Reverberatory smelting-furnace.						
Gas-consuming furnace.	Roasting and reducing furnace.						
Gas-generating furnace.	Roasting and smelting furnace.						
Gas-retort furnace.	Rotating furnace.						
Glass-furnace.	Saw-heating furnace.						
Glass-annealing furnace.	Smelting-furnace.						
Glass-melting furnace.	Smoke and gas consuming furnace.						
Hay and straw furnace.	Smoke-burning furnace.						
Heating-furnace.	Smoke-consuming furnace.						
Heating, tempering, and annealing furnace.	Smoke-consuming and water-heating furnace.						
Hot-air furnace.	Soldering-furnace.						
Hydrocarbon-furnace.	Steel-melting furnace.						
	Tire-heating furnace.						
	Tube-heating furnace.						
Furnace	J. Altmeyer	271,393	Jan. 30	1942	562	23	391
Furnace	V. W. Blanchard	289,963	Dec. 11	732	207	25	1022
Furnace	G. F. Burkhardt	284,181	Sept. 4	31	8	24	910
Furnace	G. E. Buschick	277,407	May 8	1101	296	23	1822
Furnace	J. Carson	271,418	Jan. 30	1973	570	23	396
Furnace	U. Cummings	289,990	Dec. 11	772	217	25	1029
Furnace	W. Ernst	289,634	Dec. 4	322	90	25	944
Furnace	T. M. Fell	288,416	Nov. 13	797	216	25	655
Furnace	J. Flannery	270,773	Jan. 16	1173	336	23	244
Furnace	L. P. French	287,656	Oct. 30	2390	645	25	464
Furnace	G. R. Scates	270,989	Jan. 23	1442	416	23	297
Furnace	J. S. Williams	286,887	Oct. 16	1392	382, 383	25	266
Furnace	C. H. Wilson	289,591	Dec. 4	275	77	25	936
Furnace air-heater	V. W. Blanchard	290,172	Dec. 11	981	277	25	1068
Furnace and hollow grate-bar	O. B. Morse	284,652	Sept. 11	602	170	24	1012
Furnace and the art of working the same	J. Henderson	281,063	July 10	889	247, 248	24	165
Furnace and working the same	J. Henderson. (Reissue)	10,399	Oct. 30	2576	692	25	499
Furnace bridge-walls, &c. Gas combining and heating block for	R. R. Zell	273,661	Mar. 6	536	144	23	926
Furnace-chimney	D. M. Graham	290,573	Dec. 18	1596	420	25	1170
Furnace-door	T. R. Butman	273,813	Mar. 13	746	203	23	970
Furnace-door	E. Fox	286,692	Oct. 16	1153	311	25	224
Furnace fire-bar	J. G. Galley	270,582	Jan. 16	929	260	23	199
Furnace for burning culm and other fine fuel	F. E. Fahrig	289,400	Dec. 4	34	10	25	893
Furnace for burning pyrites	J. Mason	274,453	Mar. 20	1564	428	23	1119
Furnace for effecting the protection of iron and steel surfaces.	F. S. Barff, G. and A. S. Bower	273,799	Mar. 13	725	197	23	967
Furnace for effecting the protection of iron and steel surfaces.	G. and A. S. Bower	270,005	Jan. 2	212	61, 62	23	44
Furnace for glass-factories, &c.	J. D. Putnam	287,470	Oct. 30	2135	580	25	415
Furnace for ingots. Soaking	T. Critchlow	278,512	May 29	2487	679	23	2063
Furnace for manufacturing iron and steel	J. Henderson	281,764	July 24	1801	491	24	332
Furnace for steam-boilers, &c.	W. C. Ford	288,418	Nov. 13	799	217	25	655

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Furnace for the manufacture of carbon	H. Frasch	281,046	July 10	872	242	24	161
Furnace for the manufacture of iron and steel and for other purposes.	J. Henderson	282,315	July 31	2503	688	24	457
Furnace-fronts. Device for cooling	W. S. McKenna	281,098	July 10	930	260	24	171
Furnace-grate	C. H. Baush	277,538	May 15	1268	340	23	1856
Furnace-grate	W. Kearney	285,040	Sept. 18	1094	305	24	1106
Furnace-grate	T. Kirkwood	277,491	May 15	1214	325	23	1847
Furnace-grate	B. S. Niebell	270,100	Jan. 2	313	93	23	64
Furnace-grate	J. A. Price	276,876	May 1	439	117	23	1704
Furnace-grate	J. A. Price	282,565	Aug. 7	111	33	24	519
Furnace-grate	H. Rogers	283,419	Aug. 21	1148	394, 395	24	720
Furnace grate-bar	P. W. Lamb	274,949	Apr. 3	85	23	23	1240
Furnace lining. Iron and steel	E. L. Ford	279,089	June 5	586	.....	23	2223
Furnace-linings and fire-brick. Compound for	J. Henderson	279,157	June 12	695	.....	23	2252
Furnace-linings and fire-brick. Compound for	J. Henderson	279,158	June 12	695	.....	23	2252
Furnace-linings and fire-brick. Compound for	J. Henderson	279,159	June 12	696	.....	23	2252
Furnace-linings and fire-brick. Compound for	J. Henderson	279,160	June 12	697	.....	23	2252
Furnace-linings. Manufacture of	H. Ulsmann	273,917	Mar. 13	873	.....	23	991
Furnace or stove door latch	E. J. Shields	273,172	Feb. 27	2009	565	23	813
Furnace-protector	D. R. Fraser	284,830	Sept. 11	825	230	24	1050
Furnace water-jacket	J. H. Canavan	277,989	May 22	1805	492, 493	23	1955
Furnaces. Air-injector for	J. W. Bonta	287,754	Oct. 30	2523	680	25	488
Furnaces. Air-supplying device for steam-boiler	J. Howden	288,437	Nov. 13	821	223	25	659
Furnaces and device for operating the same. Reversing-valve for	H. Swindell	277,079	May 8	721	187, 188	23	1755
Furnaces. Apparatus for feeding fuel to	J. McMillan and W. A. Robertson	289,354	Nov. 27	1942	539, 540	25	874
Furnaces. Apparatus for feeding shavings to	J. Switter	286,344	Oct. 9	718	192	25	140
Furnaces. Burning peat, &c., in steam and hot-air	W. E. Wright	278,208	May 22	2076	572	23	2003
Furnaces. Combustion device for steam-boiler	W. Harman	287,670	Oct. 30	2408	649	25	468
Furnaces. Cutter for revolving puddling	S. T. Wellman	285,861	Oct. 2	103	30, 31	25	20
Furnaces. Device for feeding air to	W. J. Bradshaw and W. W. Cowley	275,574	Apr. 10	924	250	23	1392
Furnaces. Device for promoting combustion in	J. E. Baker	282,035	July 31	2135	586	24	396
Furnaces. Device for promoting combustion in boiler	I. W. Seaverns, Jr	286,854	Oct. 16	1352	370	25	280
Furnaces. Draft-pipe for steam-boiler	F. Mertsheimer	286,625	Oct. 16	1065	287	25	209
Furnaces. Feed-hopper and bell for blast and other	E. Shepard	274,667	Mar. 27	1844	513	23	1175
Furnaces. Feeding air to	T. M. Fell	270,653	Jan. 16	1025	294, 295	23	216
Furnaces. Feeding straw as fuel to	W. S. Prosser	279,013	June 5	485	132	23	2206
Furnaces for receiving the dump. Attachment for cupola-	H. W. Fayette	287,527	Oct. 30	2207	599	25	429
Furnaces. Gas-seal for blast	E. A. Uehling	273,194	Feb. 27	2033	572	23	818
Furnaces. Hydrocarbon-burner for	L. Leffert's	289,424	Dec. 4	62	18	25	897
Furnaces. Machine for pushing tubes into	E. W. Wolfe	275,312	Apr. 3	548	149	23	1319
Furnaces. Method of and apparatus for heating the gaseous fuel of	J. H. Cremer	278,898	June 5	290	84	23	2173
Furnaces. Process of and apparatus for burning water-gas in	C. J. Eames	272,378	Feb. 13	991	277	23	623
Furniture	E. W. Vaill	289,583	Dec. 4	266	75	25	934
Furniture and cabinet-ware. Applying straw braid to	G. Hunzinger	273,847	Mar. 13	785	213	23	977
Furniture-feet. Self-acting clip for	E. C. Phillips	271,263	Jan. 30	1771	513	23	360
Furniture-fender	D. C. Peck and F. L. Gaylord	290,466	Dec. 18	1379	381	25	1145
Furniture-leg fastening	H. S. Hall	270,661	Jan. 16	1034	297	23	218
Furniture-nail	J. W. McCrillis	270,239	Jan. 9	490	145	23	106
Furniture-pad	J. C. Pelton, Jr	273,885	Mar. 13	835	227	23	985
Fuse cutter and capper	F. P. Picking	276,459	Apr. 24	2042	567	23	1600
Fuse. Miner's	W. Eltringham	280,158	June 26	1696	534	23	2470
Gaff for fore-and-aft vessels	W. F. C. Nindemann	280,945	July 10	757	210	24	139
Gag-runner	R. G. Hanford, Jr	277,715	May 15	1474	398	23	1891
Gag-runner	R. G. Hanford, Jr	277,716	May 15	1474	398	23	1891
Gag-runner	G. M. Hubbard	278,554	May 29	2535	692	23	2092
Gag-runner	W. S. Thayer	284,258	Sept. 4	127	25	24	936
Gag-runner	M. E. Zeller	271,970	Feb. 6	467	127	23	522
Gage: *See* Axle-gage. Caliper-gage. Candle-mold gage. Carpenter's gage. Centering-gage. Cream-gage. Metal-sheet gage. Micrometer-gage. Milk and cream gage. Plow-gage. Pressure-gage. Printing-press feed-gage. Saw-shapening gage. Saw-table gage. Scratch-gage. Screw-cutting gage. Sewing-machine gage. Shrinkage-gage. Surface-gage. Water-gage. Weather-board gage. Weather-boarding gage.							
Gage	J. Logan	283,627	Aug. 21	1391	389	24	764
Gage	W. McCullough	270,091	Jan. 2	303	90	23	62
Gage. Adjustable	S. E. Stacy	288,375	Nov. 13	744	202	25	644
Gage for curved work. Feed-table	J. Wrigley	273,000	Feb. 27	1795	502, 503	23	775
Gage for elongation and compression of materials under strain.	W. H. Paine	285,661	Sept. 25	1829	522	24	1244
Gaiter. Congress	N. R. Packard, 2d	287,312	Oct. 23	1942	531	25	371
Gaiters, gloves, &c. Fastening for	W. J. Walden	272,359	Feb. 13	956	267	23	618
Galley-rest	T. Day	270,207	Jan. 9	451	132	23	99
Galley type-lock	S. D. Webb	274,681	Mar. 27	1850	517, 518	23	1177
Galley type-lock	S. D. Webb. (Reissue)	10,424	Dec. 11	1012	284, 285	25	1073
Galvanic batteries. Circle-switch for	H. Lowe	274,452	Mar. 20	1563	427	23	1119
Galvanic battery	W. A. Alexander	275,797	Apr. 17	1226	335	23	1451
Galvanic battery	R. C. Anderson	289,795	Dec. 11	538	.....	25	985

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Galvanic battery	J. A. Barrett	271,299	Jan. 30	1819	527	23	368
Galvanic battery	S. Bergmann	288,916	Nov. 20	1412	389	25	770
Galvanic battery	F. De Lalande and G. Chaperon	274,110	Mar. 20	1114	308	23	1040
Galvanic battery	J. W. Gilbert and E. T. Starr	281,262	July 17	1157	320	24	218
Galvanic battery	A. Haid	286,809	Oct. 16	1292	350	25	249
Galvanic battery	W. W. Karshner	280,933	July 10	742	207	24	136
Galvanic battery	T. L. Kauffer and J. Serson	272,058	Feb. 13	590	159	23	554
Galvanic battery	T. L. Kauffer and J. Serson	279,872	June 19	1552	434	23	2403
Galvanic battery	L. D. McIntosh	273,751	Mar. 13	660	177	23	955
Galvanic battery	J. B. Odell	275,845	Apr. 17	1282	352	23	1460
Galvanic battery	F. H. Peckham, Jr	285,066	Sept. 18	1123	.....	24	1111
Galvanic battery	A. M. Rosebrugh	271,992	Feb. 6	502	135	23	527
Galvanic battery	E. F. Schlosser	282,784	Aug. 7	371	105	24	565
Galvanic battery	G. Scrivanow	270,702	Jan. 16	1089	312	23	228
Galvanic battery	J. Unger and S. O. Eisele	290,149	Dec. 11	956	271	25	1063
Galvanic-battery cell	L. E. Felton	287,812	Nov. 6	27	9	25	512
Galvanic-battery pole	B. F. Blackall and J. C. Decker	274,899	Apr. 3	10	3	23	1228
Game	P. H. Johnson	282,990	Aug. 14	607	172	24	615
Game	E. S. Sackett	275,526	Apr. 10	867	234	23	1382
Game	E. G. Williams	275,308	Apr. 3	541	148	23	1318
Game apparatus	T. R. Boone	282,608	Aug. 7	161	49	24	529
Game apparatus	J. Doyle	281,348	July 17	1262	351	24	236
Game apparatus	A. Hicks	290,328	Dec. 18	1191	334	25	1112
Game apparatus	C. S. Thompson	286,868	Oct. 16	1369	375	25	262
Game apparatus	H. T. W. Waller	289,043	Nov. 27	1573	434	25	905
Game apparatus	T. H. Ward	287,352	Oct. 23	1989	542	25	380
Game apparatus for playing parlor-quoits	H. A. De Windt	285,396	Sept. 25	1519	428	24	1186
Game apparatus or toy target	C. Sears	289,032	Nov. 27	1559	430	25	803
Game apparatus to imitate base-ball	H. B. McCool	270,963	Jan. 23	1411	406	23	292
Game-ball	W. B. Melot	289,297	Nov. 27	1872	520	25	861
Game-board	J. L. Dibble	283,868	Aug. 28	1691	477	24	830
Game-board	J. W. Larimore	278,712	June 5	48	15	23	2133
Game-board	J. D. Spang	271,530	Jan. 30	2120	610	23	422
Game board or table and appurtenances thereto	J. L. Dibble	283,869	Aug. 28	1692	477	24	830
Game-box. Combination	J. W. Boteler	286,583	Oct. 16	1009	272	25	199
Game-carrier	A. White	276,945	May 1	538	139	23	1718
Game-counter	F. S. Heiser	282,725	Aug. 7	311	88	24	554
Game-counter	D. K. Horton	280,375	July 3	43	12	24	10
Game-counter	J. L. Knight	274,005	Mar. 13	976	268	23	1009
Game-counter	H. A. Russell	278,747	June 5	88	26	23	2139
Game-counter	W. A. Wales	276,101	Apr. 17	1584	437	23	1514
Game-table	H. F. Arff and D. Bornholdt	279,313	June 12	866	241, 242	23	2281
Game-table	G. Calder	289,217	Nov. 27	1780	493	25	843
Game-table	F. Schlueter	290,360	Dec. 18	1228	345	25	1119
Game. Target and ring	A. Evans, Jr	281,624	July 17	1609	440	24	293
Garden implement	W. C. Moore	270,243	Jan. 9	494	146	23	107
Garment. Circular outer	T. D. Barter	279,211	June 12	746	205	23	2261
Garment-clasp	J. Buchanan	288,005	Nov. 6	279	79	25	555
Garment-clasp	C. W. Foster	277,700	May 15	1455	393	23	1888
Garment-clasp	C. E. Granniss	272,954	Feb. 27	1745	487	23	766
Garment-clasp	L. D. Minor	272,075	Feb. 13	610	165	23	558
Garment. Convertible	M. Brenner	285,106	Sept. 18	1170	328	24	1118
Garment-fastener	C. G. Dobbs	276,367	Apr. 24	1925	533	23	1580
Garment-hanger	A. Pike and S. Schlesinger	284,478	Sept. 4	384	106	24	969
Garment-protector	H. M. Chittenden	290,319	Dec. 18	1177	330	25	1110
Garment-protector	J. M. Clark	271,037	Jan. 23	1493	430	23	305
Garment-stand	W. H. Knapp	288,452	Nov. 13	842	228	25	662
Garment-stand	W. H. Knapp	290,990	Dec. 25	2071	570	25	1270
Garment-stretcher	S. E. French	283,994	Aug. 28	1844	520	24	859
Garment-supporter	W. L. Braddock	278,493	May 29	2465	672	23	2079
Garment-supporter	B. J. Greely	287,020	Oct. 23	1573	434	25	303
Garment-supporter clasp	S. Wales	287,349	Oct. 23	1966	542	25	380
Gas and coke kiln	H. H. Hall	287,433	Oct. 30	2091	568	25	406
Gas and electric light fixture. Combined	S. B. H. Vance and C. H. Hinds	290,152	Dec. 11	960	272	25	1064
Gas and vapor from liquid hydrocarbons. Apparatus for generating	H. F. Hayden	277,567	May 15	1305	350	23	1861
Gas and water box for streets	A. W. Morgan	283,411	Aug. 21	1138	322	24	718
Gas apparatus	H. Cottrell	270,181	Jan. 2	414	121	23	84
Gas apparatus	J. Hanlon	269,929	Jan. 2	125	37, 38	23	26
Gas. Apparatus for administering nitrous-oxide	J. A. Donaldson	282,178	July 31	2344	646	24	428
Gas. Apparatus for administering nitrous-oxide	L. W. Nevius	283,137	Aug. 14	788	221	24	647
Gas. Apparatus for generating and carbureting hydrogen	S. B. Bashfield	282,492	Aug. 7	15	4	24	503
Gas. Apparatus for generating and carbureting hydrogen	W. Collings	282,169	July 31	2328	642	24	426
Gas. Apparatus for generating and carbureting hydrogen	L. S. Groves	273,679	Mar. 6	566	150	23	930
Gas. Apparatus for generating heating or illuminating	J. E. Leadley	289,278	Nov. 27	1845	509, 510	25	856
Gas. Apparatus for generating illuminating or heating	W. P. Patton	281,127	July 10	972	272	24	179
Gas. Apparatus for increasing the illuminating-power of	F. Weston	286,515	Oct. 9	916	247	25	177
Gas. Apparatus for making	H. D. Fitch	271,231	Jan. 30	1732	501	23	353
Gas. Apparatus for making	J. Hanlon	270,427	Jan. 9	732	215	23	152
Gas. Apparatus for manufacturing	G. W. Billings	272,848	Feb. 27	1617	452	23	746
Gas. Apparatus for manufacturing	A. B. Lipsey	282,204	July 31	2372	653	24	433
Gas. Apparatus for producing	E. J. Jerzmanowski	289,842	Dec. 11	593	164, 165	25	997
Gas. Apparatus for producing illuminating or heating	J. L. Stewart	282,399	July 31	2612	718	24	477
Gas. Apparatus for the manufacture of	J. E. Bicknell	284,801	Sept. 11	794	222	24	1045
Gas. Apparatus for the manufacture of	A. Binnie	282,695	Aug. 7	264	76	24	545

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Gas. Apparatus for the manufacture of	J. E. Dowson	278,107	May 22	1939	532	23	1980
Gas. Apparatus for the manufacture of	R. H. Smith	288,741	Nov. 20	1206	330	25	731
Gas. Apparatus for the manufacture of air	D. H. Martin	280,201	June 26	1943	546	23	2479
Gas. Apparatus for the manufacture of illuminating or heating	F. D. Moses	274,637	Mar. 27	1805	502	23	1168
Gas. Apparatus for the purification of coal	C. C. and W. T. Walker	272,804	Feb. 20	1537	432	23	725
Gas-brackets. Lighting and heating attachment for	I. W. Heysinger	271,708	Feb. 6	144	40	23	465
Gas-burner	J. G. Beale	286,170	Oct. 9	476	131	25	99
Gas-burner	O. B. Hall, Jr	284,631	Sept. 11	577	162	24	1008
Gas-burner	A. S. Harris	269,931	Jan. 2	128	38	23	27
Gas-burner	G. F. Huntington	283,606	Aug. 21	1370	383	24	760
Gas-burner	P. Keller	280,462	July 3	186	49	24	34
Gas-burner	J. C. Kelly	271,641	Feb. 6	70	19	23	452
Gas-burner	A. B. Lipsey	278,568	May 29	2551	696	23	2094
Gas-burner	A. B. Lipsey	282,337	July 31	2538	695	24	462
Gas-burner	C. J. Luther	285,049	Sept. 18	1103	307	24	1107
Gas-burner	E. B. Requa	275,708	Apr. 10	1092	298	23	1421
Gas-burner	E. B. Requa	275,709	Apr. 10	1094	299	23	1421
Gas-burner	J. A. Wilson	275,311	Apr. 3	547	148	23	1319
Gas burner and pipe pliers	P. Mihan	272,573	Feb. 20	1253	349	23	674
Gas-burner apparatus	G. S. Grimston	274,592	Mar. 27	1756	487	23	1158
Gas-burner check	W. G. Pugh	279,585	June 19	1229	341	23	2347
Gas-burner. Electric	C. H. Hinds	282,890	Aug. 7	497	140	24	568
Gas-burner. Electric-lighting	A. L. Bogart	282,043	July 31	2146	589	24	398
Gas-burner for heating and metallurgic purposes	J. E. Karns	288,445	Nov. 13	830	225	25	660
Gas-burner for heating purposes	J. Burton	284,814	Sept. 11	808	225, 226	24	1047
Gas-burners. Automatic safety-cock for	A. Archibald	277,975	May 22	1782	486	23	1952
Gas-burners. Base for	S. Nelson	271,653	Feb. 6	81	23	23	454
Gas-burners. Clock-holding attachment for	C. H. Shaw	272,983	Feb. 27	1777	497	23	772
Gas-burners. Cut-off for Argand	W. C. Boone and W. A. Whitfield	282,260	July 31	2436	670	24	445
Gas-burners. Exhibition-cabinet for	J. N. Chamberlain	273,952	Mar. 13	915	251	23	998
Gas-burning apparatus	J. W. Plunkett	280,666	July 3	392	109	24	69
Gas by electricity. Apparatus for lighting	H. J. Warren and H. F. Packard	284,784	Sept. 11	779	217	24	1041
Gas by electricity. Device for lighting	J. B. Odell	277,053	May 8	684	178	23	1749
Gas by electricity. Push-button and circuit for lighting	T. H. Rhodes	276,285	Apr. 24	1812	505	23	1561
Gas. Composition for preparing a heating and illuminating	U. K. Mayo	288,090	Nov. 6	372	.....	25	571
Gas-consuming furnace	G. Farr	286,286	Oct. 9	645	172	25	127
Gas-cooling apparatus	H. C. Rew	290,929	Dec. 25	1982	546	25	1256
Gas cut-off. Automatic	R. W. H. Kopp	289,274	Nov. 27	1840	508	25	855
Gas-engine	C. W. Baldwin	276,747	May 1	282	72	23	1673
Gas-engine	C. W. Baldwin	276,748	May 1	284	72, 73	23	1674
Gas-engine	C. W. Baldwin	276,749	May 1	285	73	23	1674
Gas-engine	C. W. Baldwin	276,750	May 1	288	74	23	1674
Gas-engine	C. W. Baldwin	276,751	May 1	291	74, 75	23	1675
Gas-engine	C. W. Baldwin	287,897	Nov. 6	135	40	25	531
Gas-engine	C. W. Baldwin	288,396	Nov. 13	776	209, 210	25	650
Gas-engine	C. W. Baldwin	290,310	Dec. 18	1166	326, 327	25	1108
Gas-engine	J. Charter	270,202	Jan. 9	441	130	23	97
Gas-engine	J. Charter	270,203	Jan. 9	445	131	23	98
Gas-engine	H. Denney	290,632	Dec. 18	1599	439	25	1182
Gas-engine	E. Etève and C. C. Lallement	272,130	Feb. 13	685	167	23	570
Gas-engine	J. A. Ewins	278,421	May 29	2374	648	23	2063
Gas-engine	E. J. Frost	273,269	Mar. 6	29	9	23	839
Gas-engine	W. Hammerschmidt	288,632	Nov. 20	1063	292	25	708
Gas-engine	G. M. Hopkins	284,555	Sept. 4	478	134	24	985
Gas-engine	G. M. Hopkins	284,556	Sept. 4	481	135	24	986
Gas-engine	G. M. Hopkins	284,557	Sept. 4	481	135	24	986
Gas-engine	G. M. and L. N. Hopkins	284,851	Sept. 11	851	239	24	1055
Gas-engine	J. F. Jackson and D. M. Kirkpatrick	283,398	Aug. 21	1125	318	24	716
Gas-engine	S. Marcus	286,030	Oct. 2	306	86, 87	25	57
Gas-engine	H. S. Maxim	273,750	Mar. 13	656	175, 176, 177	23	954
Gas-engine	H. S. Maxim	279,657	June 19	1300	361, 362	23	2359
Gas-engine	L. H. Nash	271,902	Feb. 6	381	105	23	508
Gas-engine	L. H. Nash	278,255	May 22	2133	588	23	2013
Gas-engine	L. H. Nash	278,256	May 22	2142	589	23	2014
Gas-engine	L. H. Nash	289,019	Nov. 27	1537	425	25	799
Gas-engine	L. H. Nash	289,691	Dec. 4	396	113, 114	25	956
Gas-engine	L. H. Nash	289,692	Dec. 4	402	114, 115	25	957
Gas-engine	L. H. Nash	289,693	Dec. 4	408	115, 116	25	957
Gas-engine	N. A. Otto	288,479	Nov. 13	880	238	25	669
Gas-engine	L. C. Parker. (Reissue)	10,290	Feb. 20	1607	450	23	737
Gas-engine	G. H. Reynolds	284,061	Aug. 28	1945	543	24	875
Gas-engine	G. H. Reynolds	284,328	Sept. 4	209	58	24	940
Gas-engine	G. H. Reynolds	287,578	Oct. 30	2284	619	25	444
Gas-engine	J. Robson	278,600	May 29	2585	706	23	2100
Gas-engine	C. Rohn	280,083	June 26	1816	511, 512	23	2456
Gas-engine	C. Shelburne	277,618	May 15	1363	367, 368	23	1871
Gas-engine	F. W. Turner	289,362	Nov. 27	1954	543	25	876
Gas-engine and air-compressor. Combined	L. H. Nash	278,168	May 22	2020	556	23	1993
Gas-engine and carbureting apparatus. Combined	H. L. Müller	288,952	Nov. 20	1456	401, 402	25	778

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Gas-engines. Apparatus for utilizing the waste heat of	J. V. Merrick	290,451	Dec. 18	1361	376	25	1141
Gas-engines. Electric igniting device for	L. C. Parker	287,855	Nov. 6	76	23	25	521
Gas-exhauster. Steam	J. E. Leadley and J. Hanlon	271,674	Feb. 6	348	97	23	502
Gas. Facilitating the passage of oil through pipes and making illuminating-	L. C. Snell	290,491	Dec. 18	1411	390	25	1151
Gas for electric lights. Apparatus for substituting	P. B. Delany	274,181	Mar. 20	1203	331	23	1056
Gas for illuminating and heating purposes. Apparatus for the manufacture of	A. P. Chamberlain	278,093	May 22	1925	528	23	1977
Gas from hydrocarbon oils. Apparatus for the manufacture of	H. H. Edgerton	274,443	Mar. 20	1549	425	23	1116
Gas from hydrocarbon oils. Manufacture of illuminating-	H. H. Edgerton	274,442	Mar. 20	1547	424	23	1116
Gas from hydrocarbons and utilizing the same in furnaces. Apparatus for generating	H. F. Hayden	274,597	Mar. 27	1762	489	23	1160
Gas-furnace	G. H. Baldwin. (Reissue)	10,329	May 22	2219	608	23	2027
Gas-furnace	H. F. Hayden	274,598	Mar. 27	1765	489	23	1160
Gas-furnace. Recuperator	J. F. Rittweger	289,308	Nov. 27	1884	525	25	864
Gas. Generating	E. J. Jerzmanowski	278,145	May 22	1993	548	23	1988
Gas-generating apparatus	N. M. Langdon	276,432	Apr. 24	2006	556	23	1594
Gas-generating apparatus	H. C. Shields	277,852	May 15	1633	445	23	1921
Gas-generating apparatus	W. H. Taylor	284,776	Sept. 11	763	212, 213	24	1040
Gas-generating furnace	H. B. Van Benthuysen	280,691	July 3	423	119, 120	24	75
Gas-generator	L. C. Beebe	290,627	Dec. 18	1590	437	25	1181
Gas-generator	F. A. Lyman	275,677	Apr. 10	1058	287	23	1415
Gas-generator	F. Philips	277,926	May 22	1723	470	23	1942
Gas-generator	A. Stein	283,297	Aug. 14	988	276	24	684
Gas-generator. Electric	C. E. Ball	272,187	Feb. 13	746	206	23	581
Gas-generator for furnaces	J. E. Bott	285,561	Sept. 25	1708	482, 483	24	1221
Gas-governor	T. C. and W. E. Hopper	283,245	Aug. 14	926	258	24	672
Gas-heater. Regenerative	C. E. Hequembourg	286,301	Oct. 9	662	176	25	130
Gas-holder. Equilibrated	J. F. Harrison	272,248	Feb. 13	822	229	23	595
Gas in gas-wells. Apparatus for regulating the flow and pressure of	W. E. Karns	288,446	Nov. 13	831	225	25	660
Gas-lighter	J. F. Carr	280,573	July 3	282	78	24	51
Gas-lighter. Electric	C. H. Crockett	281,345	July 17	1257	350	24	235
Gas-lighter. Electric	W. A. Drysdale	281,471	July 17	1418	389	24	262
Gas-lighter. Electric	T. H. Parker	286,481	Oct. 9	872	236	25	169
Gas lighting and extinguishing device. Electric	L. S. White	282,816	Aug. 7	406	115	24	572
Gas-lighting apparatus	J. H. Towan	280,689	July 3	421	119	24	75
Gas-lighting apparatus. Electric	R. Einbigler	278,898	June 5	301	87	23	2175
Gas-lighting burner. Electric	C. H. Crockett	271,805	Feb. 6	263	73	23	487
Gas-lighting burner. Electric	A. Lüngen	290,441	Dec. 18	1344	372	25	1139
Gas-lighting burner. Electric	D. Rousseau	285,682	Sept. 25	1853	529	24	1248
Gas-lighting burner. Electric	H. J. Warren	272,004	Feb 6	515	138	23	529
Gas-lighting. Electric	T. H. Rhodes	277,610	May 15	1354	365	23	1870
Gas-lighting system	V. Popp	283,020	Aug. 14	656	185	24	624
Gas-lights. Lighting and extinguishing	D. C. Baughman	287,218	Oct. 23	1825	500	25	350
Gas-machine	G. P. Judd	273,852	Mar. 13	794	215	23	978
Gas-machine	H. S. Maxim	275,060	Apr. 3	233	63, 64	23	1266
Gas-machine	L. Taylor	286,865	Oct. 16	1364	374	25	262
Gas-machine	J. S. Wood	288,752	Nov. 20	1219	333	25	734
Gas-machine	J. S. Wood	289,593	Dec. 4	278	78	25	936
Gas machine. Air-	J. P. Clifford	277,113	May 8	761	200	23	1762
Gas-making apparatus	F. C. Kniese	283,897	Aug. 28	1724	486, 487	24	835
Gas-making retort	M. Gross	277,270	May 8	944	253	23	1795
Gas. Manufacture of illuminating-	S. Hanford	273,068	Feb. 27	1875	527	23	789
Gas. Manufacturing	A. P. Chamberlain	286,589	Oct. 16	1016	275	25	201
Gas. Manufacturing illuminating-	T. G. Springer	287,185	Oct. 23	1779	488	25	343
Gas-meter	J. J. Myers	281,641	July 17	1626	444	24	296
Gas-motor	E. Körting and G. Lieckfeld	289,774	Dec. 4	497	138	25	972
Gas-motor	J. A. Serrell and G. M. Ward	285,169	Sept. 18	1249	350, 351	24	1132
Gas-motor engine	T. Ashbury, H. Sumner, W. Lees, and R. W. B. Sanderson.	282,832	Aug. 7	426	121	24	576
Gas-motor engine	C. G. Beechey	280,006	June 26	1719	481, 482	23	2439
Gas-motor engine	N. A. Otto	288,418	Nov. 13	879	238	25	668
Gas-motor engine	H. Sumner	278,198	May 22	2062	568, 569	23	2001
Gas or oil burner	J. N. Douglass	290,545	Dec. 18	1485	411	25	1163
Gas or vapor. Apparatus for producing illuminating	E. J. Frost	278,529	May 29	2508	685	23	2087
Gas or vapor engine	G. B. and W. B. Gray	287,666	Oct. 30	2404	648	25	467
Gas-pipes. Automatic stop-plug for	W. F. Cosgrove	288,777	Nov. 20	1244	342	25	739
Gas. Process of and apparatus for making	A. B. Lipsey	286,454	Oct. 9	844	229	25	164
Gas. Process of and apparatus for making heating and illuminating	T. M. Fell	288,701	Nov. 20	1149	316, 317	25	722
Gas. Process of and apparatus for manufacturing	J. H. Collins, Jr., and A. O. Granger	276,562	May 1	20	6	23	1630
Gas. Process of and apparatus for manufacturing	J. P. Gill	275,761	Apr. 10	1169	320, 321	23	1433
Gas. Process of and apparatus for manufacturing	A. O. Granger and J. H. Collins, Jr.	287,277	Oct. 23	1895	519	25	363
Gas. Process of and apparatus for manufacturing	J. Hanlon and J. E. Leadley	285,614	Sept. 25	1776	503, 504, 505, 506	24	1234
Gas. Process of and apparatus for manufacturing	J. Hanlon, J. E. Leadley, and S. Gibbs.	273,230	Feb. 27	2084	585, 586	23	896
Gas. Process of and apparatus for manufacturing	E. J. Jerzmanowski	278,146	May 22	1994	548	23	1989

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gas. Process of and apparatus for manufacturing ..	J. E. Leadley	289,279	Nov. 27	1847	510, 511, 512	25	856
Gas. Process of and apparatus for manufacturing ..	J. E. Leadley	289,280	Nov. 27	1850	513	25	857
Gas. Process of and apparatus for manufacturing ..	J. E. Leadley	289,281	Nov. 27	1853	514, 515	25	857
Gas. Process of and apparatus for manufacturing ..	H. M. Pierson	279,010	June 5	482	131, 132	23	2205
Gas. Process of and apparatus for manufacturing ..	H. C. Rew	290,926	Dec. 25	1974	545	25	1255
Gas. Process of and apparatus for manufacturing...	T. G. Springer	280,770	July 3	534	150, 151	24	94
Gas. Process of and apparatus for manufacturing...	T. G. Springer	284,965	Sept. 11	1006	284	24	1084
Gas. Process of and apparatus for manufacturing fixed	H. C. Rew	290,930	Dec. 25	1963	547, 548	25	1257
Gas. Process of and apparatus for manufacturing water-	W. W. Gibbs and J. Y. McClintock.	283,234	Aug. 14	910	254	24	669
Gas-pressure regulator	F. Piperberg	271,735	Feb. 6	177	48	23	471
Gas-producer	C. W. Siemens	282,387	July 31	2599	714	24	474
Gas-producer	C. W. Siemens	288,877	Nov. 20	1364	374, 375	25	760
Gas-producer	J. Zellweger	271,673	Feb. 6	105	28	23	458
Gas-producer	J. Zellweger	282,025	July 24	2121	581	24	387
Gas-producer and furnace operating in connection therewith.	C. W. Siemens	288,878	Nov. 20	1366	376, 377	25	761
Gas. Producing combustible	E. J. Jerzmanowski	289,914	Dec. 11	681	189	25	1012
Gas-purifier	H. C. Rew	290,928	Dec. 25	1981	546	25	1256
Gas-purifier screen or grid	J. R. Farnum	283,090	Aug. 14	732	205	24	638
Gas-purifying screen	E. M. Provonchar	272,582	Feb. 20	1961	352	23	675
Gas-regulator	L. Baumeister	282,150	July 31	2300	632	24	422
Gas-regulator	W. Carter	281,449	July 17	1392	382	24	257
Gas-regulator	J. S. De Palos	274,733	Mar. 27	1912	534	23	1188
Gas-regulator	P. Keller	270,079	Jan. 2	293	87	23	60
Gas-regulator	J. H. Luther	272,281	Feb. 13	864	242	23	602
Gas-regulator	J. H. Luther	272,282	Feb. 13	865	242	23	602
Gas-regulator	J. F. Maxson	286,326	Oct. 9	696	186	25	136
Gas-regulator. Automatic	M. J. Amick	290,727	Dec. 25	1729	477	25	1213
Gas-retort furnace	G. A. McIlhenny	284,458	Sept. 4	363	100, 101	24	965
Gas-retort furnace	R. Schlüter	275,276	Apr. 3	502	138, 139	23	1312
Gas-retorts. Device for fastening mouth-pieces to	J. Dell	275,162	Apr. 3	365	100	23	1289
Gas scrubber and exhauster. Rotary	R. B. McLain	282,346	July 31	2551	699	24	465
Gas scrubbing and washing apparatus	J. Laycock and T. Clapham	282,994	Aug. 14	610	173	24	616
Gas scrubbing or washing apparatus	W. R. Beal	283,192	Aug. 14	859	240, 241	24	639
Gas-tank for vessels. Safety	S. R. Brick	283,962	Aug. 28	1806	511	24	852
Gas-trap for sinks, urinals, &c	W. Moran	270,602	Jan. 16	959	278	23	205
Gas-tubing, &c. Compound for coating	S. Barr	276,998	May 8	610	.....	23	1737
Gas-valve. Automatic	H. A. Stearns	288,271	Nov. 13	603	165	25	620
Gas-works. Hydraulic main for	G. A. McIlhenny	282,345	July 31	2548	698, 699	24	465
Gases and vapors. Apparatus for the manufacture and application of	J. P. Gill	283,998	Aug. 28	1852	522, 523, 524	24	860
Gases and vapors for heating and illuminating purposes. Process of and apparatus for manufacturing	J. P. Gill	275,636	Apr. 10	1010	272, 273	23	1406
Gases and vapors. Process of and apparatus for manufacturing and delivering	J. P. Gill	284,002	Aug. 28	1867	525, 526	24	861
Gases. Apparatus for reducing the density of illuminating-	C. F. Hovey	273,843	Mar. 13	781	212	23	976
Gases or vapors. Apparatus for condensing	J. C. De La Vergne and W. M. Mixer.	275,367	Apr. 10	655	175	23	1346
Gaskets. Machine for cutting oval	J. H. Burnett	287,503	Oct. 30	2179	591, 592	25	423
Gasoliers and chandeliers. Apparatus for raising and lowering	M. Merichenski	273,576	Mar. 6	438	117	23	909
Gasometer	J. Hanlon	273,521	Mar. 6	360	96	23	895
Gate: *See* Automatic gate. Automatic driving-gate. Caisson-gate. Car guard-gate. Change-gate. Elevator-gate. Elevator safety-gate. End-gate. Farm-gate. Feed-gate. Flood-gate. Hatchway-gate. Railway-gate. Railway-crossing gate. Railway stock-gate. Railway-track gate. Safety-gate. Self-closing gate. Sewer-gate. Sliding gate. Sluice or flood gate. Swinging gate. Tilting gate. Turbine-wheel gate.							
Gate	D. and D. C. Baker	276,330	Apr. 24	1887	523, 524	23	1572
Gate	W. N. Bowers	287,361	Oct. 23	2000	545	25	382
Gate	D. M. Bridges	273,452	Mar. 6	273	74	23	879
Gate	J. H. Caldwell	276,769	May 1	313	81	23	1680
Gate	A. W. Chilcott	272,646	Feb. 20	1343	377	23	690
Gate	M. L. Cope	281,026	July 10	847	235	24	157
Gate	W. H. Cox	287,805	Nov. 6	19	6, 7	25	510
Gate	H. J. Elliott	290,554	Dec. 18	1499	413	25	1166
Gate	M. M. Gentaler	286,424	Oct. 9	811	230	25	158
Gate	D. Gibbons	270,565	Jan. 9	907	262	23	186
Gate	W. Gosshorn	285,611	Sept. 25	1774	502	24	1234

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gate	J. L. James	285,751	Sept. 25	1955	553	24	1265
Gate	W. R. Kramer	275,775	Apr. 10	1185	325	23	1437
Gate	I. L. Landis	270,957	Jan. 23	1406	405	23	291
Gate	I. L. Landis	284,441	Sept. 4	343	95	24	961
Gate	I. L. Landis and J. Riddel	280,632	July 3	353	98	24	62
Gate	L. N. Loveland	290,646	Dec. 18	1612	443	25	1185
Gate	W. Mason	288,088	Nov. 6	368	102	25	570
Gate	J. B. May	287,947	Nov. 6	200	58	25	542
Gate	J. N. McKay	289,433	Dec. 4	73	21	25	899
Gate	L. D. Meckley	272,739	Feb. 20	1455	408	23	710
Gate	C. J. Moore	285,830	Oct. 2	59	18	25	12
Gate	S. D. Muse	280,754	July 3	510	144	24	90
Gate	H. Oyler	271,109	Jan. 23	1582	455	23	320
Gate	S. Peterson	280,664	July 3	390	109	24	69
Gate	W. C. Pettis	275,262	Apr. 3	482	134	23	1308
Gate	J. Robinson	282,374	July 31	2583	709	24	471
Gate	B. Selting	285,689	Sept. 25	1861	531	24	1250
Gate	B. Smith	279,832	June 19	1500	419	23	2394
Gate	I. E. Smith	287,184	Oct. 23	1779	488	25	342
Gate	H. J. Stebbins	283,677	Aug. 21	1452	408	24	776
Gate	J. E. Stong	273,186	Feb. 27	2023	569	23	816
Gate	T. Sturgin	279,039	June 5	523	142	23	2212
Gate	A. J. Sweeney	281,647	July 17	1632	446	24	297
Gate	H. W. Taylor	285,524	Sept. 25	1668	470	24	1213
Gate	J. Thompson	282,238	July 31	2413	663	24	441
Gate	T. Urie	286,092	Oct. 2	383	106	25	70
Gate	J. B. Whiteman	290,509	Dec. 18	1441	398	25	1156
Gate	J. Zook	282,026	July 24	2124	582	24	387
Gate for sheep-feeding yards	J. W. Scott	285,686	Sept. 25	1858	530	24	1249
Gate-hanger	C. Daniel	286,912	Oct. 16	1428	392	25	272
Gear	G. White	290,299	Dec. 18	1148	322	25	1104
Gear and friction-clutch. Combined differential	B. S. Benson	285,213	Sept. 18	1297	365	24	1141
Gear. Bevel	A. Vivarttas	274,862	Mar. 27	2073	577	23	1214
Gear. Clutching, unclutching, and locking	H. L. Moulton	270,096	Jan. 2	308	91, 92	23	63
Gear-cutter	J. Brooks and W. Scully	276,346	Apr. 24	1903	528	23	1576
Gear-cutter	C. W. Crary	282,059	July 31	2170	595, 596	24	402
Gear-cutting machine	C. E. Albro	281,820	July 24	1876	512	24	346
Gear-cutting machine	A. H. Brainard	273,451	Mar. 6	271	73	23	879
Gear-molding device	H. C. Rasner and A. Walton	284,327	Sept. 4	208	58	24	939
Gear-wheel	B. F. Bergh	272,940	Feb. 27	1730	483	23	764
Gear-wheel	J. F. Gilliland	284,290	Sept. 4	164	46	24	932
Gear-wheel	B. F. Ortman	287,711	Oct. 30	2465	664	25	478
Gear-wheel	H. Stanley and N. Cornelius	277,802	May 15	1575	430	23	1910
Gear-wheel	H. W. Stone, Jr	288,134	Nov. 6	423	119	25	582
Gear-wheels. Machine for cutting teeth of metallic	C. E. Albro	281,819	July 24	1875	512	24	345
Gear-wheels. Tool for cutting the teeth of metal	A. Vivarttas	274,860	Mar. 27	2067	575	23	1214
Gearing	R. Campbell	290,855	Dec. 25	1889	521	25	1241
Gearing	G. Murray, Jr	286,550	Oct. 9	959	258	25	185
Gearing	E. W. Ross	275,861	Apr. 17	1301	358	23	1463
Gearing and ungearing mills and other machinery. Pinion-lifter or apparatus for	J. R. Underwood and G. W. Daniels	272,605	Feb. 20	1229	359	23	680
Gearing for changing speed	E. C. Worthen	278,070	May 22	1893	519	23	1971
Gearing for hoisting, &c. Differential	R. Lavery	281,195	July 10	1061	292	24	194
Gearing for hoisting, &c. Differential	R. Lavery	286,206	Oct. 9	521	144	25	106
Gearing-lubricator	H. Winter	276,987	May 1	583	155	23	1727
Gearing or pulley. Friction	J. P. Creighton	286,533	Oct. 9	939	253	25	181
Gearing-tooth	A. Vivarttas	274,861	Mar. 27	2069	576	23	1214
Gearing-tooth	A. Vivarttas. (Reissue)	10,381	Sept. 11	1024	287, 288	24	1087
Gelatine-coated sheets. Apparatus for stretching	O. Lelm	275,226	Apr. 3	442	123	23	1302
Gem-setting	D. F. Adams	270,921	Jan. 23	1353	390	23	293
Gem-setting for jewelry	C. A. Fowler	274,583	Mar. 27	1747	484	23	1157
Gems or precious stones. Manufacture of artificial	E. Chevassus-Clément	270,018	Jan. 2	226	66	23	47
Generator: *See* Electric generator. Electrical generator. Gas-generator. Hydrocarbon-generator. Hydrocarbon-vapor generator. Magneto-generator. Magneto-electric generator. Ozone-generator. Steam-generator. Vapor-generator. Vapor or gas generator. Vinegar-generator.							
Geodometer	S. Dewell	281,468	July 17	1414	388	24	261
Geometrical block	A. H. Kennedy	270,225	Jan. 9	475	139, 140	23	103
Gib	I. C. Shaw	276,484	Apr. 24	2070	575	23	1605
Gilling and hackling machines. Tooth for	W. Crabb	287,506	Oct. 30	2183	593	25	424
Gimp-pressing machine	J. S. Lynch and M. A. Heath	282,544	Aug. 7	82	23	24	514
Gin-house	J. W., A. J., and M. H. Baldwin, Jr., and G. A. Geise.	283,187	Aug. 14	853	238, 239	24	658
Girder and beam	P. H. Jackson	279,249	June 12	790	217, 218	23	2268
Girth. Saddle	A. Ayers	289,598	Dec. 4	284	79	25	937
Gland	J. S. Park and J. W. Graham	279,499	June 12	1112	307	23	2319
Glass and machine for producing the same. Art or method of indenting convex or spherical surfaces of	J. Locke	283,625	Aug. 21	1388	388	24	764
Glass-annealing furnace	D. G. Barnard	285,551	Sept. 25	1698	479	24	1220
Glass-annealing leer	C. W. Brockunier and D. C. Ripley	270,929	Jan. 23	1364	393, 394	23	285
Glass articles. Manufacture of	T. B. Atterbury	275,564	Apr. 10	913	247	23	1390
Glass articles. Manufacturing	W. M. Wallace	278,472	May 29	2438	665	23	2075
Glass articles. Mold for forming	T. B. Atterbury	275,562	Apr. 10	910	247	23	1390
Glass-batch mixer	G. S. Crotts	284,121	Aug. 28	2026	564	24	889

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Glass batch-mixer	R. G. Hemingray	290,771	Dec. 25	1784	493	25	1223
Glass-beveling machine	T. F. Gilroy	271,836	Feb. 6	306	83	23	494
Glass-blowing apparatus	A. L. Eliel	282,870	Aug. 7	474	133	24	564
Glass bowls for water-closets. Manufacture of	G. E. Hatch	286,000	Oct. 2	271	76	25	51
Glass buttons. Manufacture of	A. Hamann	285,125	Sept. 18	1195	335	24	1122
Glass caster-stand and mold	D. C. Ripley	278,745	June 5	86	25	23	2139
Glass caster stand and mold	D. C. Ripley. (Reissue)	10,397	Oct. 23	2052	558	25	391
Glass, china-ware, &c. Decorating	H. Schulze-Berge	276,896	May 1	463	.....	23	1707
Glass. Composition of matter for the manufacture of	R. B. Shepard	285,436	Sept. 25	1567	.....	24	1194
Glass. Compound for the manufacture of	T. H. Sindell and W. B. Stewartson	270,991	Jan. 23	1446	.....	23	298
Glass crock	A. B. Mills	287,846	Nov. 6	68	20	25	519
Glass-cutting frame	W. R. Rodman	270,847	Jan. 16	1260	363	23	261
Glass. Etching	E. Nienstädt	273,588	Mar. 6	452	.....	23	912
Glass for the manufacture of water, drain, and sewer pipes.	E. N. Higley	288,056	Nov. 6	334	.....	25	564
Glass. Form or mold for bending	A. P. De Vourney	280,143	June 26	1882	529	23	2468
Glass-furnace	E. Jones	281,697	July 24	1709	465	24	316
Glass-furnace	M. V. Smith	285,316	Sept. 18	1412	399	24	1163
Glass. Furnace for the manufacture of	J. A. King and J. Little	279,254	June 12	795	220	23	2269
Glass. Furnace for the manufacture of	N. B. Scott, L. Schaub, and H. Feurhake.	284,075	Aug. 28	1966	547, 548	24	878
Glass, &c. Furnace for melting	M. V. Smith	280,872	July 10	662	186, 187	24	124
Glass globe	J. Locke	288,582	Nov. 13	997	275	25	690
Glass globe and shade for gas-fixtures	A. N. Lindsley	273,371	Mar. 6	175	48	23	864
Glass grinding, smoothing, and polishing machine	T. Archer	286,672	Oct. 16	1124	302	25	220
Glass. Imitation stained	F. B. Herzog	286,434	Oct. 9	822	223	25	160
Glass. Imitation stained	E. E. Oudin	279,423	June 12	1021	283	23	2305
Glass lamp fonts or bowls. Ornamenting	W. Somerville	286,236	Oct. 9	555	152	25	112
Glass-lamp mold	A. H. Baggs	277,402	May 8	1096	294	23	1821
Glass lamps. Apparatus for making	W. L. Ewing	277,414	May 8	1110	298	23	1823
Glass lamps. Manufacture of	G. H. Lomax	288,715	Nov. 20	1166	320	25	724
Glass lamps, &c. Mold for manufacturing	T. B. Atterbury	275,563	Apr. 10	912	247	23	1390
Glass lamps. Ornamenting	G. H. Chinnock	272,946	Feb. 27	1736	485	23	765
Glass-lined metal can	A. M. Graves	274,934	Apr. 3	65	17	23	1236
Glass manufacture. Apparatus for	L. E. Pfeiffer	280,397	July 3	70	19	24	15
Glass. Manufacture of	H. Frank	285,888	Oct. 2	138	39	25	27
Glass. Manufacture of imitation stained	E. E. Oudin	284,659	Sept. 11	608	.....	24	1013
Glass. Marbleizing	W. S. Cogswell	283,861	Aug. 28	1682	475	24	858
Glass-melting furnace	G. W. Blair and J. Willetts	283,462	Aug. 21	1204	338	24	729
Glass-melting furnace	G. Leuffgen	270,594	Jan. 16	949	274, 275	23	903
Glass, metal, &c., for erosion. Preparing	J. Baynes	282,485	Aug. 7	7	.....	24	502
Glass-mold	A. Kribs	274,790	Mar. 27	1987	552	23	1300
Glass-mold and manufacture of glass articles	T. B. Atterbury	276,327	Apr. 24	1882	522, 523	23	1571
Glass-molding press	W. Werts	270,526	Jan. 9	860	250	23	178
Glass-pot	T. A. Zellers	287,355	Oct. 23	1991	543	25	380
Glass-press	W. M. Wallace	281,740	July 24	1767	480, 481	24	325
Glass press and mold	A. P. Brooke	275,984	Apr. 17	1442	397	23	1490
Glass. Production of enameled or metallized	J. Feix	276,014	Apr. 17	1476	.....	23	1496
Glass products. Manufacture of decorative	H. F. Miles	287,768	Oct 30	2546	685	25	493
Glass roof	W. Ward	279,465	June 12	1069	296	23	2313
Glass screw-caps. Mold for forming	W. M. Wallace	270,162	Jan. 2	395	114	23	80
Glass shade	W. H. Brunt	281,609	July 17	1589	435	24	290
Glass signal-globes. Manufacture of	D. C. Ripley	278,746	June 5	87	25	23	2139
Glass-silvering apparatus	J. Starr	277,803	May 15	1576	430	23	1910
Glass. Sizing for gilding on	F. R. Grout	282,629	Aug. 7	188	.....	24	533
Glass-smoothing machine	C. Barbour	289,747	Dec. 4	473	134	25	969
Glass stands and pedestals. Manufacture of	S. G. Vogeley	274,233	Mar. 20	1272	351	23	1069
Glass tiles for floors, &c. Mold for	L. D. Woodworth	286,984	Oct. 16	1519	417, 418	25	287
Glass to a backing. Securing	J. W. Hyatt and C. S. Lockwood	286,541	Oct. 9	950	256	25	183
Glass tumblers. Grinding the bases of	O. W. Minard	280,941	July 10	752	209	24	138
Glass-washer	J. Lehr	274,792	Mar. 27	1988	553	23	1200
Glasses, goblets, &c. Machine for grinding drinking-	P. E. Gauchot	284,834	Sept. 11	828	231, 242	24	1051
Glasses, mirrors, &c. Machine for grinding elliptical	G. Schwarz	276,084	Apr. 17	1560	430	23	1509
Glassware	J. Locke	282,002	July 24	2092	573	24	383
Glassware. Apparatus used in etching	M. Ward and W. H. Brunt	270,165	Jan. 2	398	115	23	61
Glassware. Crayon for etching	H. Schulze-Berge	283,424	Aug. 21	1160	.....	24	721
Glassware. Device for handling	D. A. Brown	275,130	Apr. 3	334	92	23	1283
Glassware. Etching	H. Schulze-Berge	276,893	May 1	459	.....	23	1707
Glassware. Etching	H. Schulze-Berge	276,894	May 1	461	.....	23	1707
Glassware. Etching	H. Schulze-Berge	276,895	May 1	463	.....	23	1707
Glassware manufacture. Blown-	E. H. Childs and C. R. Powell	275,999	Apr. 17	1457	402	23	1493
Glassware. Manufacture of	W. M. Wallace	275,298	Apr. 3	530	145	23	1316
Glassware. Manufacture of covered	T. Walton	286,096	Oct. 2	392	107, 108	25	72
Glassware. Manufacture of open-ended	C. Challinor, Jr.	275,996	Apr. 17	1454	401	23	1493
Glassware-mold	W. H. Brunt	281,610	July 17	1590	435	24	290
Glassware. Mold for pressing articles of	J. B. Lyon	285,496	Sept. 25	1633	459	24	1207
Glassware. Ornamenting	H. Schulze-Berge	276,897	May 1	465	.....	23	1707
Glassware. Process of and device for etching and decorating	H. Schulze-Berge	283,423	Aug. 21	1156	.....	24	721
Glassware. Tool for finishing hollow	H. Dietrich	285,345	Sept. 18	1448	408	24	1168
Glassware. Tool for forming the open ends of hollow	J. Willetts and W. Buttlear	280,546	July 3	251	68	24	45
Glazing-bar	C. H. Pennycook	275,261	Apr. 3	481	134	23	1308
Glazing the roofs of horticultural structures	T. W. Helliwell	284,421	Sept. 4	322	89	24	957
Gleaner and binder	M. G. Hubbard	281,367	July 17	1285	356	24	239
Globe. Automatic time-	A. Jackson	273,092	Feb. 27	1914	536, 537	23	796
Globe. Time-	S. Moore and G. A. Hadley	270,329	Jan. 9	597	176	23	121

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Glove	A. C. Butts	290,664	Dec. 25	1640	451	25	1196
Glove	J. J. Kennedy	279,955	June 26	1661	467	23	2428
Glove	M. King	272,384	Feb. 13	1002	280	23	625
Glove	H. Urwick	276,310	Apr. 24	1844	513 514	23	1566
Glove	R. Raymond	282,667	Aug. 7	229	66, 67	24	539
Glove	E. V. Whitaker	284,150	Aug. 28	2064	572	24	894
Glove and mitten	E. Schoonmaker	289,792	Dec. 4	519	144	25	976
Glove and other fastener	E. F. Rate	275,854	Apr. 17	1291	355	23	1462
Glove. Aquatic	G. Ashman	286,106	Oct. 2	401	110	25	74
Glove-blank	J. A. Holbrook and G. Montgelas	283,605	Aug. 21	1367	382	24	760
Glove-fastener	G. E. Adams	275,796	Apr. 17	1225	335	23	1451
Glove-fastener	D. T. Chambers	281,969	July 24	2057	564	24	377
Glove-fastener	J. Hubbard	274,606	Mar. 27	1775	493	23	1162
Glove-fastener	E. J. Kraetzer	290,067	Dec. 11	860	244	25	1045
Glove-fastener	G. W. Mandrill	274,507	Mar. 27	1649	459	23	1140
Glove-fastening	W. S. Richardson	276,714	May 1	238	60	23	1665
Glove-finishing apparatus	A. C. Calderwood	276,768	May 1	312	81	23	1680
Glove. Grooming	R. W. Thompson	277,173	May 8	840	222	23	1776
Glove-holder	E. A. Franklin	273,502	Mar. 6	331	89	23	890
Glove-lacing	A. C. Mather	281,541	July 17	1500	412	24	276
Glove or mitten	L. Hoffman	280,823	July 10	605	169	24	113
Gloves, &c. Fastener for	D. T. Chambers	272,945	Feb. 27	1736	485	23	765
Gloves, &c. Fastener for	A. N. Cohen	270,019	Jan. 2	227	66	23	47
Gloves, &c. Fastener for	E. J. Kraetzer	281,376	July 17	1294	358	24	241
Gloves. Lacing	W. F. Foster	277,558	May 15	1294	348	23	1860
Gloves. Lacing	W. F. Foster	277,559	May 15	1295	348	23	1860
Gloves, shoes, &c. Fastening for	G. A. Lange	287,135	Oct. 23	1713	469	25	331
Glucose. Converting starch into	J. W. Decastro	279,354	June 12	930	.....	23	2291
Glucose. Manufacture of	A. G. Fell	270,042	Jan. 2	253	.....	23	52
Glucose. Manufacture of	H. J. Krebs	288,245	Nov. 13	565	157	25	615
Glucose or grape-sugar. Manufacture of	H. W. Bartol	276,334	Apr. 24	1892	.....	23	1573
Glucose, sugar, or similar articles. Machine for cutting blocks or cakes of solidified	C. C. Miller	277,320	May 8	1007	270	23	1805
Glue, &c. Apparatus for drying	W. A. Hoeveler	276,405	Apr. 24	1975	547	23	1588
Glue. Coloring	G. J. Lesser	276,609	May 1	81	.....	23	1642
Glue compound	C. M. Atkinson	282,034	July 31	2134	.....	24	396
Glue cutting and spreading machine	J. Schneible	282,930	Aug. 7	536	151	24	596
Glue-heater	W. C. Weatherly	280,540	July 3	245	66	24	44
Glue-size. Manufacture of	G. J. Lesser	276,608	May 1	81	.....	23	1642
Glue-stock washer	W. A. Hoeveler	276,040	Apr. 17	1511	416	23	1501
Gluing-machine	L. D. Norton	290,094	Dec. 11	891	253	25	1051
Gluten from the waste water of starch-works. Apparatus for extracting	C. D. Chase	289,979	Dec. 11	755	213	25	1027
Glycerine. Apparatus for the manufacture of	O. Laist	286,448	Oct. 9	838	227	25	163
Glycerine. Extracting	B. T. Babbitt	275,976	Apr. 17	1429	394	23	1488
Glycerine. Extracting	E. O. Baujard	278,849	June 5	241	.....	23	2164
Glycerine. Extracting	E. O. Baujard	280,894	July 10	686	.....	24	128
Glycerine from fatty matter. Extracting	M. Ams and V. Litzelmann	272,510	Feb. 20	1169	.....	23	659
Glycerine from the mother-liquor of soap-factories. Production of	J. K. Kessler	277,575	May 15	1315	.....	23	1863
Glycerine from the waste soap-liquor of soap-manufacture. Extracting	J. P. Battershall	276,551	May 1	8	.....	23	1628
Glycerine. Manufacture of	T. G. Walker	283,936	Aug. 28	1776	502	24	846
Glycerine obtained by the decomposition of fatty matters. Treating waters containing	E. Baujard	280,893	July 10	685	.....	24	128
Gold and silver from their ores and in forming amalgams. Method and apparatus employed in extracting	B. C. Malloy	290,259	Dec. 18	1094	305	25	1096
Gold and silver from their ores. Apparatus for extracting	R. Barker	273,011	Feb. 27	1810	507	23	778
Gold and silver from their ores. Apparatus for extracting	R. Barker	276,997	May 8	699	160	23	1736
Gold and silver from their ores. Apparatus for washing and separating	W. J. Tanner	285,523	Sept. 25	1666	469	24	1213
Gold and silver ores. Roasting and disintegrating	D. W. Birmingham	283,461	Aug. 21	1203	.....	24	729
Gold and silver ores. Roasting and disintegrating	D. W. Birmingham. (Reissue)	10,400	Nov. 6	496	.....	25	594
Gold for jewelry. Manufacture of	G. and F. Hartje	281,059	July 10	886	.....	24	164
Gold-leaf-carrying apparatus. Gilder's	C. A. Wright	289,486	Dec. 4	144	40	25	911
Gold-separating apparatus	J. A. Cable	274,083	Mar. 13	1073	296	23	1096
Gold-separator	N. Seymour	270,492	Jan. 9	804	234	23	167
Gold-separator	H. C. Walker and W. Bacon	288,520	Nov. 13	925	253	25	676
Gold-separator. Dry	S. C. Chaney	285,111	Sept. 18	1179	330 331	24	1120
Gold-washer	C. S. Betts and H. E. Wilson	279,122	June 12	652	178	23	2245
Gold-washer	J. P. Spencer	272,788	Feb. 20	1517	428	23	721
Gold washer and amalgamator	G. W. Kirk	270,813	Jan. 16	1222	352	23	254
Gold-washing machine	C. D. Lane	275,777	Apr. 10	1188	326	23	1437
Gong. Street-car	C. H. White	271,176	Jan. 23	1669	480	23	324
Governor	R. W. Gardner	287,822	Nov. 6	40	12	25	514
Governor	W. B. Mason	274,625	Mar. 27	1791	498	23	1165
Governor	L. O. Orton	288,728	Nov. 20	1192	325	25	728
Governor	H. Tabor	276,304	Apr. 24	1838	512	23	1565
Governor	E. Wright	283,842	Aug. 28	1661	469	24	925
Governor and cut-off. Automatic	H. H. Buffum	273,250	Mar. 6	10	3, 4	23	836
Governor and valve-gear	L. Skinner	287,879	Nov. 6	110	33	25	527
Governor attachment. Steam-engine	W. J. Buchanan	287,620	Oct. 30	2349	634	25	455
Governor. Cotton-gin-feed	J. D. Flannagan	279,367	June 12	954	265	23	2294
Governor cut-off-valve gear	I. W. Bragg	277,983	May 22	1794	489	23	1953
Governor. Electric	E. B. Parkhurst	286,841	Oct. 16	1337	365 366	25	257
Governor. Engine	G. H. Reynolds	285,679	Sept. 25	1849	528	24	1948
Governor. Engine-valve	S. E. Jarvis	273,999	Mar. 13	969	266	23	1008
Governor for mechanical powers	J. G. Rufe	276,080	Apr. 17	1556	429	23	1509

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Governor for railway-heads. Hygrometric	G. A. Ayers	278,488	May 29	2456	669 670	23	2078
Governor for steam-engines. Automatic	T. A. Grist	277,710	May 15	1469	397	23	1890
Governor for steam-engines. Speed	J. D. Willoughby	282,480	Aug. 7	1	1	24	501
Governor. Marine-engine	C. C. Dow	279,861	June 19	1538	430	23	2400
Governor regulator. Engine	J. Williams	288,146	Nov. 6	433	122	25	583
Governor. Speed	J. C. Henry	270,430	Jan. 9	734	216	23	152
Governor. Speed	P. Wells	271,287	Jan. 30	1806	524	23	366
Governor. Speed	P. Wells	271,288	Jan. 30	1807	524	23	366
Governor. Steam	T. Malcolmson	289,427	Dec. 4	66	19	25	898
Governor. Steam	T. Malcolmson	289,428	Dec. 4	67	19	25	898
Governor. Steam-engine	F. H. Ball	284,164	Sept. 4	4	4	24	905
Governor. Steam-engine	H. R. Barnhurst and L. Skinner	289,801	Dec. 11	534	149	25	966
Governor. Steam-engine	M. I. Beaudreau	274,553	Mar. 27	1706	474	23	1150
Governor. Steam-engine	W. H. Craig	271,315	Jan. 30	1839	534	23	372
Governor. Steam-engine	C. J. Galloway and J. H. Beckwith.	289,246	Nov. 27	1812	501	25	849
Governor. Steam-engine	C. S. Haskell	285,892	Oct. 2	146	41	25	29
Governor. Steam-engine	H. C. Hunt	270,546	Jan. 9	884	256	23	182
Governor. Steam-engine	S. E. Jarvis	280,042	June 26	1771	497	23	2447
Governor. Steam-engine	W. Knowles	279,097	June 5	599	163	23	2296
Governor. Steam-engine	W. Knowles	282,908	Aug. 7	515	144	24	592
Governor. Steam-engine	T. Malcolmson	270,684	Jan. 16	1065	305	23	223
Governor. Steam-engine	J. W. Nystrom	272,307	Feb. 13	887	248 249	23	607
Governor. Steam-engine	J. M. Smith	282,789	Aug. 7	376	106	24	566
Governor. Steam-engine	N. W. Williames	280,984	July 10	298	222	24	147
Governor. Steam-engine ball	W. E. Badger	278,387	May 29	2334	638	23	2056
Governor-valve	W. E. Badger	289,954	Dec. 11	720	203	25	1020
Governor. Water-wheel	D. and A. Narracong	274,811	Mar. 27	2009	559	23	1204
Grab-operating mechanism. Counterbalance attachment to	C. W. Maclean	270,598	Jan. 16	953	276	23	204
Grader and scraper. Road	A. L. Griffith	276,393	Apr. 24	1963	543	23	1586
Grader and scraper. Road	P. Raab	288,261	Nov. 13	567	162	25	618
Grader. Road	S. Pennock	270,693	Jan. 16	1077	309	23	226
Grading and ditching machine	W. J. Edwards and G. B. Durkee	275,614	Apr. 10	975	265 266	23	1401
Grading and leveling machine	J. M. Buckley	282,701	Aug. 7	285	80	24	549
Grading-machine	L. C. Gandy	288,420	Nov. 13	802	218	25	655
Grading-machine	H. T. Hays	276,583	May 1	53	15	23	1637
Grading-machine	G. H. Waldo	278,296	May 22	2193	603 604	23	2022
Grafting-tool	K. McLennan	285,910	Oct. 2	167	48	25	33
Grain and offal drier	R. E. Schroeder	273,767	Mar. 13	691	185	23	960
Grain and seed cleaning mill	W. Bowen	272,637	Feb. 20	1333	374	23	688
Grain and seed separator and grader	W. Tate and W. T. Johnson	290,944	Dec. 25	2002	552	25	1960
Grain. Apparatus for the conversion of unmalted	E. Luck	278,985	June 5	450	123 124	23	2200
Grain. Apparatus for the gradual reduction of	W. D. Gray	271,331	Jan. 30	1861	540 541	23	375
Grain. Apparatus for the reduction of	H. F. Saint Requier	277,790	May 15	1561	425	23	1908
Grain, &c. Apparatus for transferring	L. Smith	289,316	Nov. 27	1891	527	25	865
Grain-binder	W. Aldrich	274,692	Mar. 27	1874	522	23	1180
Grain-binder	H. Amundson and A. Olson	279,309	June 12	860	239 240	23	2280
Grain-binder	J. F. Appleby	275,114	Apr. 3	304	85, 86	23	1278
Grain-binder	J. F. Appleby	276,519	Apr. 24	2114	587 588	23	1612
Grain-binder	H. D. W. Bailey	283,456	Aug. 21	1196	336	24	728
Grain-binder	H. D. W. Bailey	283,457	Aug. 21	1198	336	24	728
Grain-binder	W. R. Baker	283,744	Aug. 28	1542	436 437	24	804
Grain-binder	J. P. Bullock	272,828	Feb. 20	1566	440	23	730
Grain-binder	J. P. Bullock	274,883	Mar. 27	2101	584	23	1218
Grain-binder	J. P. Bullock	286,899	Oct. 16	1410	387 388	25	969
Grain-binder	W. W. Burson	273,811	Mar. 13	738	200 201 202	23	969
Grain-binder	A. S. Clow	274,909	Apr. 3	90	6	23	1230
Grain-binder	J. S. Davis	274,441	Mar. 20	1537	423 424	23	1114
Grain-binder	J. Deering and D. R. Symonds	274,111	Mar. 20	1116	308	23	1040
Grain-binder	O. Ferguson	286,799	Oct. 16	1282	346	25	247
Grain-binder	E. S. Frost	280,461	July 3	159	43, 44	24	29
Grain-binder	J. F. Gordon	283,096	Aug. 14	740	207 208	24	639
Grain-binder	R. M. Hunter	273,089	Feb. 27	1906	534 535	23	794
Grain-binder	E. W. Jenkins	271,074	Jan. 23	1543	445	23	314
Grain-binder	E. W. Jenkins	280,481	July 3	184	49	24	34
Grain-binder	S. A. Jones	280,379	July 3	47	13	24	11
Grain-binder	J. O. Lee	279,773	June 19	1428	399 400	23	2382
Grain-binder	C. W. Levalley	282,335	July 31	2536	695	24	462
Grain-binder	C. Lidren	287,694	Oct. 30	2440	656 657	25	474
Grain-binder	D. McPherson	279,101	June 5	607	165 166	23	2227
Grain-binder	J. H. O'Hara	272,150	Feb. 13	702	193	23	573
Grain-binder	P. J. Olson	273,761	Mar. 13	678	182 183	23	958
Grain-binder	N. T. Remy	276,469	Apr. 24	2054	570	23	1602
Grain-binder	J. F. Steward	272,597	Feb. 20	1277	356	23	678

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Grain-binder	J. F. Steward	272,598	Feb. 20	1279	357	23	678
Grain-binder	R. E. Strait	288,509	Nov. 13	914	250	25	674
Grain-binder	W. Van Horn	273,325	Mar. 6	106	31, 32	23	852
Grain-binder	J. W. Webster	278,639	May 29	2640	722	23	2109
Grain-binder	C. Whitney	279,297	June 12	845	234, 235, 236	23	2277
Grain-binder	C. Whitney	283,179	Aug. 14	838	234, 235	24	656
Grain-binder	W. J. Wilkes	285,330	Sept. 18	1428	403, 404	24	1165
Grain-binder	G. L. Williams and J. Dunstedter	279,210	June 12	745	204, 205	23	2260
Grain-binder. Automatic	G. F. Green	277,709	May 15	1466	395, 396	23	1890
Grain-binder band-securing mechanism	J. S. Davis	279,092	June 5	573	158	23	2222
Grain-binder band-securing mechanism	J. S. Davis	282,445	July 31	2676	734	24	488
Grain-binder bundle-discharger	J. R. Severance	277,356	May 8	1047	281	23	1813
Grain-binder cord grasper and cutter	A. Savage	274,828	Mar. 27	2027	564	23	1207
Grain-binder cord-knotter	J. B. McLeran	270,324	Jan. 9	591	174	23	125
Grain-binder cord-knotting apparatus	W. W. Burson	273,812	Mar. 13	744	202, 203	23	970
Grain-binder cord-tying device	M. E. Blood	278,063	May 22	1907	522, 523, 524, 525	23	1974
Grain-binder gaveling mechanism	J. S. Davis	283,866	Aug. 28	1687	476	24	899
Grain-binder knot-tying device	N. Jewett	284,430	Sept. 4	331	92	24	959
Grain-binder knotting-hook	G. G. Hunt	290,184	Dec. 11	995	281	25	1071
Grain-binder knotting mechanism	E. L. Bracken	270,378	Jan. 9	665	195	23	139
Grain-binder knotting mechanism	P. F. Hodges	286,819	Oct. 16	1306	355, 356	25	252
Grain-binder knotting mechanism	P. F. Hodges	286,820	Oct. 16	1308	356, 357	25	252
Grain-binder. Straw-band	H. Tuttle	280,335	June 26	2117	593, 594, 595	23	2509
Grain-binder twine-box	J. F. Appleby	290,658	Dec. 25	1632	449	25	1195
Grain-binder twine tension and take-up device	N. T. Remy	274,822	Mar. 27	2021	563	23	1206
Grain-binders. Bundle-discharging device for	C. M. Young	285,540	Sept. 25	1686	475	24	1217
Grain-binders. Bundle holder and dropper for	M. F. Sanders	273,317	Mar. 6	97	29	23	850
Grain-binders, &c. Endless carrier for	J. R. Severance	283,671	Aug. 21	1444	404, 405	24	775
Grain-binders. Feeding and packing mechanism for	J. R. Severance	281,570	July 17	1533	420, 421	24	281
Grain-binding apparatus	C. Lidren	287,695	Oct. 30	2442	657, 658	25	474
Grain-binding machine	G. Esterly	278,524	May 29	2501	683	23	2086
Grain-binding machine	G. Esterly	281,623	July 17	1607	440	24	293
Grain-binding machine	J. Howard and E. T. Bousfield	274,772	Mar. 27	1967	547, 548	23	1197
Grain-binding machine	P. J. Olson	273,760	Mar. 13	673	180, 181	23	957
Grain-binding machines. Cord-tyer for	N. Jewett	277,739	May 15	1497	406	23	1895
Grain-carrier platform	W. R. Steiner	290,716	Dec. 25	1715	473	25	1210
Grain-cleaner	J. Burkholder	272,905	Feb. 13	770	213	23	585
Grain-cleaner	J. E. Cummins	274,468	Mar. 27	1580	434	23	1130
Grain-cleaner	J. Russell	284,489	Sept. 4	399	112	24	972
Grain cleaner, separator, and grader	W. E. Wild	275,104	Apr. 3	294	81	23	1277
Grain cleaner, separator, and grader	W. E. Wild	275,105	Apr. 3	296	81	23	1277
Grain-cleaning apparatus	W. Shaw	272,782	Feb. 20	1508	425	23	719
Grain-cleaning machine	J. R. Reynolds	284,672	Sept. 11	629	178	24	1016
Grain-cleaning machine	C. F. Shumaker	273,174	Feb. 27	2011	565, 566	23	814
Grain-cleaning machine. Split	L. Gathmann	283,480	Aug. 21	1224	344, 345	24	733
Grain-conveyer	F. Bierce	286,764	Oct. 16	1239	334, 335	25	240
Grain cooler and drier	S. P. Cook	271,604	Feb. 6	25	7	23	445
Grain-cutting machine	W. Eberhard	283,981	Aug. 28	1828	516	24	856
Grain-cutting machine	R. L. Phelps	287,463	Oct. 30	2129	578	25	414
Grain-cutting machine	R. L. Phelps	287,464	Oct. 30	2130	578	25	414
Grain-cutting machine	H. E. Pryor	279,594	June 19	1228	341	23	2347
Grain-cutting machine	S. K. White	286,980	Oct. 16	1513	416	25	286
Grain-decorticating machine	J. Jürt	274,002	Mar. 13	972	267	23	1008
Grain-decorticator	S. Dodson	277,998	May 22	1815	496	23	1957
Grain-drier	A. E. Clutter	283,970	Aug. 28	1815	513	24	854
Grain-drier	J. Gregory and V. Lapham	288,428	Nov. 13	812	220	25	657
Grain-drier	J. C. Jacoby	286,203	Oct. 9	518	143	25	106
Grain-drier	J. C. Slaughter	282,013	July 24	2105	577	24	384
Grain drier and cooler	W. Beebe	284,266	Sept. 4	135	38	24	927
Grain-drill	A. C. Conner	282,847	Aug. 7	446	126	24	579
Grain-drill	M. F. Connett	289,893	Dec. 11	654	182	25	1008
Grain-drill	J. Conway	284,186	Sept. 4	34	9	24	910
Grain-drill	C. O. Gardiner	271,445	Jan. 30	2010	580	23	403
Grain-drill	H. Kuhleman	290,245	Dec. 18	1079	302	25	1093
Grain-drill	J. R. Rude and H. G. Swope	274,662	Mar. 27	1836	510, 511	23	1174
Grain-drill	J. R. Rude and H. G. Swope	276,474	Apr. 24	2059	572	23	1603
Grain-drill	S. B., G. W., and J. R. Rude	275,862	Apr. 17	1302	358	23	1464
Grain-drill	A. and M. Runstetler	285,363	Sept. 18	1469	414	24	1172
Grain-drill	A. and M. Runstetler	287,779	Oct. 30	2559	689	25	495
Grain-dri	W. P., Jr., and W. P. Shortridge	279,027	June 5	506	137, 138, 139	23	2209

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Grain-drill	J. Smith	279,033	June 5	514	140	23	2211
Grain-drill	H. C. Starr and W. C. Vanneman	271,533	Jan. 30	2123	611	23	492
Grain-drill and corn-planter. Combined	J. L. Reed	281,558	July 17	1519	417	24	279
Grain-drill and cotton-planter. Space	J. D. Foster and V. C. Harris	270,048	Jan. 2	258	75	23	53
Grain-drill and fertilizer-distributer	D. F. Hull	282,456	July 31	2691	739	24	490
Grain-drill attachment	R. S. Carr and J. W. Soe	274,459	Mar. 27	1572	430	23	1198
Grain-drill attachment	H. C. Pratt	284,572	Sept. 4	504	141, 142	24	989
Grain-drill fertilizer attachment	L. M. Watkins	285,711	Sept. 25	1896	538, 539	24	1255
Grain-drill. Fertilizing	A. C. Hendricks	272,547	Feb. 20	1209	338	23	666
Grain-drill gearing	J. King	270,317	Jan. 9	578	170	23	123
Grain-drill hoe	E. D. Mead	280,496	July 3	200	53	24	36
Grain-drill. Walking	G. W., J. R., and S. B. Rude, and H. G. Swope.	274,661	Mar. 27	1834	509, 510	23	1173
Grain-drills. Force-feed fertilizer attachment for	S. B. Hart	277,719	May 15	1476	399	23	1892
Grain-drills. Variable feed device for	W. F. Marks	277,306	May 8	991	266	23	1803
Grain. Drying	F. Schumacher	281,402	July 17	1327	367, 368	24	247
Grain drying and cleaning and building-ventilating apparatus.	M. A. Shepard	273,900	Mar. 13	851	230	23	987
Grain-drying and coffee-roasting apparatus	W. W. Dunn	284,728	Sept. 11	704	197	24	1030
Grain drying and cooling shelf	H. Cutler	277,686	May 15	1442	389	23	1885
Grain-drying machine	L. V. Moulton	288,357	Nov. 13	711	195	25	639
Grain-drying process and appliance	E. Thompson	290,719	Dec. 25	1719	474	25	1211
Grain-elevator	A. Bardeen	283,189	Aug. 14	855	239	24	659
Grain-elevator	J. B. Pelton	274,817	Mar. 27	2018	561	23	1205
Grain-elevator	M. F. Seeley	288,371	Nov. 13	737	200, 201	25	643
Grain-elevator	N. G. Simonds	281,572	July 17	1537	421	24	282
Grain-elevator	J. E. Walsh	284,263	Sept. 4	132	37	24	927
Grain-elevator	W. Watson	281,214	July 10	1085	298, 299	24	198
Grain-elevator	W. Watson	282,424	July 31	2648	726, 727	24	483
Grain-elevator	W. Watson	282,425	July 31	2650	727	24	483
Grain-elevator	W. Watson	282,812	Aug. 7	402	114	24	571
Grain-elevator	W. Watson	287,595	Oct. 30	2312	625	25	449
Grain elevator and weigher. Portable	M. Scanlan and J. T. Hough	271,134	Jan. 23	1610	463	23	325
Grain elevator, conveyer, and cleaner. Combined pneumatic	M. Randolph	276,879	May 1	442	119	23	1704
Grain-elevator. Pneumatic	J. Lewis	285,047	Sept. 18	1100	307	24	1106
Grain, hay, &c. Process of and device for stowing and curing	O. W. Kendall	288,943	Nov. 13	563	156	25	614
Grain-header	E. Hickman	286,436	Oct. 9	825	223, 224	25	160
Grain-header	J. A. Rumrill	289,144	Nov. 27	1692	469	25	896
Grain hulling and cleaning machine	S. K. Todd	290,288	Dec. 18	1137	319	25	1102
Grain hulling and granulating machine	G. S. Cranson	283,212	Aug. 14	883	246	24	664
Grain. Machine for dampening or wetting	J. Miller	278,996	June 5	466	128	23	2203
Grain. Machine for reducing wheat and other	O. H. Titus	286,973	Oct. 16	1503	413	25	285
Grain. Machine for the gradual reduction of	W. D. Gray	283,339	Aug. 14	1041	293	24	694
Grain, meal, &c. Machine for separating	J. Damp	282,707	Aug. 7	292	82, 83	24	550
Grain-meter	H. Griffith and L. F. Ramsey	287,535	Oct. 30	2216	602	25	431
Grain-meter	G. B. Lynch	283,351	Aug. 14	1064	299	24	699
Grain-meter	G. B. Lynch and T. J. Griffith	270,821	Jan. 16	1230	355	23	255
Grain-meter. Automatic	G. W. Sharp	286,645	Oct. 16	1087	293, 294	25	213
Grain-meter. Automatic	E. M. Thorpe	281,164	July 10	1013	283, 284	24	186
Grain. Mode of and mechanism for cleaning	W. L. Teter	286,744	Oct. 16	1215	328	25	235
Grain, ores, &c. Apparatus for pulverizing	F. Taggart	283,830	Aug. 28	1647	464	24	822
Grain. Process of and apparatus for cleaning	W. L. Teter. (Reissue)	10,275	Jan. 23	1702	492	23	339
Grain purifier and separator	C. F. A. Gramke	274,589	Mar. 27	1753	486, 487	23	1158
Grain-scourer	S. Hanson and J. S. Leas	276,966	May 1	565	147	23	1723
Grain scourer and polisher	J. J. Souder	277,950	May 22	1751	477, 478	23	1946
Grain-scourers. Cylinder for	J. H. Chase	288,309	Nov. 13	642	176	25	628
Grain-screen	J. D. Belton	279,215	June 12	749	203	23	2261
Grain-screen	C. E. Gage	287,657	Oct. 30	2393	645	25	465
Grain-separator	D. Best	270,001	Jan. 2	209	60	23	43
Grain-separator	J. B. Birdsell	278,082	May 22	1906	522	23	1974
Grain-separator	H. Campbell	287,756	Oct. 30	2525	681	25	489
Grain-separator	W. Crain	282,705	Aug. 7	290	82	24	550
Grain-separator	M. Forder and T. H. Pendergast	284,405	Sept. 4	301	84	24	954
Grain-separator	J. H. Loudenbeck	279,491	June 12	1102	304	23	2317
Grain-separator	W. Macy	290,592	Dec. 18	1544	425	25	1173
Grain-separator	J. Russell	284,490	Sept. 4	401	112	24	972
Grain-separator	P. Van Gelder	282,415	July 31	2634	722, 723	24	480
Grain-separator	J. M. Welbourn	281,589	July 17	1559	437	24	285
Grain-separator	M. Wilcox	272,178	Feb. 13	736	203	23	579
Grain separator and cleaner	J. M. Laurenson, S. M. Stadon, and H. Laurenson.	270,816	Jan. 16	1225	354	23	255
Grain separator and cleaner	H. Parish	287,154	Oct. 23	1737	476	25	335
Grain separator and grader	P. Van Gelder	281,808	July 24	1859	508	24	343
Grain-separator hopper	J. Root	284,333	Sept. 4	216	60	24	941
Grain-separator riddle	J. H. Bell	280,007	June 26	1792	482	23	2430
Grain-separator shoe	A. H. Johnson	289,915	Dec. 11	682	180	25	1012
Grain-separators. Blast-regulator for	J. J. Moran	289,436	Dec. 4	77	22	25	900
Grain-shovel	M. W. Hanley	276,684	May 1	194	50	23	1657
Grain-shovel mechanism	J. S. Metcalf	278,993	June 5	460	126, 127	23	2202
Grain-shovel mechanism. Automatic	C. Rinderknecht	270,485	Jan. 9	795	232	23	165

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Grain steaming and drying machine	L. V. Moulton	286,217	Oct. 9	533	146	25	108
Grain. Stowage of	T. F. Seery	288,500	Nov. 13	903	246	25	679
Grain-transfer apparatus. Pneumatic and automatic	L. Smith	279,034	June 5	517	141	23	2211
Grain-transferring apparatus. Mouth-piece for	L. Smith	289,315	Nov. 27	1890	526	25	865
Graining machine. Wood-	E. Brillinger	288,302	Nov. 13	634	174	25	626
Graining-tool	J. Hammerl	273,519	Mar. 6	359	95	23	895
Graining-tool	J. Hammerl	285,999	Oct. 2	270	76	25	51
Grapple	R. L. Betts	276,658	May 1	147	38	23	1651
Grapple	J. W. Raymond	270,482	Jan. 9	793	232	23	165
Grapple	A. Sanford	283,422	Aug. 21	1155	327	24	721
Grapple	R. Stone	271,538	Jan. 30	2131	613	23	423
Grapple. Bowlder-	J. Marshall	271,490	Jan. 30	2074	597	23	414
Grapple. Pipe-	E. K. Green	281,492	July 17	1446	395	24	266
Grappling device	A. J. Goenell	272,953	Feb. 27	1744	487	23	766
Grappling device	S. C. Swett and A. McCreary	269,971	Jan. 2	176	51	23	36
Grappling-hook for barrels, &c.	S. Van Patten	270,158	Jan. 2	390	113	23	79
Grappling-ring	C. H. Miller and W. P. Harrison	278,165	May 22	2017	555	23	1993
Grate	J. Ballou	286,574	Oct. 16	996	270	25	197
Grate	L. Bannister	272,514	Feb. 20	1173	328	23	660
Grate	L. Bannister	272,515	Feb. 20	1174	328	23	660
Grate	L. Bannister	272,937	Feb. 27	1727	482	23	763
Grate	L. Bannister	273,437	Mar. 6	254	68, 69	23	877
Grate	T. C. Joy	279,250	June 12	791	218, 219	23	2268
Grate	J. Kroupa	286,140	Oct. 2	441	120	25	82
Grate	F. M. Lawrence	282,333	July 31	2534	694	24	462
Grate	T. H. Lucas	277,754	May 15	1519	412	23	1900
Grate	L. Merriman	285,425	Sept. 25	1556	438	24	1192
Grate	G. B. Mershon	276,616	May 1	86	24	23	1643
Grate	G. B. Mershon	281,384	July 17	1301	360	24	243
Grate	J. R. Robertson	290,476	Dec. 18	1392	385	25	1147
Grate	T. Rosser	288,864	Nov. 20	1348	370	25	758
Grate	S. D. Spence	278,191	May 22	2049	563	23	1998
Grate	W. A. Spicer	270,499	Jan. 9	814	238	23	169
Grate and lining	C. T. Barnes	281,658	July 24	1655	451	24	307
Grate attachment	J. C. Ogletree	270,246	Jan. 9	497	147	23	107
Grate. Automatic adjustable	F. A. Knox	279,770	June 19	1426	398, 399	23	2381
Grate-bar	J. Elliott	290,872	Dec. 25	1906	526	25	1244
Grate-bar	W. H. Heeson	282,192	July 31	2360	650	24	431
Grate-bar	A. C. Mann	275,679	Apr. 10	1060	287	23	1415
Grate-bar	J. Ritchie	272,773	Feb. 20	1499	422	23	718
Grate-bar	C. Smith and J. Hutchinson	286,083	Oct. 2	374	103	25	68
Grate-bar	G. W. Walker. (Reissue)	10,296	Mar. 13	1093	301	23	1029
Grate-bar. Air-feeding	C. J. M. Hayne	276,178	Apr. 24	1682	465	23	1538
Grate-bar for furnaces, &c	J. F. Newton, Jr	271,508	Jan. 30	2095	602	23	418
Grate-cleaner	H. C. Beardsley and J. M. Hopson	272,194	Feb. 13	754	208	23	589
Grate. Fire-	P. Rexford	283,144	Aug. 14	796	222	24	648
Grate. Fire-	B. S. Wash	277,526	May 15	1254	337	23	1854
Grate. Fire-place	A. Chase	286,176	Oct. 9	487	135	25	101
Grate. Fire-place	S. Watt	282,813	Aug. 7	404	114	24	571
Grate. Rotary	J. O'Keefe	284,471	Sept. 4	376	105	24	968
Grate. Self-feeding fire-	S. Russell	275,525	Apr. 10	866	234	23	1382
Grate. Shaking-	C. B. Boynton	278,864	June 5	263	76	23	2168
Grate. Shaking	J. H. McKeown	289,680	Dec. 4	381	109	25	954
Grate. Shaking and dumping	T. J. Thompson, Jr	282,684	Aug. 7	251	73	24	543
Grater. Nutmeg-	G. Wilson and E. B. Loback	274,073	Mar. 13	1060	292	23	1024
Grater. Vegetable-	H. Rogers	284,487	Sept. 4	397	111	24	971
Grating. Window-	L. N. Byar	284,117	Aug. 28	2022	562, 563	24	888
Grave receptacle or vault	J. Logan	275,833	Apr. 17	1265	348	23	1457
Grease-cup	B. F. Ortman and L. G. Gilbert	278,172	May 22	2028	557	23	1994
Grease-trap	J. Tucker	286,975	Oct. 16	1505	414	25	285
Grease-trap	S. Wilcox	280,545	July 3	250	67	24	45
Grease-trap for sinks	J. Tucker	285,770	Sept. 25	1980	561	24	1268
Griddle. Cake-	O. R. Hanchett	271,842	Feb. 6	311	85, 86	23	495
Griddle or pan lubricator	J. Potter	279,181	June 12	717	196	23	2256
Grinding and decorticating mill	R. H. Minister	284,466	Sept. 4	372	103	24	967
Grinding and graining device	C. N. Morris	279,001	June 5	470	129	23	2204
Grinding and polishing machine	W. B. Fenn	282,293	July 31	2468	680	24	451
Grinding and polishing machine	E. R. Ware	287,744	Oct. 30	2508	676	25	486
Grinding and polishing machine	E. R. Ware	289 323	Nov. 27	1907	530	25	868
Grinding and polishing wheel	J. H. Madden	287,144	Oct. 23	1726	472	25	333
Grinding apparatus. Portable	M. Lennon	287,447	Oct. 30	2109	573	25	409
Grinding-machine	A. Campbell	282,049	July 31	2156	591, 592	24	399
Grinding-machine	J. M. Haigis	286,429	Oct. 9	816	221, 222	25	159
Grinding-machine	A. W. McIntyre	288,718	Nov. 20	1172	321, 322	25	725
Grinding-machine	J. Rentz	282,225	July 31	2395	659	24	438
Grinding-machine	I. N. Smith	281,151	July 10	1000	280	24	183
Grinding metal plates. Machine for	T. Settle	286,855	Oct. 16	1354	370, 371	25	260
Grinding-mill	J. Beall	274,703	Mar. 27	1885	525	23	1182
Grinding-mill	J. M. Collier	270,747	Jan. 16	1145	328	23	239
Grinding-mill	T. O. Cutler	281,030	July 10	855	237	24	158
Grinding-mill	L. M. Devore and D. C. Stover	269,923	Jan. 2	117	35, 36	23	24
Grinding-mill	G. W. Doolittle	276,570	May 1	34	9, 10	23	1633
Grinding-mill	J. Fitzgerald	285,777	Sept. 25	1993	564	24	1270
Grinding-mill	C. A. Fredericks	282,068	July 31	2182	600	24	404
Grinding-mill	H. J. Hammond and H. S. Wilson	285,031	Sept. 18	1086	303	24	1104
Grinding-mill	E. G. Hastings	278,954	June 5	417	114	23	2195
Grinding-mill	D. R. Hoopes	281,072	July 10	906	253	24	167

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gun. Breech-loading	W. H. Davenport	290,751	Dec. 25	1765	487	25	1219
Gun. Breech-loading	G. W. Hadley	275,377	Apr. 10	669	179	23	1348
Gun. Breech-loading	L. L. Hepburn	290,426	Dec. 18	1328	368	25	1136
Gun. Breech-loading bomb	E. Pierce. (Reissue)	10,392	Oct. 9	990	267	25	190
Gun. Breech-loading composite	J. H. McLean and M. Coloney	282,548	Aug. 7	87	24, 25, 26	24	515
Gun-carriage	J. Vavasseur	273,199	Feb. 27	2039	573, 574	23	819
Gun-case	E. B. Bronson	290,205	Dec. 18	1030	290	25	1085
Gun feeder. Machine	J. G. Accles	290,622	Dec. 18	1583	435, 436	25	1180
Gun for destroying animals	E. A. Crepin and F. Rochat	274,279	Mar. 20	1330	367	23	1079
Gun-lock	A. T. Brown	289,062	Nov. 27	1596	442	25	809
Gun-lock safety attachment	J. Deyo	290,867	Dec. 25	1901	525	25	1243
Gun-lock safety attachment	D. B. Wesson	289,875	Dec. 11	630	175	25	1003
Gun. Machine	B. B. Hotchkiss. (Reissue)	10,280	Feb. 6	524	141	23	531
Gun. Machine	J. H. McLean	282,551	Aug. 7	92	27, 28	24	516
Gun. Machine	J. H. McLean	282,553	Aug. 7	97	29	24	517
Gun. Machine	J. H. McLean and M. Coloney	282,549	Aug. 7	88	26, 27	24	515
Gun. Machine	F. M. Shields	282,787	Aug. 7	374	106	24	566
Gun. Magazine	P. Boch	272,636	Feb. 20	1330	373	23	688
Gun. Magazine	P. Boch	276,522	Apr. 24	2120	589, 590	23	1613
Gun. Magazine	J. M. and M. S. Browning	282,839	Aug. 7	434	123	24	577
Gun. Magazine	J. H. Bullard	287,229	Oct. 23	1839	503	25	352
Gun. Magazine	H. Carr	281,341	July 17	1253	348	24	234
Gun. Magazine	M. Coloney	282,490	Aug. 7	27	8	24	505
Gun. Magazine	J. H. McLean	282,552	Aug. 7	94	28	24	516
Gun. Magazine	J. H. McLean	282,554	Aug. 7	99	30	24	517
Gun. Magazine	J. Nemetz	273,131	Feb. 27	1959	551	23	805
Gun. Magazine	J. P. Simmons and S. Adams	275,065	Apr. 3	271	74	23	1272
Gun. Needle	J. M. and H. Villa	277,385	May 8	1076	290	23	1818
Gun-rest	J. E. V. Leerbech and F. D. Volkersen.	271,251	Jan. 30	1753	507	23	357
Gun-rod. Jointed	L. Keller	275,050	Apr. 3	218	59	23	1263
Gun-sight	J. C. Kelton	280,484	July 3	187	49	24	35
Gun. Spring	S. E. Clark	288,548	Nov. 13	955	262	25	682
Gun-stock	S. N. Stevens	279,841	June 19	1510	422	23	2396
Gun. Three-barreled	W. T. Davis	278,688	June 5	17	5	23	2127
Gun-wad	F. G. Farnham	288,168	Nov. 6	462	129	25	588
Gun-wad	E. Redmond	274,378	Mar. 20	1457	399	23	1101
Gun-wad	O. F. Seibold	271,527	Jan. 30	2117	609	23	422
Gun-wiper	C. S. Leet	288,459	Nov. 13	852	230	25	664
Gun-wiper. Extension	J. S. Birch	276,660	May 1	149	38	23	1651
Gun. Wire-wound	B. B. Hotchkiss	269,936	Jan. 2	133	40	23	2[illegible]
Gun. Wire-wound	W. E. Woodbridge	271,561	Jan. 30	2157	621	23	428
Guns and projectiles. Charging	W. T. Chamberlain	279,540	June 19	1167	323	23	2336
Guns. Auxiliary rifle-barrel for	H. T. Martin	271,883	Feb. 6	356	99	23	503
Guns. Cartridge-feeder for machine	L. F. Bruce	273,249	Mar. 6	8	3	23	836
Guns. Detachable magazine for magazine	H. Borchardt	273,448	Mar. 6	268	72	23	879
Guns. Ejector for magazine	J. M. Marlin	271,091	Jan. 23	1563	450	23	317
Guns. Extractor for breakdown	J. Maloney	271,645	Feb. 6	74	20	23	453
Guns. Loading-gate for magazine	W. Trabue	276,308	Apr. 24	1843	513	23	1566
Guns. Mounting	A. Preusser	281,643	July 17	1627	445	24	297
Gunpowder. Manufacture of	N. Wiard	273,209	Feb. 27	2058	578, 579	23	892
Gymnastic chair	W. E. Kelly	284,024	Aug. 28	1905	534	24	868
Hair-crimper	J. A. Clother	273,957	Mar. 13	920	252	23	999
Hair-crimper	J. D. Woodbury	283,183	Aug. 14	847	237	24	657
Hair-crimping tool	W. A. Hance	278,944	June 5	408	111	23	2193
Hair from and into rope. Machine for untwisting and spinning	J. Spaulding	276,492	Apr. 24	2080	578	23	1607
Hair-front	N. S. Stowell	279,990	June 26	1699	477	23	2435
Hair. Grape-vine	H. Hufnagel	279,389	June 12	984	273	23	2299
Hair head-dress or wave	M. E. Thompson	276,306	Apr. 24	1941	512	23	1565
Hair-holder	H. E. Thorpe	284,341	Sept. 4	221	63	24	942
Hair-pin	B. F. Teal	269,897	Jan. 2	88	26	23	19
Hair-pin package	E. P. Haff	276,031	Apr. 17	1500	412	23	1499
Hair rooter, knitter, and hackle	M. Campbell	281,834	July 24	1891	516	24	349
Hair-springs. Manufacture of	J. Logan	287,448	Oct. 30	2109	574	25	409
Hair-springs. Muffle for tempering	F. H. Corthell	283,700	Aug. 21	1479	417	24	782
Hair to the action of heated vapors. Device for exposing	D. G. Griffin	278,129	May 22	1975	543	23	1985
Hair-tonic	G. A. Leip	285,045	Sept. 18	1090	.....	24	1106
Hair-tonic	A. Miles	289,922	Dec. 11	689	.....	25	1014
Hair-tonic	J. A. Shattuck	277,165	May 8	830	.....	23	1774
Hair-tonic	W. M. Stark and F. George	284,918	Sept. 11	930	.....	24	1070
Hair-waves. Making	J. M. Baxter	289,957	Dec. 11	724	204	25	1020
Halter	R. H. Armstrong	281,952	July 24	2034	556	24	373
Halter	J. W. B. Carpenter	285,012	Sept. 18	1057	296	24	1090
Halter	E. A. Cooper	284,540	Sept. 4	463	131	24	983
Halter	A. G. Garfield	286,602	Oct. 16	1033	280	25	204
Halter	R. Melling	275,686	Apr. 10	1069	291	23	1417
Halter	R. Porter	280,237	June 26	1993	561	23	2487
Halter	H. Rorebeck	288,595	Nov. 13	1016	279	25	694
Halter	E. P. Sears	277,354	May 8	1046	280	23	1813
Halter	J. Thornton	277,380	May 8	1071	289	23	1817
Halter	C. S. Upton	283,539	Aug. 21	1288	360	24	744
Halter-clasp	F. A. Thomas	273,191	Feb. 27	2030	571	23	818
Halter-fastening device	J. Gibbons	278,931	June 5	391	107	23	2190
Halter-loop fastening	J. Gibbons	286,808	Oct. 16	1291	350	25	249
Halter-strap fastener	J. Gibbons	279,561	June 19	1191	330	23	2340
Halter-trimming	E. A. Cooper	284,541	Sept. 4	464	132	24	983
Halter-trimming	O. P. Letchworth	272,715	Feb. 20	1423	399	23	704

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hame	L. Carr	270,577	Jan. 16	926	267	23	198
Hame	P. Hayden	287,282	Oct. 23	1903	520	25	364
Hame	P. Hayden and A. A. Boyd	272,251	Feb. 13	825	230	23	586
Hame	W. B. Hayden	270,429	Jan. 9	733	216	23	152
Hame	L. E. Jones	273,096	Feb. 27	1920	537	23	797
Hame	C. Lange	281,526	July 17	1484	407	24	273
Hame	J. S. Mitchell	287,954	Nov. 6	206	60	25	543
Hame	J. A. Outlaw	287,571	Oct. 30	2270	615	25	441
Hame	T. H. Pendergast	280,853	July 10	639	180	24	119
Hame	J. P. Quinette	283,815	Aug. 28	1634	460	24	820
Hame	C. Roehl	289,028	Nov. 27	1554	429	25	902
Hame	C. E. Smith	276,912	May 1	484	127	23	1711
Hame	A. Waggoner	282,245	July 31	2420	665	24	442
Hame	R. B. Whitzel	279,510	June 12	1127	312	23	2282
Hame	R. B. Whitzel	279,511	June 12	1127	312	23	2282
Hame	R. B. Whitzel	282,819	Aug. 7	411	116	24	573
Hame	R. B. Whitzel	287,398	Oct. 23	2046	556	25	390
Hame	J. A. Wilson	277,818	May 15	1590	435	23	1913
Hame. Adjustable	C. Roehl	285,844	Oct. 2	76	23	25	16
Hame and collar fastener	J. F. Becker	290,661	Dec. 25	1638	450	25	1196
Hame attachment	C. H. Allen	272,183	Feb. 13	742	205	23	580
Hame attachment	G. J. Letchworth	275,228	Apr. 3	445	124	23	1302
Hame-fastener	G. Banks	280,554	July 3	260	70	24	47
Hame-fastener	G. P. Bishop	272,021	Feb. 13	545	147	23	547
Hame-fastener	J. R. Finly	276,963	May 1	563	146	23	1722
Hame-fastener	J. Hudson	271,247	Jan. 30	1749	506	23	356
Hame-fastener	A. Niccum	285,428	Sept. 25	1558	439	24	1193
Hame-fastener	H. Tay	281,582	July 17	1551	424	24	284
Hame-fastening. Metal	E. D. Fisher	288,322	Nov. 13	662	183	25	631
Hame-strap fastener	R. G. Hanford, Jr.	274,763	Mar. 27	1954	543	23	1195
Hame-tip	T. Brabson	282,261	July 31	2437	670	24	445
Hammer	G. W. Cook	283,379	Aug. 21	1107	312	24	712
Hammer	C. J. Grellner	275,645	Apr. 10	1022	276	23	1408
Hammer	C. J. Grellner	282,308	July 31	2496	685	24	455
Hammer	H. O. Hooper	271,709	Feb. 6	146	40	23	465
Hammer	H. Wiedmann	281,217	July 10	1090	300	24	199
Hammer and box opening and scraping device. Combined	J. J. Wylie	281,818	July 24	1874	512	24	345
Hammer and box-scraper	F. A. Cowles	275,025	Apr. 3	192	51	23	1258
Hammer. Atmospheric	J. C. Butterfield	285,389	Sept. 25	1509	424	24	1184
Hammer. Atmospheric	J. C. Butterfield	285,390	Sept. 25	1510	424	24	1185
Hammer. Atmospheric	J. C. Butterfield	290,850	Dec. 25	1863	520	25	1240
Hammer. Blacksmith's	A. Anderson	273,793	Mar. 13	719	195	23	966
Hammer. Bush-	H. D. Martin	281,092	July 10	925	258	24	171
Hammer. Bush-	A. Nelson	271,731	Feb. 6	172	47	23	470
Hammer. Drop-	N. C. Stiles	270,146	Jan. 2	375	109	23	76
Hammer. Drop-	N. C. Stiles. (Reissue)	10,394	May 8	1145	308	23	1829
Hammer. Foot-power	A. Standish	280,969	July 10	782	217	24	143
Hammer. Power-	A. Beaudry	281,001	July 10	816	227, 228	24	151
Hammer. Power-	J. C. Butterfield	285,387	Sept. 25	1506	423	24	1184
Hammer. Steam-	E. B. Meatyard	290,449	Dec. 18	1354	374, 375	25	1140
Hammer. Steam-	F. B. Miles	288,840	Nov. 20	1390	382	25	752
Hammers. Die and die-block for forge-	J. H. Baker	280,998	July 10	813	226	24	150
Hammers. Helve of power-	C. W. Willard	285,718	Sept. 25	1907	541	24	1257
Hammock	D. H. Blascow and S. Fichtner	277,829	May 15	1605	438	23	1915
Hammock	J. Fichtner	276,234	Apr. 24	1751	485	23	1550
Hammock	C. E. Hiester	278,431	May 29	2389	652	23	2066
Hammock	B. Morton	285,299	Sept. 18	1395	394	24	1159
Hammock	F. A. Nelson	269,876	Jan. 2	62	19	23	15
Hammock	I. E. Palmer	270,836	Jan. 16	1249	359	21	259
Hammock	I. E. Palmer	270,837	Jan. 16	1250	360	23	259
Hammock	I. E. Palmer	272,311	Feb. 13	894	250	23	608
Hammock	I. E. Palmer	272,312	Feb. 13	896	251	23	608
Hammock	A. Pratt	273,388	Mar. 6	197	53	23	867
Hammock	G. W. Rich	280,061	June 26	1814	510	23	2455
Hammock and method of making the body of the same	A. O. Rood	277,161	May 8	826	218	23	1773
Hammock-carriage	H. H. Reed	269,881	Jan. 2	67	20, 21	23	16
Hammock or bed	C. Moore	273,756	Mar. 13	667	178	23	956
Hammock or bed-bottom	I. E. Palmer	271,510	Jan. 30	2098	603	23	418
Hammock-support. Folding	J. F. Pluche	290,921	Dec. 25	1968	543	25	1254
Hammocks. Spreading-stick for	J. H. Bates	271,767	Feb. 6	218	61	23	478
Hand-bag frame	G. Crouch	282,850	Aug. 7	450	127	24	580
Hand-bag or satchel	T. A. Freeman	281,482	July 17	1436	393	24	264
Hand-drill	D. F. Barber	284,799	Sept. 11	793	221	24	1044
Hand-drill	J. H. Hoague	281,068	July 10	898	250	24	166
Hand-protector	J. Doyle	276,231	Apr. 24	1745	484	23	1549
Hand-rail for stairways	T. Simonson	287,968	Nov. 6	227	64	25	547
Hand-rake	W. F. Drew	286,120	Oct. 2	417	114	25	77
Hand-rake	L. A. Schaeffer	289,567	Dec. 4	247	69	25	930
Hand-relief. Writer's	J. N. Wilson	282,595	Aug. 7	146	43	24	596
Hand-rest for books	C. H. Metz	286,051	Oct. 2	333	92	25	61
Handle: *See* Ax-handle. Basket-handle. Brush-handle. Coffin-handle. Cover-handle. Dipper-handle. File-handle. Knife-handle. Knife or tool handle. Mower-handle. Pestle-handle. Saw-handle. Tea-kettle handle. Tool-handle. Tub-handle. Umbrella and parasol handle. Valve-handle.							
Handle	J. E. Merriman	271,095	Jan. 23	1568	451	23	317
Handle attachment	H. P. Hood	275,914	Apr. 17	1362	375	23	1475

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Handle for carrying bundles, &c	W. G. Grimm	275,902	Apr. 17	1348	371	23	1473
Handle for files and other tools	J. F. French	285,987	Oct. 2	256	72	25	49
Handle for files and other tools	J. F. French	285,988	Oct. 2	257	73	25	49
Handle for files and other tools	J. F. French	285,991	Oct. 2	260	73	25	49
Handle for files, &c	J. F. French	288,045	Nov. 6	322	91	25	562
Handle for files, &c	J. F. French	288,046	Nov. 6	323	91	25	562
Handle for files, &c	J. F. French	288,047	Nov. 6	324	91	25	562
Handle for satchels, bags, &c	E. Simon	270,852	Jan. 16	1963	364	23	962
Handle guard. Ax and tool	G. P. Morrill	289,123	Nov. 27	1667	462	25	822
Handle hooks. Machine for forming tub	J. H. Dunbar	281,984	July 24	2072	568	24	380
Handles to vessels of enameled ironware. Attaching	F. G. and W. F. Niedringhaus	286,627	Oct. 16	1068	287	25	210
Hanger: *See* Car-door hanger. Carboy-hanger. Carriage-body hanger. Curtain-hanger. Door-hanger. Eaves-trough hanger. Garment-hanger. Grindstone-hanger. Hat and coat hanger. Picture-frame hanger. Seed-corn hanger. Shaft-hanger. Shafting-hanger. Wall-paper hanger.							
Harmonic atttachment for key-boards	J. F. Clifford and E. Corbett	274,464	Mar. 27	1576	432, 433	23	1129
Harness	J. Beha	285,379	Sept. 25	1496	421	24	1169
Harness	P. J. Grandy	290,038	Dec. 11	830	234	25	1039
Harness	V. Smith	271,933	Feb. 6	424	116	23	515
Harness	E. P. Thornton	281,738	July 24	1765	480	24	325
Harness	J. Weirick	276,105	Apr. 17	1591	439, 440	23	1515
Harness and box-loop press	T. W. Morse	275,843	Apr. 17	1280	351	23	1460
Harness and vehicle loop	E. Crawley and C. H. Albrecht	273,820	Mar. 13	755	205	23	971
Harness attachment	F. M. Boring	288,614	Nov. 20	1038	286	25	704
Harness attachment	S. Hemphill	286,004	Oct. 2	277	78	25	52
Harness back-band hook	O. Pitts	272,767	Feb. 20	1491	419	23	716
Harness-back-band hook	W. C. Sherard	288,128	Nov. 6	415	118	25	580
Harness breast-chain	W. Rudolph, Sr	282,011	July 24	2103	576	24	384
Harness breast-strap slide	J. A. Park	272,753	Feb. 20	1474	414	23	713
Harness breeching-stay	R. P. Pearson	283,417	Aug. 21	1145	324	24	719
Harness. Carriage-	W. Mulloy	272,897	Feb. 27	1682	470	23	756
Harness chafe-pad	C. W. Burgtorf	286,260	Oct. 9	590	161	25	118
Harness check-hook	A. C. Dietz	288,696	Nov. 20	1144	315	25	721
Harness check-hook	G. W. Fish	270,406	Jan. 9	701	207	23	146
Harness. Chime attachment for	W. H. Nichols	284,885	Sept. 11	888	250	24	1062
Harness. Controlling-strap for	G. Kinnier, Jr	284,563	Sept. 4	488	137	24	987
Harness-coupling	A. P. Gross	274,487	Mar. 27	1625	451	23	1136
Harness-coupling. Adjustable	L. Wartenberg	278,474	May 29	2440	666	23	2075
Harness-hook	S. R. Jarvis	274,782	Mar. 27	1977	550	23	1198
Harness line-holder	A. J. Larson	288,246	Nov. 13	566	157	25	615
Harness-loop	W. W. Bishop	263,559	Aug. 21	1318	368	24	750
Harness-loop	J. S. Ginger	279,741	June 19	1396	390	23	2376
Harness-loop	J. Kearwille, Jr	289,269	Nov. 27	1836	507	25	854
Harness-loop	H. A. Pott	270,477	Jan. 9	789	230	23	164
Harness-loop	C. F. G. Stender	279,609	June 19	1243	345	23	2340
Harness or hame link	J. J. Kelly	277,290	May 8	974	261	23	1800
Harness-pad	J. F. Heesel	286,435	Oct. 9	824	223	25	160
Harness-pad	E. Kettering	277,291	May 8	974	262	23	1800
Harness-pad	R. J. Welles	270,711	Jan. 16	1099	315	23	230
Harness pad and tree	M. E. Zeller	274,078	Mar. 13	1067	294	23	1025
Harness-pad block	G. E. Bauder and A. M. Pease	278,079	May 22	1903	521	23	1973
Harness-pad machine	R. J. Welles	284,696	Sept. 11	663	186	24	1022
Harness-pad plate	D. McMillan	271,500	Jan. 30	2086	600	23	416
Harness-pad press	E. Carpenter	271,417	Jan. 30	1973	570	23	396
Harness-pad press	L. H. Urner	283,305	Aug. 14	997	280	24	686
Harness-pad press	F. M. White	276,946	May 1	539	159	23	1718
Harness pad-tree	H. G. Albrecht and C. Nielson	284,160	Sept. 4	1	1	24	905
Harness-pads. Machine for crimping	R. J. Welles	270,712	Jan. 16	1100	315	23	230
Harness-pads. Press for making	J. B. Noe	280,225	June 26	1978	556	23	2485
Harness pole-ring	D. Kirk	274,615	Mar. 27	1783	495	23	1164
Harness. Single	C. W. Burgtorf	290,530	Dec. 18	1470	406	25	1160
Harness-straps. Machine for channeling	T. K. Clark	283,570	Aug. 21	1332	372	24	753
Harness-suspender. Automatic	J. Knibbs	274,501	Mar. 27	1641	456	23	1139
Harness tail-piece and rein-protector	C. H. Mead, Jr	272,895	Feb. 27	1681	470	23	756
Harrow	K. Anunsen	274,249	Mar. 20	1294	356	23	1072
Harrow	S. Anderson	282,692	Aug. 7	262	75	24	544
Harrow	J. H. Barley	270,536	Jan. 9	871	253	23	180
Harrow	E. R. Bernhamer	273,246	Mar. 6	4	1	23	835
Harrow	C. A. Brostrom	290,525	Dec. 18	1463	404	25	1159
Harrow	T. S. Brown and G. Williams	283,069	Aug. 14	709	199	24	634
Harrow	J. Cameron	274,267	Mar. 20	1315	363	23	1076
Harrow	S. B. Carper	275,990	Apr. 17	1450	399	23	1492
Harrow	B. F. Christ	284,818	Sept. 11	813	227	24	1048
Harrow	H. Cobb	284,278	Sept. 4	150	41	24	929
Harrow	W. F. Dodge	273,479	Mar. 6	308	83	23	886
Harrow	H. Doolittle	283,063	Aug. 14	726	203	24	636
Harrow	A. C. Evans	281,755	July 24	1787	487	24	330
Harrow	J. G. Friedemann	280,303	June 26	2076	585	23	2502
Harrow	F. T. Gandy	284,832	Sept. 11	827	230	24	1051
Harrow	J. Gerstner	280,602	July 3	318	89	24	57
Harrow	A. Goodhart and G. Hemminger	270,417	Jan. 9	712	211	23	149
Harrow	A. E. Green	284,837	Sept. 11	835	233	24	1052
Harrow	M. W. Griffiths	270,055	Jan. 2	267	77, 78	23	55
Harrow	U. M. Hopkins	281,187	July 10	1050	290	24	193
Harrow	H. S. Howard	273,535	Mar. 6	378	100	23	899
Harrow	J. Kenton	273,105	Feb. 27	1931	541	23	799
Harrow	J. V. Lacey	284,309	Sept. 4	187	53	24	936

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Harrow	G. Lettenmyer	271,202	Jan. 23	1698	490	23	338
Harrow	C. P. Lewis	274,347	Mar. 20	1421	389	23	1094
Harrow	J. H. and P. Lux	290,751	July 3	503	143	24	90
Harrow	J. C. McDorman	281,095	July 10	928	259	24	171
Harrow	J. L. McKay	271,499	Jan. 30	2085	600	23	416
Harrow	A. Michael	285,501	Sept. 25	1640	461	24	1208
Harrow	W. H. Myers	288,100	Nov. 6	385	109	25	574
Harrow	E. L. Nash and B. R. Pennybacker, Jr.	288,472	Nov. 13	871	236	25	667
Harrow	F. Nishwitz	288,658	Nov. 20	1095	300, 301	25	713
Harrow	H. T. Noble	283,805	Aug. 28	1618	456	24	818
Harrow	J. Y. Payton	279,793	June 19	1452	407	23	2386
Harrow	J. D. Privett	274,819	Mar. 27	2019	562	23	1306
Harrow	B. F. Rix	287,965	Nov. 6	223	63	25	546
Harrow	F. C. Romkey	286,154	Oct. 2	457	124	25	85
Harrow	J. H. Romkey	279,437	June 12	1040	288	23	2308
Harrow	J. Schindler	289,860	Dec. 11	612	170	25	1001
Harrow	J. A. Thronson	278,632	May 29	2633	730	23	2108
Harrow	W. P. Triggs	286,974	Oct. 16	1504	414	25	285
Harrow	T. B., W., and G. W. Ward	274,066	Mar. 13	1048	289	23	1021
Harrow	A. A. Werts	287,353	Oct. 23	1990	542	25	380
Harrow	L. S. Wheeler	279,060	June 5	550	151	23	2217
Harrow. Adjustable	J. L. Laughlin	274,125	Mar. 20	1137	313	23	1044
Harrow and clod-breaker. Rotary	B. Smith	287,479	Oct. 30	2149	584, 585	25	418
Harrow and clod-crusher. Combined	S. Miller	285,644	Sept. 25	1810	515	24	1240
Harrow and crusher. Combined	J. Miller	272,074	Feb. 13	610	165	23	357
Harrow and cultivator	W. H. Carruth	271,599	Feb. 6	21	5	23	444
Harrow and cultivator. Combined	L. W. Fillebrown	273,697	Mar. 6	585	156	23	934
Harrow and cultivator. Combined	L. A. John	289,659	Dec. 4	357	101	25	950
Harrow and cultivator. Combined	J. W. Pollock	276,071	Apr. 17	1544	425	23	1507
Harrow and cultivator. Wheel	C. H. Eggleston	272,668	Feb. 20	1368	384	23	694
Harrow and drill. Spring-tooth	M. B. Williams and H. Manvel	280,548	July 3	254	68	24	46
Harrow and hay-rake teeth. Device for fastening	M. McDowell	286,213	Oct. 9	530	145	25	108
Harrow and roller. Combined	G. G. Seeger	273,320	Mar. 6	99	30	23	851
Harrow and seed-sower. Combined rotary-disk	J. Imler	282,526	Aug. 7	63	19	24	511
Harrow and stalk-cutter. Combined	A. Albies	280,551	July 3	257	69	24	46
Harrow and stalk-cutter or roller. Combined rotary	J. Barker	273,009	Feb. 27	1808	506	23	778
Harrow attachment	W. P. Kirkland	284,307	Sept. 4	186	52	24	936
Harrow. Corn	S. Y. Miller	270,241	Jan. 9	492	145	23	107
Harrow-coupling	P. Krier	280,382	July 3	53	14	24	19
Harrow. Disk	J. S. Corbin	273,966	Mar. 13	929	255	23	1001
Harrow. Double	G. F. Flynn	275,374	Apr. 10	666	178	23	1343
Harrow. Flexible	J. S. Nautz	280,848	July 10	635	179	24	118
Harrow. Pulverizing, seeding, and fertilizing	J. Stephens	283,160	Aug. 14	817	228	24	651
Harrow. Revolving	T. McClelland	290,781	Dec. 25	1796	496	25	1225
Harrow. Riding	T. L. Cone	289,232	Nov. 27	1796	497	25	846
Harrow. Riding	M. P. Migbell and A. J. Hull	272,454	Feb. 20	1095	309	23	646
Harrow. Riding	T. Van Ostrand	273,196	Feb. 27	2035	573	23	819
Harrow, roller, and cultivator. Combined	W. H. White	288,900	Nov. 20	1392	384	25	766
Harrow, roller, and scraper. Combined	J. Harter	277,029	May 8	652	170	23	1743
Harrow, roller, and seeder. Combined	J. R. Bane	284,709	Sept. 11	679	191, 192	24	1025
Harrow, roller, &c. Combined	J. D. McKinnon	289,118	Nov. 27	1661	460, 461	25	821
Harrow. Rotary	J. R. Bane	272,112	Feb. 13	665	181	23	566
Harrow. Rotary	P. Offenbacker	270,245	Jan. 9	496	146	23	107
Harrow. Seed-drilling	A. M. Knoll	290,244	Dec. 18	1079	301	25	1093
Harrow, seed-planter, and cultivator. Combined	R. F. Ellis	276,113	May 22	1947	534	23	1981
Harrow. Spring-tooth	A. O. Bement	272,039	Feb. 27	1729	483	23	764
Harrow. Spring-tooth	P. F. Wells	274,624	Mar. 27	1862	518	23	1178
Harrow. Spring-toothed sulky	S. O. Hickok	270,067	Jan. 2	281	83	23	57
Harrow. Sulky	S. H. Cawley	289,616	Dec. 4	302	84	25	941
Harrow. Sulky	J. S. Cleveland	282,271	July 31	2450	674	24	442
Harrow. Sulky	T. G. Cook	288,164	Nov. 6	456	127	25	567
Harrow. Sulky	J. Feess	275,030	Apr. 3	198	53	23	1259
Harrow. Sulky	E. E. Gillett	274,311	Mar. 20	1371	376	23	1085
Harrow. Sulky	T. B. Nutting	287,852	Nov. 6	72	22	25	520
Harrow-sulky	D. H. Glidden	289,405	Dec. 4	39	12	25	894
Harrow-tooth	J. T. Clarkson	282,054	July 31	2164	594	24	400
Harrow-tooth	I. H. Reiner	282,923	July 31	2394	650	24	438
Harrow-tooth	P. Stanton	278,287	May 22	2181	600	23	2020
Harrow-tooth clamp	L. J. Stanton	271,938	Feb. 6	427	117	23	516
Harrow-tooth fastening	G. W. and F. E. Arnold	276,209	Apr. 24	1721	476	23	1545
Harrow-tooth holder	F. W. Herrmann	289,260	Nov. 27	1826	504	25	852
Harrow-tooth socket	P. C. and I. A. Carstensen	288,773	Nov. 20	1241	340	25	738
Harrow. Wheel	C. F. Hornbeck	272,254	Feb. 13	828	231	23	596
Harrow. Wheel	T. A. Sweet	279,613	June 19	1247	346	23	2350
Harvester	W. R. Baker and H. E. Pridmore	275,977	Apr. 17	1430	395	23	1488
Harvester	R. W. Benedict	282,040	July 31	2141	588	24	397
Harvester	J. Bordwell	290,733	Dec. 25	1740	480, 481	25	1215
Harvester	D. R. Brown	276,764	May 1	307	79, 80	23	1679
Harvester	C. Colahan	285,464	Sept. 25	1599	449	24	1200
Harvester	J. S. Davis	271,430	Jan. 30	1989	574, 575	23	399
Harvester	J. S. Davis	272,217	Feb. 13	780	216, 217	23	587
Harvester	J. S. Davis	272,377	Feb. 13	982	275, 276	23	623
Harvester	C. M. Grim	289,090	Nov. 27	1626	450	25	814
Harvester	G. G. Hunt	281,368	July 17	1286	356	24	240
Harvester	J. W. Irwin	273,686	Mar. 6	575	153	23	932
Harvester	S. D. Maddin	288,353	Nov. 13	707	194	25	638

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Harvester	J. P. Manny	276,847	May 1	401	106	23	1696
Harvester	L. Miller	276,449	Apr. 24	2031	563, 564	23	1598
Harvester	H. E. Pridmore	270,120	Jan. 2	335	98, 99	23	68
Harvester	M. T. Ridout	279,106	June 5	619	169, 170	23	2228
Harvester	J. F. Seiberling	290,484	Dec. 18	1402	387, 388	25	1149
Harvester	O. Simpson. (Reissue)	10,354	July 10*	1102	304	24	201
Harvester	W. R. Smith	276,490	Apr. 24	2077	576, 577	23	606
Harvester	L. Sweet	277,078	May 8	720	187	23	1755
Harvester	C. E. Thorne	284,686	Sept. 11	649	183	24	1020
Harvester	J. F. Tibbets	286,505	Oct. 9	905	244	25	174
Harvester and grain-binder. Combined	A. O. Carman	269,826	Jan. 2	5	2, 3, 4	23	3
Harvester and husker. Combined corn	W. H. Secor	281,569	July 17	1531	420	24	281
Harvester and truck. Combined	J. F. Steward	276,642	May 1	122	32	23	1648
Harvester attachment	I. E. Arner	272,016	Feb. 13	539	146	23	546
Harvester attachment	W. H. Turner	284,778	Sept. 11	765	214	24	1040
Harvester. Beane	W. Bradford	270,381	Jan. 9	668	196	23	149
Harvester. Bean	E. S. Simmons	280,966	July 10	779	216	24	143
Harvester-binder	J. D. Heebner	278,956	June 5	420	114, 115, 116	23	2195
Harvester-binder	L. Miller	271,253	Jan. 30	1755	508, 509	23	357
Harvester-binder	L. Miller	271,254	Jan. 30	1759	510	23	358
Harvester-binder attachment	M. Hedrick	280,619	July 3	336	94	24	60
Harvester binding attachment	E. Ebi	278,521	May 29	2497	682	23	2065
Harvester binding attachment	E. M. Tousley	283,935	Aug. 28	1775	501	24	846
Harvester bundle-carrier	J. W. Reid	271,119	Jan. 23	1593	458	23	322
Harvester bundle carrier and dropper	J. K. Worthington	282,942	Aug. 7	552	156	24	599
Harvester chain-rake	J. H. Dickey	276,008	Apr. 17	1468	404	23	1494
Harvester. Clover	J. D. Otis	290,599	Dec. 18	1551	428	25	1175
Harvester. Corn	C. Baltzell	277,660	May 15	1411	380, 381	23	1880
Harvester. Corn	J. S. Briggs	286,772	Oct. 16	1247	338	25	241
Harvester. Corn	J. Fry	290,027	Dec. 11	815	229, 230	25	1037
Harvester. Corn	A. W. Taylor	274,843	Mar. 27	2042	569	23	1210
Harvester. Corn	R. H. Taylor	280,687	July 3	419	118	24	75
Harvester. Corn	S. F. Weaver	286,882	Oct. 16	1386	380, 381	25	265
Harvester. Corn and cane	O. H. Judd and C. T. Rawalt	276,422	Apr. 24	1995	552, 553	23	1592
Harvester. Cotton	C. D. Leach	284,642	Sept. 11	587	166	24	1010
Harvester. Cotton	C. T. Mason, Jr	286,032	Oct. 2	313	88	25	58
Harvester. Cotton	J. and J. E. Myers	286,055	Oct. 2	338	94	25	62
Harvester. Cotton	G. N. Todd	275,094	Apr. 3	282	77	23	1274
Harvester. Cotton	G. N. Todd	285,856	Oct. 2	92	27, 28	25	19
Harvester-cover	W. H. Hill	285,410	Sept. 25	1534	432, 433	24	1189
Harvester-cutter	I. F. Bassford	281,956	July 24	2039	558	24	374
Harvester-cutter	S. E. Conner and J. P. Finch	275,595	Apr. 10	946	257	23	1396
Harvester-cutter	H. L. Hopkins	273,082	Feb. 27	1889	531	23	792
Harvester-cutter	H. L. Hopkins	273,083	Feb. 27	1891	531	23	792
Harvester cutter-bar	J. K. Case	271,787	Feb. 6	245	69	23	483
Harvester cutter-bar	W. H. Farra	278,922	June 5	383	105	23	2188
Harvester cutter-bar	M. W. Kiefer	288,342	Nov. 13	692	191	25	636
Harvester cutter-bar	J. E. Lewis	276,838	May 1	392	104	23	1695
Harvester cutter-bar	S. B. Robbins	271,127	Jan. 23	1604	461	23	323
Harvester cutter-bar	D. Shirley	280,250	June 26	2008	564	23	2490
Harvester cutting apparatus	E. S. Snyder	283,292	Aug. 14	982	274	24	683
Harvester grain-binder	W. M. Platt	276,458	Apr. 24	2039	566, 567	23	1600
Harvester grain-binder	S. B. Robbins	271,126	Jan. 23	1602	460, 461	23	323
Harvester. Grain-binding	M. E. Blood	275,751	Apr. 10	1150	315, 316	23	1430
Harvester. Grain-binding	J. S. Davis	275,330	Apr. 3	569	155, 156, 157, 158	23	1322
Harvester. Grain-binding	W. W. Marsh and M. E. Blood	275,681	Apr. 10	1062	288, 289, 290	23	1416
Harvester. Grain-binding	L. Miller	276,448	Apr. 24	2027	562, 563	23	1598
Harvester. Grain-binding	L. Miller	290,459	Dec. 18	1368	378, 379	25	1143
Harvester grain-divider	E. Barnhard and A. F. Thomas	282,947	Aug. 14	563	159	24	607
Harvester grain-elevator	O. B. Colcord	277,993	May 22	1808	494	23	1956
Harvester-knife grinder	G. W. King	270,548	Jan. 9	887	257	23	183
Harvester knife-grinder	G. W. King	285,492	Sept. 25	1629	457	24	1206
Harvester-pitman	K. Anunsen	276,149	Apr. 24	1648	455	23	1533
Harvester platform adjustment	D. R. Preston	278,596	May 29	2581	705	23	2099
Harvester-rake	S. D. Bates	278,850	June 5	242	70	23	2164
Harvester-rake	C. Colahan	284,723	Sept. 11	698	196	24	1028
Harvester-rake	O. Cooley	272,212	Feb. 13	777	215	23	586
Harvester-rake	C. Lidren	278,979	June 5	443	120, 121, 122	23	2199
Harvester-rake	C. Madson	283,409	Aug. 21	1136	321	24	718
Harvester-rake	S. B. Robbins	271,124	Jan. 23	1600	460	23	323
Harvester rake-arm	O. Kromer	278,023	May 22	1846	503	23	1963

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Harvester-rake trip-gear	W. A. Osborn	288,674	June 26	1805	507, 508	23	2453
Harvester-rake trip mechanism	W. F. Burditt	279,702	June 19	1354	377, 378	23	2368
Harvester-reel	K. Arnesen	276,148	Apr. 24	1648	455	23	1533
Harvester-reel	J. S. Davis	277,996	May 22	1812	495	23	1957
Harvester-reel	G. G. Hunt	288,304	Oct. 9	665	177	25	131
Harvester-reel	S. Jewett	284,304	Sept. 4	183	51	24	935
Harvester-reel	F. F. Kanne. (Reissue)	10,986	Jan. 2	434	126, 127	23	90
Harvester-reel	F. F. Kanne	272,657	Feb. 13	569	159	23	554
Harvester-reel	W. F. Otis	288,629	Oct. 16	1070	288	25	210
Harvester-reel	H. E. Pridmore	270,910	Jan. 23	1341	387	23	281
Harvester-reel	W. J. Pulver	270,336	Jan. 9	606	178, 179	23	198
Harvester-reel	S. B. Robbins	271,125	Jan. 23	1601	460	23	323
Harvester-reels. Apparatus for adjusting	G. H. Howe	288,611	Nov. 20	1285	352	25	746
Harvester-reels. Apparatus for adjusting	J. M. Rosebrooks	270,341	Jan. 9	612	180	23	129
Harvester. Self-binding	I. E. Arner	281,227	July 17	1108	305	24	909
Harvester sickle-bar	C. Schmidt	271,923	Feb. 6	410	113	23	513
Harvester-sickle driving mechanism	G. H. Carver	282,494	Aug. 7	18	5	24	504
Harvester traction-wheel	R. H. Dixon	271,612	Feb. 6	35	9	23	446
Harvester traction-wheel	W. N. Whiteley and W. Bayley	279,061	June 5	551	151	23	2217
Harvester-wheel	L. Miller and A. E. Ellinwood	276,450	Apr. 24	2032	564	23	1598
Harvester-wheel	J. R. Severance	289,150	Nov. 27	1698	471	25	827
Harvesters and mowing-machines. Adjustable reel for	J. D. Nix	290,792	Dec. 25	1805	499, 500	25	1227
Harvesters. Automatic gaveling-rake for	S. G. Randall	290,801	Dec. 25	1824	503, 504	25	1229
Harvesters. Bundle-separating attachment for self-binding	C. A. and N. S. Ruddock	270,486	Jan. 9	797	233	23	165
Harvesters. Cover for self-binding	W. H. Turner	270,882	Jan. 16	1273	367	23	964
Harvesters. Endless carrier for	W. R. Steiner	290,715	Dec. 25	1714	472, 473	25	1210
Harvesters. Grain-adjusting device for	M. E. Blood	278,492	May 29	9462	672	23	2079
Harvesters. Grain-carrier for	J. S. Davis	285,580	Sept. 25	1731	489, 490	24	1225
Harvesters. Sheaf-gatherer for self-binding	E. S. Williams	279,300	June 12	853	236	23	2278
Harvesters. Transporting frame and wheel for	A. Gump	276,581	May 1	51	14	23	1636
Harvesting and binding machine. Grain	G. Esterly	282,065	July 31	2177	598, 599	24	463
Harvesting-machine	R. Brown	285,730	Sept. 25	1925	545, 546	24	1260
Harvesting-machine	R. Eickemeyer	271,694	Feb. 6	129	36	23	462
Harvesting-machine	E. W. Jenkins	283,248	Aug. 14	930	259	24	673
Harvesting machine. Cotton-	W. L. Black	276,661	May 1	150	38, 39	23	1651
Harvesting machine. Grain-	G. Esterly	288,784	Nov. 20	1251	343	25	740
Harvesting machine. Grain-	J. F. Gordon	283,097	Aug. 14	742	208, 209	24	639
Harvesting machine. Grain-	C. Whitney	281,811	July 24	1864	509, 510	24	343
Hasp-hook	G. H. Sargent	290,119	Dec. 11	925	263	25	1058
Hasp-lock	J. C. Boggs	282,607	Aug. 7	160	48	24	529
Hasp-lock	J. C. Franklin	283,335	Aug. 14	1039	292	24	694
Hasp-lock	E. R. Michaelis	289,849	Dec. 11	601	167	25	999
Hat	J. P. Beatty	279,690	June 19	1342	373	23	2366
Hat	E. Copleston	283,863	Aug. 28	1684	475	24	889
Hat	R. H. Trested	290,262	June 26	2022	569	23	2492
Hat and bonnet stand	W. V. Whipple	288,287	Nov. 13	617	169	25	623
Hat and bonnet supporter	M. Smith	290,365	Dec. 18	1233	347	25	1120
Hat and coat hanger and button-hook. Combined	W. R. Cole	270,889	Jan. 23	1313	379	23	276
Hat and making the same	R. E. Mason, W. Smalley, and G. Schofield.	277,913	May 22	1709	466	23	1940
Hat and other head-wear	R. G. Salomon	287,176	Oct. 23	1769	485	25	341
Hat-band	C. F. Beatty	274,704	Mar. 27	1886	525	23	1182
Hat-binding	D. and D. C. Wheeler	280,982	July 10	796	221	24	146
Hat-blocking device	H. O. Maynard	274,012	Mar. 13	984	270	23	1011
Hat-blocking machine	M. H. Ryder	283,920	Aug. 28	1637	461	24	880
Hat-blocking table. Revolving	M. A. Cuming	271,907	Feb. 6	266	74	23	487
Hat-bodies and other fabrics of carded and disintegrated fibers. Method of and apparatus for making	J. T. Waring	277,636	May 15	1383	373	23	1875
Hat-bodies, and sticking and scalding napped hats. Machine for sizing	G. F. Larkin	275,924	Apr. 17	1372	378	23	1477
Hat-bodies, &c. Machine for felting and sizing	C. W. Glover	279,376	June 12	964	268	23	2296
Hat-bodies. Machine for hardening and sizing	W. H. Behrens	287,752	Oct. 30	2520	679	25	488
Hat-bodies. Roller for felting	C. W. Glover	282,881	Aug. 7	486	136, 137	24	586
Hat-bodies. Roller for felting	C. W. Glover	284,411	Sept. 4	308	86	24	855
Hat-bodies upon expansible hat-blocks. Device for holding	E. Tweedy	283,363	Aug. 14	1081	304	24	701
Hat-body-felting machine	C. G. W. Purdy	281,134	July 10	980	274	24	180
Hat-brim-curling machine	F. Cocker	286,907	Oct. 16	1421	390	25	271
Hat-brim-curling machine	F. Cocker	286,908	Oct. 16	1423	391	25	271
Hat-brim-curling machine	J. Wilson	289,202	Nov. 27	1765	489	25	840
Hat-brims. Wire frame for	W. B. Curtiss	288,313	Nov. 13	647	177	25	628
Hat, cap, &c	A. C. Couch	282,444	July 31	2676	734	24	487
Hat, cap, and other head-wear	R. F. S. Heath	273,074	Feb. 27	1881	528	23	791
Hat-cooling apparatus for blocking-machines	H. C. Haulenbeck	276,243	Apr. 24	1761	491	23	1552
Hat-curling machine	G. Roth	278,458	May 29	2424	661	23	2072
Hat-curling machine	M. H. Ryder	287,865	Nov. 6	89	27	25	523
Hat-curling machine	E. Tweedy	281,321	July 17	1231	340, 341	24	230
Hat-curling machine	E. Tweedy	283,726	Aug. 21	1515	427, 428	24	788
Hat-drying apparatus	W. H. Dunlap and J. Ketchum, Jr.	288,987	Nov. 27	1501	415	25	793

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Hat-felting machine	R. Drake	270,292	Jan. 9	552	162	23	118
Hat-felting machine	R. Eickemeyer	289,243	Nov. 27	1808	499 500	25	848
Hat-felting machine	J. C. Grant	270,422	Jan. 9	718	212	23	150
Hat-flanging machine	W. A. Bate	284,711	Sept. 11	682	193	24	1026
Hat frames and bodies. Manufacture of	D. and D. C. Wheeler	280,980	July 10	794	221	24	146
Hat-frames. Covering	D. and D. C. Wheeler	280,981	July 10	796	221	24	146
Hat-holder	J. B. Broome	290,735	Dec. 25	1743	482	25	1215
Hat-holder	F. E. Bundy	275,581	Apr. 10	930	252	23	1393
Hat-hook	J. H. Alcott	273,698	Mar. 13	591	159	23	943
Hat-ironing machine	A. De Laski and E. Shaw	273,670	Mar. 6	550	146 147	23	928
Hat-ironing machine	R. Eickemeyer	290,408	Dec. 18	1287	361	25	1130
Hat-lining	A. Hoen	277,729	May 15	1486	402	23	1894
Hat-machines. Movable bottom for	C. Lake	279,772	June 19	1427	399	23	2382
Hat-manufacturer's lap-machine	G. W. Alexander	281,296	July 17	1106	305	24	209
Hat or bonnet	M. H. Ryder	280,331	June 26	2113	592	23	2508
Hat or cap	A. C. Couch	282,441	July 31	2674	733	24	487
Hat or cap	A. C. Couch	282,442	July 31	2675	733	24	487
Hat or cap	A. C. Couch	282,443	July 31	2675	733	24	487
Hat or cap lining	C. Simis	279,830	June 19	1499	419	23	2394
Hat or other head-covering	A. R. B. Moses	272,147	Feb. 13	700	192	23	573
Hat or other head-covering	R. H. Trested	270,155	Jan. 2	385	112	23	78
Hat-pressing machine	J. P. Beatty	286,576	Oct. 16	998	270	25	198
Hat scalding and felting machine	J. S. Taylor	270,843	June 19	1514	424	23	2396
Hat-shade	W. Munz	283,353	Aug. 14	1066	300	24	699
Hat-shaping apparatus	L. H. Hoyt	277,035	May 8	658	172	23	1745
Hat show-box	J. Rindsberg	290,475	Dec. 18	1391	384	25	1147
Hat sizing and shrinking machine	W. F. Martin	274,623	Mar. 27	1789	497	23	1164
Hat-sizing apparatus	N. Harper	278,333	May 29	2265	620	23	2044
Hat-sizing machine	A. T. Clark	278,509	May 29	2483	678	23	2083
Hat-sizing machine	N. Harper	278,332	May 29	2261	619 620	23	2043
Hat-sizing machine	A. Pelisse	276,708	May 1	224	57	23	1663
Hat-sizing machine	A. Pelisse	279,664	June 19	1311	364	23	2361
Hat sizing or felting machine	J. S. Taylor	280,095	June 26	1898	514	23	2458
Hat starting and sizing machine	W. Simmonds	278,614	May 29	2608	711	23	2103
Hat-stiffening compound	A. Solmans	287,972	Nov. 6	231	.....	25	548
Hat-stiffening machine	J. C. Hill and J. Doody	289,911	Dec. 11	677	188	25	1011
Hat. Sunshade	S. B. Bartine	276,753	May 1	294	75	23	1676
Hat-tip	W. J. Winghart and W. H. Rochford	274,873	Mar. 27	2090	580	23	1216
Hat-tips. Machine for stretching	J. H. Gesner	277,703	May 15	1460	394	23	1889
Hat. Umbrella	A. Gros and C. Salbreux	270,660	Jan. 16	1033	296	23	218
Hats and bonnets. Wiring brims of	M. H. Ryder	288,596	Nov. 13	1017	279	25	694
Hats and sizing or felting hat and other fabrics. Scalding napped	J. S. Taylor	277,081	May 8	724	189	23	1756
Hats. Device for hanging up	W. H. Stichter	269,970	Jan. 2	175	50	23	36
Hats, furs, &c. Machine for clipping	T. and W. H. Coldwell	271,423	Jan. 30	1979	571 572	23	397
Hats in the process of manufacture. Machine for washing	E. B. Taylor	278,467	May 29	2434	664	23	2074
Hats. Machine for beating up napped	W. F. Martin	275,925	Apr. 17	1373	378	23	1477
Hats. Manufacture of	W. H. Dunlap and J. Ketchum, Jr	288,986	Nov. 27	1499	415	25	793
Hats. Manufacture of cloth	M. S. Levy	272,365	Feb. 13	1003	281	23	625
Hats. Manufacture of felt	C. Vero and J. Everitt	284,024	Sept. 11	935	.....	24	1071
Hats. Manufacturing	D. and D. C. Wheeler	286,244	Oct. 9	569	156	25	114
Hats on finishing-blocks. Machine for mounting	R. Eickemeyer	278,001	May 22	1818	497	23	1958
Hats. Ribbon or label holder for	W. Carrick	278,877	June 5	278	81	23	2171
Hatter's tank	R. Drake	279,547	June 19	1175	326	23	2337
Hatch, &c. Automatic	C. Chapman	289,068	Nov. 27	1603	444	25	810
Hatch-cover	J. McIntyre	282,100	July 31	2224	611	24	411
Hatch-door of elevator-shafts. Self opening and closing	S. W. Bickley	288,612	Nov. 20	1036	285	25	703
Hatch. Elevator	W. Stevens	279,612	June 19	1246	345	23	2350
Hatch-gate. Elevator	W. Stevens	279,611	June 19	1245	345	23	2350
Hatchet	J. R. Bailey	270,883	Jan. 23	1308	378	23	275
Hatchet	W. P. Cutter	274,085	Mar. 13	1076	297	23	1026
Hatchets. Die for forming the claws of	J. Harding	285,127	Sept. 18	1197	335	24	1123
Hatchway. Elevator	W. Stevens	287,590	Oct. 30	2304	623	25	448
Hatchway-gate	W. Stevens	279,610	June 19	1244	345	23	2349
Hatchway guard. Automatic elevator	J. Byers and G. Taylor	276,767	May 1	311	81	23	1680
Hatchway guard. Elevator	J. Addie	272,932	Feb. 27	1721	481	23	762
Hatchway guard. Elevator	E. Kiss	282,905	Aug. 7	513	144	24	591
Hatchway guard. Elevator	N. K. Sprague	288,884	Nov. 20	1373	378	25	762
Hatchway-protector for elevators	R. T. Bean	287,219	Oct. 23	1826	500	25	350
Hatchway safety-guard. Elevator	J. P. Richardson	285,681	Sept. 25	1851	529	24	1248
Hatchway. Self-closing	T. E. Elliott	288,041	Nov. 6	316	89	25	562
Hatchway. Self-closing	C. C. Hartung	290,048	Dec. 11	841	238	25	1041
Hatchway. Self-closing	D. Humphreys	274,777	Mar. 27	1971	549	23	1197
Hatchway. Self-closing	D. Humphreys	286,136	Oct. 2	436	119	25	81
Hatchway. Self-closing	R. D. Thackston	271,157	Jan. 23	1640	472	23	330
Hatchway. Self-closing	R. D. Thackston	274,844	Mar. 27	2043	569	23	1210
Hatchway. Self-closing	G. W. Van Allen	278,204	May 22	2071	571	23	2002
Hatchways. Automatic door for elevator	M. F. Kidd	281,632	July 17	1616	442	24	294
Hauling-can	J. F. Swab	282,585	Aug. 7	134	40	24	524
Hauling upon slipways. Apparatus for	J. Thompson	278,631	May 29	2631	719 720	23	2108
Hay and cotton press	J. Cocke, Jr	283,571	Aug. 21	1334	372	24	753
Hay and cotton press	S. Donaldson	279,546	June 19	1175	325	23	2337
Hay and cotton press	J. A. Hampton	273,520	Mar. 6	359	95	23	895
Hay and cotton press	W. J. F. Liddell	272,719	Feb. 20	1428	400 401	23	705
Hay and cotton press	W. J. F. and W. S. Liddell	286,619	Oct. 16	1057	284 285	25	908

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Heating, tempering, and annealing furnace	A. J. Nellis	286,101	Nov. 6	386	109	25	574
Heating the air in heat-flues of buildings. Apparatus for	A. P. Howard	286,134	Oct. 2	434	118	25	80
Heating vehicles. Apparatus for	A. Morel	273,758	Mar. 13	670	179 180	23	957
Hedge-trimmer	M. M. Curtis	289,074	Nov. 27	1611	446	25	812
Hedge-trimming machine	E. W. Dawson	290,865	Dec. 25	1898	524	25	1243
Hedge-trimming machine	M. Lowrey	272,843	Feb. 20	1003	448 449	23	736
Heel beading and wheeling tool	C. J. Addy	270,622	Jan. 16	961	263	23	208
Heel-burnisher and edge-setter	J. P. Dion	290,544	Dec. 18	1484	410	25	1163
Heel-burnishing machine	J. L. Cross	278,102	May 22	1935	531	23	1979
Heel-burnishing machine	O. Cyr	283,381	Aug. 21	1108	313	24	712
Heel-burnishing machine	J. E. Tarbox	270,150	Jan. 2	392	111	23	78
Heel-burnishing tool	E. Bourgeois	277,207	May 8	875	232	23	1781
Heel-filing machine	W. Gordon	285,997	Oct. 2	288	75	25	51
Heel-iron	H. E. Wilkins and J. L. Dole	271,755	Feb. 6	205	57	23	475
Heel lift and tap	G. A. White	283,048	Aug. 14	686	192	24	629
Heel lifts and taps. Manufacturing	G. A. White	287,488	Oct. 30	2162	567	25	420
Heel-lifts. Machine for nailing	Q. A. Townes	276,648	May 1	129	34	23	1649
Heel-nailing machine	M. V. Ethridge	285,596	Sept. 25	1755	497 498	24	1230
Heel-nailing machine	F. F. Raymond, 2d	271,117	Jan. 23	1590	456	23	321
Heel-nailing machine	F. F. Raymond, 2d	271,118	Jan. 23	1591	456	23	322
Heel-nailing machine	F. F. Raymond, 2d	280,399	July 3	72	20	24	15
Heel-nailing machine	F. F. Raymond, 2d	287,472	Oct. 30	2137	560 561 562	25	416
Heel-nailing machine	F. F. Raymond, 2d	289,857	Dec. 11	609	170	25	1000
Heel-nailing machine	F. F. Raymond, 2d	290,109	Dec. 11	908	257 258	25	1054
Heel-nailing machine	F. F. Raymond, 2d, and J. E. Wheeler	280,861	July 10	648	183	24	120
Heel-paring machine	F. Cutlan	274,109	Mar. 20	1113	307	23	1040
Heel-trimming machine	J. H. Busell	270,632	Jan. 16	996	288	23	211
Heel-trimming machine	J. H. Busell	280,717	July 3	453	130	24	81
Heel-trimming machine	H. A. Henderson	281,691	July 24	1700	462 463	24	314
Heel-trimming machine	J. Tingley	290,817	Dec. 25	1845	511	25	1233
Heel-trimming machine	M. A. Tyler	292,591	Aug. 7	141	42	24	585
Heels. Burnisher and beader-head for polishing	S. B. Scruton	282,673	Aug. 7	236	69	24	541
Heeling-machine	D. Whitlock	287,489	Oct. 30	2163	567 568	25	420
Hemp drawing and spinning machines. Feed-regulator for	J. R. Hoover	275,046	Apr. 3	215	58	23	1263
Hemp, flax, &c. Machine for dressing	T. Tebow	290,494	Dec. 18	1415	391	25	1151
Hen-house	S. Rawson	289,307	Nov. 27	1883	524	25	863
Hide for shaping. Preparing raw	O. E. Wait	284,780	Sept. 11	767	214	24	1040
Hide-splitter	A. England	290,555	Dec. 18	1500	414	25	1166
Hides, &c. Apparatus for scouring and fleshing	A. Whiting	275,305	Apr. 3	378	147	23	1318
Hides. Composition for depilating	J. L. Moret	281,287	July 17	1181	.....	24	222
Hides. Machine for stretching and drying	L. Dederick	287,009	Oct. 21	1551	428	25	299
Hides. Machine for unhairing, scouring, and fleshing	A. E. Whitney	280,698	July 3	431	122	24	77
Hides or skins. Tawing	J. Shaw	286,491	Oct. 9	885	.....	25	171
Hides. Tawing	C. P. Smallridge, Sr	281,411	July 17	1340	.....	24	249
High and low water indicator for steam-boilers. Automatic	B. Collins	271,794	Feb. 6	253	70	23	484
Hilling and fertilizing machine	R. W. Allen	274,542	Mar. 27	1695	470 471	23	1148
Hinge	S. D. Halley	270,890	Jan. 16	1295	373	23	267
Hinge	H. C. Lewis	279,775	June 19	1433	401	23	2383
Hinge	D. McCurdy	282,004	July 24	2094	574	24	383
Hinge	A. N. and G. A. Parnall	290,464	Dec. 18	1377	380	25	1145
Hinge	C. Pfaunts	277,925	May 22	1732	470	23	1942
Hinge	A. L. Porter	283,277	Aug. 14	966	269	24	679
Hinge	T. L. Rivers	276,540	Apr. 24	2142	596	23	1617
Hinge	A. L. Scranton	282,574	Aug. 7	121	36	24	521
Hinge	A. Shepard	282,576	Aug. 7	123	36, 37	24	521
Hinge. Adjustable	M. Campbell	279,857	June 19	1534	429	23	2399
Hinge. Blind	C. G. Shepard and P. Adams, Jr.	282,470	July 31	2706	744	24	492
Hinge. Door	H. Haltaufderheide	283,601	Aug. 21	1364	381	24	739
Hinge for boilers, stoves, &c	N. W. Pratt	273,601	Mar. 6	466	126	23	914
Hinge for mirrors, &c. Frictional	J. C. Blair	290,839	Dec. 25	1868	516	25	1237
Hinge for sliding and rolling gates	J. S. Wood	276,949	May 1	543	142	23	1719
Hinge for toilet-glasses and mirrors	C. S. Fleming	290,021	Dec. 11	809	227	25	1036
Hinge for vessels of enameled ironware	F. G. and W. F. Niedringhaus	286,628	Oct. 16	1069	288	25	210
Hinge. Friction	F. S. Clarkson	290,398	Dec. 18	1276	359	25	1128
Hinge. Gate	L. M. Draper	276,165	Apr. 24	1669	461	23	1536
Hinge. Gate	G. H. Pattison	283,416	Aug. 21	1144	323 324	24	719
Hinge. Gate	A. S. Thomas	289,870	Dec. 11	623	173	25	1002
Hinge. Lock	J. K. Clark	277,680	May 15	1434	387	23	1864
Hinge. Lock	A. Gärtner	280,462	July 3	163	44	24	30
Hinge. Lock	J. A. Kline	288,345	Nov. 13	696	191	25	636
Hinge. Lock	E. E. Masters	283,128	Aug. 14	780	219	24	646
Hinge. Lock	A. Seivard	283,523	Aug. 21	1274	356	24	741
Hinge. Metal-box	A. H. Fancher	284,828	Sept. 11	823	229	24	1050
Hinge. Mirror	G. L. Donovan	285,239	Sept. 18	1329	374	24	1147
Hinge. Sewing-machine	W. B. Cleves	272,121	Feb. 13	673	183	23	568
Hinge. Shutter	L. W. Merriam	288,834	Nov. 20	1314	360	25	751
Hinge. Spring	J. H. Alexander	269,986	Jan. 2	191	56	23	40
Hinge. Spring	T. Butler	277,881	May 22	1675	457	23	1934
Hinge. Spring	C. B. Clark	276,958	May 1	557	145	23	1721
Hinge. Spring	J. K. Clark	276,000	Apr. 17	1459	402	23	1493
Hinge. Spring	L. M. Devore	282,858	Aug. 7	459	130	24	581

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hinge. Spring	L. M. Devore	288,984	Nov. 27	1497	415	25	793
Hinge. Spring	H. P. Kochsmeier	282,993	Aug. 14	609	173	24	616
Hinge. Spring	J. Spruce	277,370	May 8	1062	286	23	1815
Hinge. Spring	A. B. Tanner	271,946	Feb. 6	436	120	23	517
Hinge. Spring	R. H. Wiles	274,161	Mar. 20	1181	325	23	1052
Hinge. Spring	W. H. Williams	281,594	July 17	1566	428	24	286
Hinge. Stop	T. M. Hass	284,008	Aug. 28	1888	529	24	865
Hinge. Strap	W. L. Bacon	289,599	Dec. 4	285	80	25	937
Hinge. Table	J. C. Vetter	281,322	July 17	1232	341	24	230
Hinge. Trunk	G. W. Hey	282,635	Aug. 7	195	56	24	534
Hitching device	C. E. Dyer	282,968	Aug. 14	583	165	24	611
Hitching device	L. E. Klugh and J. Hudson	278,710	June 5	44	14	23	2139
Hitching device. Horse	J. H. Osgood	272,466	Feb. 20	1108	313	23	649
Hitching-post	W. P. Beach	271,769	Feb. 6	220	62	23	478
Hitching-strap	H. S. Dimock	280,363	July 3	30	8	24	7
Hitching-strap holder	C. D. Page	273,300	Mar. 6	74	21	23	847
Hitching-strap holder	C. D. Page	275,695	Apr. 10	1077	294	23	1419
Hobby-horse	J. and R. Bean	284,940	Sept. 11	957	268, 269	24	1074
Hod-elevator	S. Dale	286,119	Oct. 2	416	114	25	77
Hod-elevator	A. T. Hull	286,009	Oct. 2	282	79	25	53
Hod-elevator	A. T. Hull	290,235	Dec. 18	1068	299	25	1091
Hod-elevator	C. L. Nicholson	290,347	Dec. 18	1212	339	25	1116
Hod-elevator	A. B. Piatti	271,113	Jan. 23	1586	456	23	320
Hod-elevator	F. Pierce	283,655	Aug. 21	1420	399	24	770
Hod-elevator. Endless	L. Atwood	275,455	Apr. 10	776	207	23	1367
Hod-elevator. Endless	O. N. Eaton	287,013	Oct. 23	1558	429, 430	25	300
Hod-elevator. Safety	L. Atwood	271,678	Feb. 6	109	30	23	459
Hod-elevator. Safety	L. Atwood	273,006	Feb. 27	1805	505	23	777
Hoe	H. H. and C. Finn	285,604	Sept. 25	1767	500	24	1232
Hoe	D. Humphrey	275,915	Apr. 17	1363	375	23	1475
Hoe	H. and L. Iwan	287,027	Oct. 23	1581	435	25	305
Hoe. Combined	R. D. Murrell	284,883	Sept. 11	886	249	24	1062
Hoe. Corn	L. Connor	274,108	Mar. 20	1111	306	23	1039
Hoe. Horse scuffle	O. Burgher	275,462	Apr. 10	783	209	23	1368
Hoe. Scuffle	H. Still	289,723	Dec. 4	442	124	25	964
Hoe. Spring	J. S. Heath	281,874	July 24	1940	530	24	357
Hoe. Wheel	D. C. Lee	282,202	July 31	2370	652	24	433
Hoes. Die for making	F. F. P. Unckrich	278,203	May 22	2070	570	23	2002
Hoes. Machine for making	R. E. Breed	280,287	June 26	2052	576, 577	23	2498
Hoes. Machine for making the eyes of	J. S. Craft	275,363	Apr. 10	651	174	23	1346
Hoes. Manufacture of	T. Bowater and L. D. York	281,441	July 17	1372	378	24	254
Hog-cholera compound	J. A. Thomas	281,161	July 10	1011	.....	24	185
Hog-cholera remedy	E. W. Be Vier	282,949	Aug. 14	565	.....	24	608
Hog-cholera remedy	D. T. Cooper	283,080	Aug. 14	722	.....	24	636
Hog-cholera remedy	G. W. Wynns	289,487	Dec. 4	146	.....	25	912
Hog-nose cutter	W. B. Lyon	279,779	June 19	1437	402	23	2383
Hog-nose ring	G. Collins	273,960	Mar. 13	922	253	23	999
Hog-nose ringer	F. McConnell	275,241	Apr. 3	458	127	23	1304
Hog-ringer	J. W. Laub	282,909	Aug. 7	517	145	24	592
Hoist. Ash	J. D. Spreckels	289,159	Nov. 27	1709	475	25	830
Hoist. Barrel	W. Mack	278,570	May 29	2553	696	23	2095
Hoist or elevator	T. McDonough	278,445	May 29	2408	656	23	2069
Hoisting and conveying earth from sewer-trenches. Apparatus for	P. H. McCauley	280,645	July 3	369	103	24	65
Hoisting and conveying machine	A. E. Brown	281,011	July 10	827	230, 231	24	153
Hoisting and conveying machine	A. E. Brown	281,446	July 17	1387	381, 382	24	257
Hoisting and conveying machine car	D. I. Calhoun	283,964	Aug. 28	1808	512	24	853
Hoisting and laying stone. Apparatus for	G. Hunter	270,675	Jan. 16	1052	301	23	221
Hoisting and transmitting freight, coal, &c. Mechanism for	F. Murgatroyd	277,327	May 8	1016	272, 273	23	1807
Hoisting apparatus	T. W. Capen	279,704	June 19	1357	378	23	2369
Hoisting apparatus	E. Gasser	273,835	Mar. 13	770	209	23	974
Hoisting apparatus	H. B. Larzelere	281,528	July 17	1485	408	24	274
Hoisting apparatus	C. Mettam	288,586	Nov. 13	1002	276	25	691
Hoisting apparatus	J. H. Miller	285,915	Oct. 2	175	50	25	34
Hoisting apparatus	G. E. Newell and L. G. Ladd	282,556	Aug. 7	102	30, 31	24	518
Hoisting apparatus	R. Stone	271,537	Jan. 30	2127	612, 613	23	423
Hoisting apparatus	W. W. Wythe	279,305	June 12	857	238	23	2279
Hoisting apparatus for wagon-derricks, &c	B. Jackson and G. W. Bonds	285,903	Oct. 2	160	45	25	31
Hoisting apparatus for locomotive and portable engines.	J. L. Boyer	280,904	July 10	696	196	24	129
Hoisting apparatus. Hog	G. B. Flanigan	272,422	Feb. 20	1059	297, 298	23	639
Hoisting-bucket	S. Grant	275,821	Apr. 17	1252	344	23	1455
Hoisting-bucket	G. E. Newell and L. G. Ladd	290,649	Dec. 18	1615	444	25	1185
Hoisting-buckets to belts. Device for attaching	R. N. Sanderson	271,743	Feb. 6	190	53	23	473
Hoisting-car	L. D. Davis	290,404	Dec. 18	1281	360	25	1129
Hoisting-carrier	G. D. Rowell	271,276	Jan. 30	1786	518, 519	23	362
Hoisting device	C. W. Baldwin	277,403	May 8	1098	295	23	1821
Hoisting-gin	S. T. Richardson	280,329	June 26	2111	592	23	2508
Hoisting-machine	J. Boyd	271,681	Feb. 6	113	31	23	459
Hoisting-machine	T. W. Capen	273,462	Mar. 6	286	77, 78, 79	23	882
Hoisting-machine	E. H. and L. L. Graves and G. W. Brottor.	282,979	Aug. 14	592	167	24	613
Hoisting-machine	E. Harrington	272,431	Feb. 20	1068	301	23	642

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hoisting-machine	E. Harrington	272,432	Feb. 20	1069	301	23	642
Hoisting-machine	H. S. Haskins	272,439	Feb. 20	1076	303	23	643
Hoisting-machine	J. Mayhew and R. D. Payne	277,147	May 8	808	213	23	1771
Hoisting-machine	B. F. Porter, J. P. Bloom, and R. Aspin.	275,849	Apr. 17	1286	353	23	1461
Hoisting-machine	R. Reid	278,821	June 5	192	56	23	2155
Hoisting-machine brake. Automatic	W. W. Wythe	279,304	June 12	856	237	23	2279
Hoisting-machine. Portable	L. T. Pyott	271,115	Jan. 23	1589	457	23	321
Hoisting machinery carrier or sheave-truck	C. W. Hunt	282,640	Aug. 7	200	58	24	534
Hoistway-covers. Closing and controlling	D. Fraser	278,528	May 29	2505	684	23	2087
Holdback	T. A. Crabtree	278,887	June 5	289	83	23	2172
Holdback. Carriage	C. Phelps	273,596	Mar. 6	460	124	23	913
Holdback. Vehicle	J. H. Stamp	272,492	Feb. 20	1147	322	23	655
Holder:							
See Abrasive-disk holder.							
Bag-holder.							
Bag and twine holder.							
Barrel-head holder.							
Bill-holder.							
Bird-cage food-holder.							
Blacking-box holder.							
Bolt-holder.							
Book-holder.							
Bouquet-holder.							
Broom-holder.							
Brush-holder.							
Butter-holder.							
Can-holder.							
Candle-holder.							
Car-label holder.							
Car-seat ticket-holder.							
Carboy-holder.							
Card-holder.							
Card and sample holder.							
Chart-holder.							
Chisel-holder.							
Christmas-tree holder.							
Christmas-tree candle-holder.							
Cigar-holder.							
Cigar and cigarette holder.							
Copy-holder.							
Cow-tail holder.							
Crayon-holder.							
Crayon or lead holder.							
Cuff-holder.							
Cuspidor-holder.							
Cutter-head tool-holder.							
Dental-disk holder.							
Electrotype and stereotype plate holder.							
File-holder.							
Flower-pot holder.							
Flower-stand holder.							
Gas-holder.							
Glove-holder.							
Grindstone tool-holder.							
Grindstone-truing-tool holder.							
Hair-holder.							
Harness line-holder.							
Harrow-tooth holder.							
Hat-holder.							
Hitching-strap holder.							
Horse-tail holder.							
Jar-holder.							
Knife and pencil holder.							
Knitting-machine bobbin-holder.							
Lamp-holder.							
Lamp-shade holder.							
Lathe-tool holder.							
Lead and crayon holder.							
Lead or crayon holder.							
Life-preserver holder.							
Loom picker-stick holder.							
Map-holder.							
Match and tooth-pick holder.							
Mirror-holder.							
Mop-holder.							
Music-holder.							
Music-leaf holder.							
Mustache-holder.							
Napkin-holder.							
Necktie-holder.							
Necktie and scarf holder.							
Oil-can holder.							
Order-holder.							
Package-holder.							
Pamphlet-holder.							
Paper-holder.							
Paper-bag holder.							
Paper-bag and twine holder.							
Parcel-holder.							
Pen-holder.							
Pen and pencil holder.							
Pencil-holder.							
Pencil and crayon holder.							
Pencil or crayon holder.							
Photographer's camera-plate holder.							
Photographic-plate holder.							
Photographic dry-plate holder.							
Picture-frame holder.							
Pillow-sham holder.							
Pipe-nipple holder.							
Pocket-book holder.							
Punch-holder.							
Quilt-holder.							
Rein-holder.							
Ribbon-holder.							
Sack-holder.							
Sad-iron holder.							
Sap-bucket holder.							
Sash-holder.							
Scarf-holder.							
Scissors-holder.							
Sewing-machine-attachment holder.							
Sewing-machine shuttle-holder.							
Sewing-machine spool-holder.							
Shade-holder.							
Sham-holder.							
Soap-holder.							
Spittoon-holder.							
Spooling-machine bobbin-holder.							
Stamp-holder.							
Stencil-holder.							
Stereotype-plate holder.							
Stove-pipe holder.							
Thread-holder.							
Ticket-holder.							
Tool-holder.							
Towel-holder.							
Trace-holder.							
Twine-holder.							
Type-holder.							
Type and space holder.							
Umbrella-holder.							
Watch-holder.							
Whip-holder.							
Whip and rein holder.							
Whisk-broom holder.							
Wig-block holder.							
Yoke-holder.							
Hollow ware. Bailed	D. M. McLean	273,119	Feb. 27	1943	545	23	802
Hominy-mill	W. Stonebraker	285,085	Sept. 18	1144	390	24	1114
Hone. Knife	T. Williams	281,744	July 24	1771	488	24	396

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Honey-comb-foundation machine	E. B. Weed	283,442	Aug. 21	1180	332	24	725
Honey-comb-packing bottle or jar	S. M. Smith	290,131	Dec. 11	938	266	25	1060
Honey-extractor	E. T. Lewis	278,713	June 5	49	15	23	2133
Hoof-cleaner	E. O. Davis	274,570	Mar. 27	1728	480	23	1153
Hoof-trimmer	W. M. Cleeland	271,038	Jan. 23	1493	430	23	305
Hoofs of animals. Apparatus for trimming	J. C. Mullins	290,089	Dec. 11	888	252	25	1050
Hook:							
See Adjustable hook.	Harness-back-band hook.						
Boot and shoe suspension-hook.	Harness check-hook.						
	Hasp-hook.						
Breast-strap hook.	Hat-hook.						
Button-hook.	Hop-vine hook.						
Button and glove hook.	Ice-hook.						
	Lacing-hook.						
Cant-hook.	Ladder-hook.						
Chain swivel-hook.	Neck-wear hook.						
Chandelier suspension-hook.	Policeman's hook.						
	Rein-hook.						
Clothes-hook.	Safety-hook.						
Clothes-line hook.	Screw-hook.						
Clutch-hook.	Snap-hook.						
Coat and cloak hook.	Suspender-hook.						
Cornice-hook.	Suspension-hook.						
Detachable hook.	Swamp and grab hook.						
Fall-block hook.	Trace-hook.						
Fish-trap hook.	Tug-hook.						
Grappling-hook.	Whiffletree-hook.						
Harness-hook.							
Hook	P. Miles	280,388	July 3	62	16	24	13
Hook	P. Miles	280,389	July 3	62	17	24	14
Hook for hats, &c	F. Young	282,023	July 24	2119	580	24	386
Hooks and eyes. Machine for bending screw	E. A. Alpress	270,362	Jan. 9	637	188	23	135
Hoop:							
See Cheese-hoop.	Toy hoop.						
Hoop-bending machine	G. E. Smith	289,936	Dec. 11	700	197	25	1016
Hoop coiling and nailing machine	J. J. Burk	278,773	June 5	119	33, 34	23	2144
Hoop-cutting machine	H. W. Eskildson	273,266	Mar. 6	27	8	23	839
Hoop-cutting machine	J. A. Grant	285,612	Sept. 25	1775	502	24	1234
Hoop-cutting machine	F. L. Wilson	283,942	Aug. 28	1783	504	24	848
Hoop-dressing machine	N. P. Stevens	281,737	July 24	1762	479	24	325
Hoop-fastening for buckets, &c	H. B. Phillips	272,469	Feb. 20	1111	314	23	649
Hoop-fastening for buckets, &c	H. B. Phillips. (Reissue)	10,337	June 5	637	173	23	2231
Hoop-flaring machine	J. Z. Gifford	287,659	Oct. 30	2395	645	25	465
Hoop keeper. Metallic	J. J. Heim	273,076	Feb. 27	1883	529	23	791
Hoop-planer	O. R. Olsen	279,496	June 12	1108	305, 306	23	2319
Hoop-planing machine. Barrel-	H. F. Campbell	272,029	Feb. 13	553	150	23	548
Hoop-preparing mechanism	H. F. Campbell	288,205	Nov. 13	513	143	25	606
Hoop-shaving machine	J. Prince	274,029	Mar. 13	1002	274	23	1013
Hoop-skirt	L. Gallaher	277,263	May 8	935	251	23	1793
Hoop-skirt	H. I. Gould	290,676	Dec. 25	1655	456	25	1199
Hoop-skirt	H. I. Gould	290,677	Dec. 25	1656	457	25	1199
Hoop-skirt	M. Rosenstock	288,863	Nov. 20	1347	370	25	757
Hoops from poles. Machine for sawing	W. Bowker	286,173	Oct. 9	482	133, 134	25	100
Hoops from poles. Machine for sawing	R. Williams	271,672	Feb. 6	104	28	23	458
Hoops from poles. Machinery for sawing barrel-	R. Williams and W. Bowker	272,996	Feb. 27	1790	501	23	774
Hop-drier	J. L. Filkins	285,246	Sept. 18	1337	376	24	1148
Hop-house drying-floor	O. M. Knox	281,273	July 17	1167	323	24	230
Hop-scales from their stems. Machine for separating	J. Müller	285,150	Sept. 18	1229	345	24	1128
Hop-vine hook	J. Lipe	280,639	July 3	362	100	24	64
Hops. Apparatus for treating spent	E. Davies	288,553	Nov. 13	961	264, 265	25	683
Hops. Preserving-	F. A. Bruns	279,127	June 12	657	.....	23	2246
Hopper. Feed-	W. M. Rand	272,321	Feb. 13	908	254	23	610
Horse and hand power	J. A. Adams	285,198	Sept. 18	1280	360	24	1138
Horse-blanket	E. W. Allen	277,184	May 8	850	225	23	1777
Horse-blanket	C. M. Andrews	277,867	May 22	1660	453	23	1931
Horse-blanket	G. Crane	274,177	Mar. 20	1199	330	23	1056
Horse-blanket fastener	A. F. Armstrong and M. K. Waite	290,198	Dec. 18	1020	287	25	1083
Horse-boot	E. Barnard	285,552	Sept. 25	1700	479	24	1220
Horse-boot	J. Miller	288,836	Nov. 20	1316	361	25	751
Horse-boot	J. O'Brien	290,096	Dec. 11	893	254	25	1051
Horse-brushing machine	E. Pennington	290,263	Dec. 18	1107	310	25	1098
Horse-canopy	F. H. Dibble	279,139	June 12	672	185	23	2248
Horse checking and controlling apparatus	H. Gotthelmer	289,406	Dec. 4	40	12	25	894
Horse checking and unchecking device	D. O. Cox	287,419	Oct. 30	2074	564	25	403
Horse-detacher	S. B. and W. Bray	284,804	Sept. 11	797	222	24	1045
Horse-detacher	G. H. Cresse	282,960	Aug. 14	576	163	24	610
Horse-detacher	L. H. Fougeres and G. W. Blair	278,928	June 5	388	106	23	2189
Horse-detacher	E. R. Herring	287,284	Oct. 23	1905	521	25	365
Horse-detacher	O. T. Jones	281,860	July 24	1924	526	24	354
Horse-detacher	A. P. Larsson	290,072	Dec. 11	868	246	25	1047
Horse-detacher	W. S. Martin	288,464	Nov. 13	858	232	25	664
Horse-detacher	W. Y. McPherson	282,347	July 31	2552	699	24	465
Horse-detacher	J. Rissey and W. J. Horton	288,365	Nov. 13	731	198, 199	25	642
Horse-detacher	C. J. Spindle	281,938	July 24	2018	552	24	371
Horse-detacher	S. A. Willson	272,394	Feb. 13	1015	283	23	627
Horse foot-pad	W. Reynolds	272,156	Feb. 13	711	195	23	575
Horse knee-boot	J. Fennell	283,990	Aug. 28	1840	519	24	858
Horse-power	P. Beche	278,853	June 5	247	71	23	2165
Horse-power	J. H. Elward	277,835	May 15	1611	440	23	1917
Horse-power	J. H. Elward	287,259	Oct. 23	1874	513	25	358

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Horse-power	W. B. Ingersoll	279,764	June 19	1420	397	23	239
Horse-power	J. Preston	270,983	Jan. 23	1436	414	23	286
Horse-power	R. F. Rasmussen	280,080	June 26	1813	510	23	965
Horse-power	E. A. Rix	271,123	Jan. 23	1599	459 460	23	329
Horse-power	J. Smith	289,154	Nov. 27	1704	473	25	889
Horse-power	A. Stuart	277,375	May 8	1067	287	23	1216
Horse-power	D. Wolf	289,980	Jan. 2	184	54	23	38
Horse-power	W. H. Worth	276,390	Apr. 24	1876	520 521	23	1570
Horse power and capstan	C. C. Brush	277,216	May 8	884	235	23	1733
Horse-power chain-link	G. E. Burt	283,751	Aug. 28	1556	439	24	887
Horse-power speed-regulator	J. A. Rouse	272,330	Feb. 13	921	256	23	612
Horse-power speed-regulator	J. A. Rouse	287,327	Oct. 23	1959	535	25	375
Horse-power sweep for grinding-mills	E. M. Wilcox	270,531	Jan. 9	866	252	23	179
Horse-power tread	D. S., I. D., and W. D. Heebner	285,129	Sept. 18	1199	336	24	1123
Horse quarter-boot	J. Fennell	288,920	Nov. 13	528	147	25	699
Horse quarter-boot	G. J. Hise and J. H. Fenton	275,655	Apr. 10	1033	279	23	1411
Horse quarter-boot	J. G. Lightford and J. H. Fenton	286,319	Oct. 9	690	184	25	135
Horse quarter-boot	S. Taylor	275,872	Apr. 17	1315	363	23	1467
Horse-tail holder	A. C. Smith	277,431	May 8	1134	305	23	1227
Horse-tail holder	J. C. Vail	289,873	Dec. 11	629	175	25	1003
Horse toe-weight	J. H. Fenton	286,190	Oct. 9	504	139	25	104
Horse-whipping device	G. L. Clark	276,158	Apr. 24	1659	458	23	1535
Horses. Adjustable toe-weight for trotting	C. H. Etter	286,189	Oct. 9	503	139	25	104
Horses. Device for stopping	C. E. Von Schwarz	273,616	Mar. 6	481	129	23	916
Horses' eyes. Screen for protecting	J. Sumner	287,885	Nov. 6	118	35	25	582
Horses' feet. Boot for soaking	W. G. Wild	280,107	June 26	1843	519	23	2461
Horses' feet. Moisture and pressure pad for	L. A. Couilliard	288,211	Nov. 13	590	145	25	697
Horses from cribbing. Device for preventing	J. H. Ellis	275,370	Apr. 10	659	176	23	1247
Horses' heads. Rubber bumper for	G. J. Hise	275,654	Apr. 10	1032	279	23	1411
Horses. Overshoe for	B. Greenaway	287,280	Oct. 23	1900	520	25	364
Horses. Overshoe for	J. W. Smith	288,890	Nov. 20	1369	377	25	782
Horseshoe	J. D. Billings	283,849	Aug. 28	1669	471	24	936
Horseshoe	J. D. Billings	283,850	Aug. 28	1669	471	24	936
Horseshoe	G. W. Bowen	285,215	Sept. 18	1300	366	24	1141
Horseshoe	G. Brandl	271,307	Jan. 30	1926	530	23	370
Horseshoe	J. B. Burr	271,217	Jan. 30	1718	497	23	351
Horseshoe	D. Carey	276,157	Apr. 24	1658	457	23	1535
Horseshoe	E. A. Carroll	275,141	Apr. 3	343	94	23	1355
Horseshoe	O. M. Chase	279,223	June 12	759	210	23	2263
Horseshoe	J. N. Clarke	285,573	Sept. 25	1734	487	24	1226
Horseshoe	D. Crane	289,504	Dec. 4	167	46	25	915
Horseshoe	T. Doyle	271,228	Jan. 30	1730	501	23	353
Horseshoe	I. Fenno	289,402	Dec. 4	36	11	25	903
Horseshoe	F. A. Gauer	270,784	Jan. 16	1190	343	23	907
Horseshoe	H. Gourdin	273,677	Mar. 6	564	149	23	939
Horseshoe	F. M. Hartman	285,951	Sept. 18	1354	382	24	1152
Horseshoe	A. C. Hawes	280,816	July 10	598	167	24	113
Horseshoe	T. Head	287,024	Oct. 23	1577	435	25	304
Horseshoe	G. Heidel	280,819	July 10	601	168	24	113
Horseshoe	H. Holland	278,015	May 22	1838	501	23	1961
Horseshoe	G. B. Howie	287,833	Nov. 6	53	16	25	517
Horseshoe	W. Kirchen	272,963	Feb. 27	1753	490	23	767
Horseshoe	J. A. Maguire	274,800	Mar. 27	1996	555	23	1292
Horseshoe	J. J. Merveap	283,132	Aug. 14	783	220	24	646
Horseshoe	J. Nester	280,658	July 3	382	107	24	66
Horseshoe	J. Nester	290,091	Dec. 11	889	253	25	1051
Horseshoe	R. O'Hara and C. H. Remington	282,108	July 31	2237	615	24	413
Horseshoe	H. Olson	272,750	Feb. 20	1471	413	23	712
Horseshoe	F. C. Rollins	286,640	Oct. 16	1083	292	25	212
Horseshoe	E. and V. D. Simar	281,932	July 24	2011	551	24	370
Horseshoe	F. W. Steiner	283,434	Aug. 21	1172	329	24	712
Horseshoe	E. S. Thurber	270,154	Jan. 2	385	112	23	5
Horseshoe	E. S. Thurber	274,853	Mar. 27	2054	573	23	1512
Horseshoe	E. S. Thurber	276,647	May 1	128	34	23	1669
Horseshoe	R. Weston	270,713	Jan. 16	1101	315	23	920
Horseshoe	J. W. White and J. C. Farmer	280,889	July 10	621	191	24	157
Horseshoe	R. G. Wilcox	271,008	Jan. 23	1465	421	23	301
Horseshoe	C. F. A. Zincke	289,330	Nov. 27	1917	533	25	870
Horseshoe. Adjustable	P. Hicks	279,758	June 19	1414	395	23	2273
Horseshoe and calk therefor	E. S. Thurber	274,851	Mar. 27	2052	572	23	1211
Horseshoe attachment for marshy ground	F. W. Moldenhauer	280,216	June 26	1963	553	23	2463
Horseshoe-blank roll	J. N. Clarke	275,022	Apr. 3	189	50	23	1257
Horseshoe-calk	G. W. Martin	279,408	June 12	1007	279	23	2283
Horseshoe-calk. Adjustable	G. W. Nickerson	280,071	June 26	1802	507	23	2453
Horseshoe-calk. Detachable	J. Joadwine	276,694	May 1	2205	53	23	1659
Horseshoe-calk. Removable	F. Fawcett	272,672	Feb. 20	1373	385	23	695
Horseshoe-calks. Sharpening	C. F. Elmes	283,385	Aug. 21	1112	314	24	712
Horseshoe. Detachable	J. Thomas and B. Betzer	289,177	Nov. 27	1725	481	25	883
Horseshoe-nail-blank-finishing machines. Automatic feeder for	H. A. Wills and J. D. Kingsland	275,558	Apr. 10	903	245 246	23	1389
Horseshoe-nail blanks. Finishing	W. W. Miner	287,150	Oct. 23	1732	474	25	334
Horseshoe-nail blanks. Machine for finishing	J. B. Wills	287,206	Oct. 23	1808	496	25	347
Horseshoe-nail machine	W. Werts	280,268	June 26	2029	570 571	23	2483
Horseshoe-nail machine	J. D. Wilkinson	284,934	Sept. 11	946	266	24	1073
Horseshoe-nails. Machine for assorting	J. B. Husted	277,488	May 15	1297	324	23	1486
Horseshoe-nails. Machine for forging	R. Ross	277,063	May 8	695	181 182	23	1731
Horseshoe-nails. Machine for making	J. A. Coleman	286,390	Oct. 9	708	297 298	25	159
Horseshoe-nails. Machine for making	J. A. Coleman	286,391	Oct. 9	770	298 299	25	159

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Dr'g.	Official Gazette. Vol.	Page.
Horseshoe-nails. Machine for rolling	E. Croft	285,800	Oct. 2	22	7, 8	25	6
Horseshoe. Self-sharpening	T. W. Leonard	269,947	Jan. 2	150	44	23	31
Horseshoe. Soft-ground	L. Brigham	285,562	Sept. 25	1710	483	24	1222
Horseshoe. Soft-ground	L. Brigham	285,563	Sept. 25	1711	483	24	1222
Horseshoeing implement	B. F. Pinson, Jr	275,698	Apr. 10	1079	295	23	1419
Horseshoeing-stand	W. D. Coffey	286,389	Oct. 9	766	207	25	149
Hose	C. Callahan	278,312	May 29	2234	619	22	2038
Hose and pipe coupling	W. I. Mann	270,323	Jan. 9	590	174	23	125
Hose and rope reel	T. R. Ellerbeck and A. C. Young	286,408	Oct. 9	792	213	25	154
Hose-carriage	S. T. Holly	274,771	Mar. 27	1965	546, 547	23	1196
Hose-carriage	J. Pusey	271,738	Feb. 6	181	49	23	472
Hose-cart	J. T. Noble	280,323	June 26	2100	590	23	2506
Hose clamp-handle and wrench. Combined	L. Kinzel	283,714	Aug. 21	1501	423	24	785
Hose-coupling	W. G. Abel	290,195	Dec. 18	1017	287	25	1083
Hose-coupling	D. S. Blue	290,663	Dec. 25	1659	451	25	1196
Hose-coupling	J. B. Genin	283,771	Aug. 28	1578	446	24	811
Hose-coupling	G. M. Gerhauser	280,169	June 26	1905	536	23	2472
Hose-coupling	F. Hickman	270,065	Jan. 2	279	82	23	57
Hose-coupling	J. H. Luther	274,951	Apr. 3	87	24	23	1240
Hose-couplings. Device for truing misshapen	J. A. Wheelock	284,107	Aug. 28	2002	558	24	885
Hose. Electric conductor for fire-	C. M. Bowman	290,844	Dec. 25	1875	517, 518	25	1238
Hose-exhibitor	O. W. Conner	275,887	Apr. 17	1333	367	23	1470
Hose-fastener	E. B. Preston	282,466	July 31	2703	743	24	491
Hose-fastener	E. B. Preston	282,467	July 31	2704	743	24	491
Hose-jumper	W. B. Thomas	287,341	Oct. 23	1975	540	25	378
Hose. Manufacture of rubber-lined	J. E. Gillespie	275,638	Apr. 10	1015	.....	23	1407
Hose-nozzle	F. Hickman	270,064	Jan. 2	279	82	23	57
Hose or tubing	E. L. Perry	289,854	Dec. 11	605	169	25	1000
Hose-pipe nozzle	T. Haley	278,008	May 22	1827	499	23	1959
Hose pipes and sprinklers. Standard for garden-	F. O. Worthley	271,562	Jan. 30	2159	621	23	428
Hose-protector	C. T. Bodifield and J. Arnett	289,381	Dec. 4	12	4	25	889
Hose-reel	A. Billings	289 960	Dec. 11	727	205	25	1021
Hose-reel	J. E. Gillespie	275 637	Apr. 10	1014	274	23	1407
Hose-reel	I. W. McGaffey	286,046	Oct. 2	328	91	25	60
Hose-reel	C. H. Shaffer	290,806	Dec. 25	1831	506, 507	25	1231
Hose-reel and ladder-truck. Combined	C. H. James	275,493	Apr. 10	825	223	23	1375
Hose-reel. Automatic	L. W. Stockwell. (Reissue)	10,412	Nov. 27	1971	548	25	879
Hose-strap and means of attachment	E. R. Barbour	289,600	Dec. 4	286	80	25	938
Hose-supporter	W. R. Clough	288,161	Nov. 6	453	126	25	587
Hospital-crane	A. B. Morrison	290,088	Dec. 11	887	252	25	1050
Hot-air and gas engine	L. H. Nash	278,257	May 22	2145	589	23	2014
Hot-air engine	T. McDonough	278,446	May 29	2408	656, 657	23	2069
Hot-air engine	S. Wilcox	289,481	Dec. 4	131	37, 38	25	910
Hot-air engine	S. Wilcox	289,482	Dec. 4	135	38, 39	25	910
Hot-air engine. Double-acting	G., O., and W. Eimecke	270,036	Jan. 2	246	72	23	51
Hot-air furnace	C. B. Boynton	289,967	Dec. 11	739	209	25	1024
Hot-air furnace	C. B. Cutler	280,455	July 3	147	39. 40	24	28
Hot-air furnace	H. J. Pelstring	281,551	July 17	1511	415, 416	24	278
Hot-air-furnace setting	E. S. Hutchinson	273,993	Mar. 13	958	264	22	1006
Hot-air magazine	J. H. Spurrier	286,648	Oct. 16	1094	294	25	214
Hot-air register	P. W. Nolan	270,832	Jan. 16	1243	358	23	258
Hot-bed and other frames for plants	J. A. Tracht	282,242	July 31	2410	664	24	442
Hotel-indicator	R. S. Hering	275,210	Apr. 3	424	116	23	1299
House: *See* Drying-house. Ice-freezing house. Gin-house.							
House	F. W. Lawrence	288,072	Nov. 6	349	97	25	567
House. Apartment-	E. T. Hatch	288,332	Nov. 13	681	187	25	633
House heater. School-	J. Voegtle	270,706	Jan. 16	1093	313	23	229
House. Portable	E. Lee	290,991	Dec. 25	2072	570	25	1270
Houses. Construction of	L. Haas	274,315	Mar. 20	1376	378	23	1086
Hub	W. G. Morris	286,471	Oct. 9	861	234	25	167
Hub	W. Newlin	283,271	Aug. 14	961	268	24	679
Hub and axle. Vehicle	G. H. Simmons	273,618	Mar. 6	484	130	23	917
Hub-attaching device	T. A. Crabtree	289,627	Dec. 4	314	88	25	943
Hub-attaching device	J. Curtin	278,513	May 29	2489	680	23	2084
Hub-attaching device	H. M. Hall	278,942	June 5	401	110	23	2192
Hub-attaching device	J. W. Nunn	287,311	Oct. 23	1941	530	25	371
Hub-attaching device	G. W. Patterson	277,425	May 8	1125	309	23	1626
Hub-attaching device	H. F. Phillips	282,767	Aug. 7	355	100	24	502
Hub-band	G. W. Endebrock	289,339	Nov. 27	1927	535	25	872
Hub-band	C. E. Jones and C. H. Billings	270,547	Jan. 9	886	257	23	183
Hub-band	A. S. Parker	274,136	Mar. 20	1148	316	23	1046
Hub-boring machine	E. Caswell	282,495	Aug. 7	19	5	24	504
Hub-boring machine	J. T. Deterer	274,470	Mar. 27	1582	434	23	1130
Hub-boring machine	H. A. Moyer. (Reissue)	10,360	July 31	2719	748, 749	24	494
Hub. Carriage-	C. K. Wilcox	290,724	Dec. 25	1726	476	25	1213
Hub for couplings or pulleys	R. Whitehill	279,623	June 19	1260	349	23	2352
Hub for traction-wheels	A. Jillson	278,021	May 22	1844	503	23	1962
Hub. Metallic	J. Douglass	287,645	Oct. 30	2374	640	25	460
Hub. Vehicle-	W. Caswell	275,993	Apr. 17	1453	400	23	1492
Hub. Vehicle-	P. Moran	280,217	June 26	1964	553	23	2483
Hub. Vehicle-	E. P. Newman	276,706	May 1	220	56	23	1662
Hub. Vehicle-	V. A. Sallot	288,121	Nov. 6	409	115	25	579
Hub. Vehicle-wheel	M. L. Senderling	277,355	May 8	1046	281	23	1813
Hub. Vehicle-wheel	A. W. Stevens	270,257	Jan. 9	510	150	23	110
Hub. Vehicle-wheel	M. Tidd	279,692	June 19	1573	441	23	2407
Hub. Wheel-	M. C. Johnson	273,548	Mar. 6	397	106	23	902

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Huller: *See* Pea-huller. Rice-huller. Seed-huller. Wheat-huller.							
Hydrant	J. P. Farley	289,903	Dec. 11	667	186	25	1010
Hydrant	W. H. Fromm	270,782	Jan. 16	1186	342	23	247
Hydrant	W. Kaiser	278,435	May 29	2395	653	23	2067
Hydrant	W. Vadersen and F. L. Träder	286,508	Oct. 9	907	245	25	175
Hydrant	P. White	270,354	Jan. 9	628	185	23	139
Hydrant. Fire-	W. H. Leonard	287,554	Oct. 30	2944	609	25	437
Hydrant. Non-freezing	H. Fletter	287,815	Nov. 6	31	10	25	513
Hydrant-valve	W. Kaiser	284,021	Aug. 28	1902	533	24	867
Hydraulic and other elevators	G. N. Reiff	278,739	June 5	81	23, 24	23	2137
Hydraulic elevator	N. C. Bassett	290,660	Dec. 25	1635	450	25	1195
Hydraulic elevator	J. A. Lesourd and J. Lotan	286,451	Oct. 9	841	228	25	164
Hydraulic elevator	W. H. Milliken	281,781	July 24	1894	498	24	336
Hydraulic jack	D. Drawbaugh	288,697	Nov. 20	1145	315	25	781
Hydraulic jack	T. O. Hutchinson	280,315	June 26	9090	588	23	2504
Hydraulic jack	O. H. Mechem	273,879	Mar. 13	821	222	23	982
Hydraulic jack	J. C. Tanner	271,154	Jan. 23	1635	470	23	339
Hydraulic motor	H. Baumotte	286,374	Oct. 9	749	201	25	146
Hydraulic motor	E. B. Benham and H. B. Richardson	276,590	Apr. 24	2117	568, 569	23	1613
Hydraulic motor	P. T. Griffith	290,039	Dec. 11	830	235	25	1040
Hydraulic motor	N. Yagn	273,930	Mar. 13	890	243	23	994
Hydraulic motor for vessels	S. O'Brien	286,477	Oct. 9	867	235	25	168
Hydraulic or other elevator	G. N. Reiff	275,857	Apr. 17	1295	356	23	1462
Hydraulic trap	G. H. Crosby	280,355	July 3	20	5	24	6
Hydrocarbon. Apparatus for generating vapor from liquid	W. H. Brooks	272,373	Feb. 13	973	272, 273	23	621
Hydrocarbon-burner	W. H. Brooks	273,942	Mar. 13	905	247	23	996
Hydrocarbon-burner	S. H. Douglas	272,863	Feb. 27	1034	457	23	749
Hydrocarbon-burner and apparatus for burning hydrocarbons.	W. Jasper	275,390	Apr. 10	693	184, 185	23	1353
Hydrocarbon-engine	F. O. Wellington	278,065	May 22	1889	518	23	1971
Hydrocarbon fluids. Process of and furnace for burning	C. Holland	275,490	Apr. 10	822	223	23	1375
Hydrocarbon-furnace	J. B. Archer	279,904	June 26	1595	447	23	2417
Hydrocarbon-furnace	C. Holland	275,382	Apr. 10	681	180	23	1351
Hydrocarbon-furnace	C. Holland	275,488	Apr. 10	819	222	23	1374
Hydrocarbon-furnace	C. Holland	275,489	Apr. 10	820	222	23	1374
Hydrocarbon-furnace	O. D. Orvis	288,477	Nov. 13	875	237, 238	25	668
Hydrocarbon-generator	H. F. Hayden	275,207	Apr. 3	421	115	23	1298
Hydrocarbon liquid to gas or air. Metrical regulator for distributing	W. M. Jackson	280,747	July 3	499	141	24	88
Hydrocarbon-vapor generator and burner	I. R. Blumenberg and H. W. Whiting	275,124	Apr. 3	323	90	23	1292
Hydrogen peroxide. Manufacture of	C. Marchand	273,569	Mar. 6	430	115	23	908
Hydrometer cup and thief	J. David	284,393	Sept. 4	288	80	24	352
Hydropneumatic engine	L. G. Cook	271,040	Jan. 23	1495	431	23	305
Hydropneumatic engine	L. G. Cook	272,656	Feb. 20	1355	380	23	699
Hygrometer	G. A. Ayers	277,533	May 15	1262	339	23	1855
Hygroscope	W. Klinkerfues	275,220	Apr. 3	434	119	23	1300
Ice. Aiding the formation of atmospheric or natural	O. Guthrie	277,024	May 8	646	.....	23	1742
Ice and producing cold. Machine for making	T. H. Day	285,879	Oct. 2	127	36	25	25
Ice and salt mixing apparatus	A. J. Stoll	285,521	Sept. 25	1664	468	24	1212
Ice apparatus	J. Bowes	278,085	May 22	1916	525	23	1975
Ice. Apparatus for handling	R. B. Thomas	277,811	May 15	1583	432	23	1912
Ice. Apparatus for melting anchor	A. H. Martine	279,901	June 19	1586	444	23	2409
Ice. Blocking	G. W. Goodell	286,604	Oct 16	1036	280	25	204
Ice-box	F. Jacoby	271,072	Jan. 23	1541	444	23	313
Ice-chambers. Guard for excluding air from	G. Gear	271,623	Feb. 6	48	13	23	449
Ice-chest	C. P. Jackson	274,337	Mar. 20	1411	387	23	1092
Ice-chest and reservoir. Combination	C. D. Morin	271,100	Jan. 23	1573	453	23	318
Ice-cream dasher	T. Mills	278,997	June 5	467	128	23	2203
Ice-cream freezer	D. S. Coskrey	275,159	Apr. 3	354	97	23	1288
Ice-cream freezer	D. W. Curtis	289,336	Nov. 27	1924	535	25	871
Ice-cream freezer	F. Espel	274,298	Mar. 20	1356	372	23	1089
Ice-cream freezer	F. Espel	277,250	May 8	924	247	23	1791
Ice-cream freezer	R. W. Furnas	280,734	July 3	479	135	24	85
Ice-cream freezer	H. O. King	273,107	Feb. 27	1932	541	23	799
Ice-cream freezer	C. W. Packer	272,752	Feb. 20	1473	414	23	713
Ice-cream freezer	W. Rogers and T. A. Maher	278,276	May 22	2165	596	23	2017
Ice-cream freezer	T. Sands	275,418	Apr. 10	726	193	23	1359
Ice-cream, &c. Non-heat-conducting envelope for	M. T. Fussell	271,698	Feb. 6	135	37	23	463
Ice-cream, &c. Non-heat-conducting package for	J. H. Empson	281,851	July 24	1914	522	24	352
Ice-creeper	I. I. Bush	276,156	Apr. 24	1657	457	23	1534
Ice-creeper	H. Cottrell	286,687	Oct. 16	1145	308	25	223
Ice-creeper	A. W. Eichelberger	272,669	Feb. 20	1369	384	23	694
Ice-creeper	A. Geiger	282,305	July 31	2493	685	24	455
Ice-creeper	N. C. Jones	278,337	May 29	2275	622	23	2045
Ice-creeper	G. L. Lyon	288,647	Nov. 20	1080	296	25	711
Ice-creeper	C. R. Peyton	284,571	Sept. 4	503	141	24	989
Ice-creeper	I. G. Treat	286,940	Oct. 9	559	153	25	113
Ice-creeper	L. Young	290,165	Dec. 11	973	275	25	1067
Ice cutter and harvester	C. B. Church	281,751	July 24	1778	484	24	328
Ice-cutting machine	A. C. Chaplin	271,290	Jan. 30	1721	498	23	353
Ice-cutting machine. Manual-power	A. L. and P. Stauffer	287,883	Nov. 6	116	34	25	528
Ice-cutting machine. Steam	J. Jamieson	273,998	Mar. 13	966	266	23	1007
Ice-elevator	H. A. Clapp and C. F. Baker	286,116	Oct. 2	414	113	25	76
Ice-elevator	H. A. Clapp and C. F. Baker	290,536	Dec. 18	1475	408	25	1161
Ice-freezing house. Portable	A. Von Krause	276,508	Apr. 24	2101	584	23	1610
Ice-harvester	C. B. Church	281,752	July 24	1779	484, 485	24	328
Ice harvesting and oading machine	M. Breckheimer	285,791	Oct. 2	13	4	25	5

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ice-hook	J. Winebrener	277,437	May 8	1141	307	23	1828
Ice. House for producing and preserving	C. Pohlmann	275,699	Apr. 10	1080	295	23	1419
Ice-machine	W. B. Bushnell	285,460	Sept. 25	1594	448	24	1199
Ice-machine	A. W. Eldredge	277,949	May 8	923	247	23	1791
Ice-machine	S. W. Johnson	288,063	Nov. 6	340	95	25	565
Ice-machine	W. M. Mixer	290,911	Dec. 25	1955	539, 540	25	1252
Ice-machine	T. L. Rankin	270,121	Jan. 2	340	100	23	69
Ice-machine	T. L. Rankin	270,193	Jan. 2	439	124, 125	23	88
Ice-machine	B. Thoens	284,515	Sept. 4	435	123, 124	24	978
Ice-machine	W. M. Wood and W. L. Ballie	283,054	Aug. 14	693	194, 195	24	630
Ice-machine and refrigerating apparatus. Ammonia	H. and R. McManus	282,101	July 31	2225	611, 612	24	411
Ice-machine can	H. F. Fordham	278,527	May 29	2504	684	23	2086
Ice-machine condenser	J. C. Kline	288,450	Nov. 13	841	227	25	662
Ice. Machine for cutting holes through	R. Fitzgerald	286,599	Oct. 16	1030	279	25	203
Ice, &c. Machine for lowering	C. Rundlett	275,863	Apr. 17	1303	358	23	1464
Ice-machines. Gas-valve for	B. Thoens	289,727	Dec. 4	449	125	25	965
Ice-machines. Reservoir attachment for ammonia	P. Small	290,490	Dec. 18	1410	390	25	1150
Ice-making machine	J. C. Kline	274,500	Mar. 27	1639	456	23	1139
Ice-pick	J. A. Wiedersheim	289,738	Dec. 4	461	130	25	967
Ice pick and breaker	P. Nies	285,060	Sept. 18	1115	311	24	1109
Ice pick or cuttter	A. C. Rex	281,644	July 17	1630	445	24	297
Ice-plow	C. E. Kyser	279,653	June 19	1297	360	23	2359
Ice-plow	B. Tryon	273,192	Feb. 27	2030	571	23	818
Ice plows and markers. Guide for	F. J. Fischer	287,428	Oct. 30	2085	566	25	404
Ice. Process of and apparatus for blocking	G. W. Goodell	275,192	Apr. 3	398	109, 110	23	1295
Ice-scraper	L. Hallowell	279,645	June 19	1265	357	23	2357
Ice-shaving machine	M. Gonzales	281,686	July 24	1694	461	24	313
Ice-tongs	J. W. Bowman	289,749	Dec. 4	475	134	25	969
Ice-tongs	G. J. Dickson	287,423	Oct. 30	2081	565	25	404
Ice-tool. Combination	G. M. Patten	277,334	May 8	1024	274	23	1809
Illuminating apparatus	J. and R. Pintsch	282,115	July 31	2256	619	24	415
Illuminating apparatus	E. Warne	288,281	Nov. 13	610	167	25	622
Illuminating-burner	C. Clamond	282,053	July 31	2163	593, 594	24	400
Illuminating-fluids. Time mechanism for lighting and extinguishing	G. P. Ganster	289,926	Dec. 11	566	158	25	992
Illuminating sidewalks or roof to a continuous vault or gallery, &c.	T. Hyatt	289,537	Dec. 4	208	58	25	922
Illuminators. Mast for	P. De Saisset	283,581	Aug. 21	1344	375	24	755
Incandescents. Apparatus for carbonizing	C. G. Perkins	287,315	Oct. 23	1947	532	25	372
Incandescents. Apparatus for carbonizing	C. G. Perkins	287,316	Oct. 23	1948	532	25	372
Incandescents. Apparatus for treating	C. G. Perkins	287,317	Oct. 23	1949	532	25	372
Incandescents. Furnace for baking	W. H. Boulton	284,171	Sept. 4	15	4	24	907
Incandescents. Retort for carbonizing	C. J. Van Depoele	284,779	Sept. 11	766	214	24	1040
Incandescents. Manufacture of	T. A. Edison	274,296	Mar. 20	1354	.....	23	1082
Inclined plane and sled therefor	R. Steel	277,625	May 15	1373	370	23	1873
Incombustible. Rendering manuscripts, &c	G. Meyer	280,500	July 3	203	.....	24	37
Incombustible. Rendering organic substances	H. S. Suilliot and H. David	271,995	Feb. 6	507	.....	23	528
Incrustation. Device for preventing	E. J. Hoffman	270,569	Jan. 9	912	263	23	187
Incrustation preventive	G. Downie	277,122	May 8	773	.....	23	1764
Incrustation-preventive	J. B. Hannay	285,615	Sept. 25	1779	506	24	1235
Incubator	A. H. Morgan	272,744	Feb. 20	1465	412	23	711
Incubator	J. Peterson	271,355	Jan. 30	1899	549	23	382
Incubator	E. S. Renwick	281,398	July 17	1391	365, 366	24	246
Incubator	C. F. Winkler	286,756	Oct. 16	1228	332	25	238
Incubators. Electric regulator and alarm for	F. Rosebrook	271,991	Feb. 6	499	135	23	527
Index	L. B. Tebbetts	288,277	Nov. 13	608	166	25	621
Index	L. B. Tebbetts	288,278	Nov. 13	608	166, 167	25	621
Index	J. H. Wagstaff	285,531	Sept. 25	1676	471	24	1215
Index for machine-tools. Differential	J. M. Seymour	276,292	Apr. 24	1821	507	23	1562
Index-tab	F. Flammger and C. O. Sobinaki	277,836	May 15	1615	440	23	1917
Index-tab for books, &c	G. Ankelen	274,248	Mar. 20	1293	356	23	1072
Indexing books	H. A. Dé Silvéra	283,383	Aug. 21	1110	313	24	712
Indicator:							
See Bilge-water indicator.	Railway time-indicator.						
Boot and shoe indicator.	School-indicator.						
Express-indicator.	Secondary-battery indicator.						
Feed-water-alarm indicator.	Speed-indicator.						
Fire-indicator.	Station-indicator.						
Fire-alarm indicator.	Steam-boiler indicator.						
High and low water indicator.	Steam-engine indicator.						
Interest-indicator.	Stock-indicator.						
Pneumatic indicator.	Telephone-call indicator.						
Post-office-box indicator.	Temperature-indicator.						
Railway-bridge indicator.	Train-indicator.						
	Type-writer or caligraph indicator.						
	Visual indicator.						
	Watch-winding indicator.						
Indicator-lock	M. Welsh	289,196	Nov. 27	1755	488	25	838
Indicator-lock	P. Yoe	274,875	Mar. 27	2091	580, 581	23	1217
Indigo. Manufacture of metamethyl	C. Rudolph	276,890	May 1	456	.....	23	1706
Indigo. Material for the manufacture of metamethyl	C. Rudolph	276,889	May 1	455	.....	23	1706
Indophenols. Treatment of	H. Koechlin and O. N. Witt	275,774	Apr. 10	1184	.....	23	1436

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Induction-coil	G. H. E. Trouvelot	273,643	Mar. 6	514	139	23	923
Infant's seat	A. E. McDonald	289,115	Nov. 27	1656	458 488	25	899
Ingot-buggy	S. C. Collin	281,022	July 10	842	234	24	156
Ingot-manipulator	T. Critchlow	278,511	May 29	2465	679	23	2083
Ingot mold. Steel	F. N. Beazle	290,636	Dec. 18	1569	437	25	1181
Ingot-molds. Plastic refractory material for repairing	T. Smith	284,502	Sept. 4	921	.....	24	975
Ingot-press	E. B. Meatyard	290,448	Dec. 18	1351	374	25	1140
Ingot-scalping machine	C. C. Horn	284,302	Sept. 4	180	51	24	934
Ingots and apparatus therefor. Production of sound	F. A. Krupp	271,717	Feb. 6	154	43	23	467
Inhaler	C. Hilbert	276,968	May 1	567	148	23	1723
Inhaler	G. Meyer	280,321	June 26	2097	589	23	2586
Inhaler	S. A. Morse	281,114	July 10	951	266	24	175
Inhaler	L. W. Nevins	279,265	June 12	810	224	23	2272
Inhaler	W. F. Semple	290,486	Dec. 18	1405	398	25	1150
Inhaler and irrigator. Nasal	J. Keck	285,753	Sept. 25	1956	554	24	1365
Inhaler. Medicinal	J. W. Snyder	290,608	Dec. 18	1569	431	25	1177
Inhaling air-chamber for dental and surgical operations, &c.	E. P. Howland	280,040	June 26	1769	497	23	2447
Injector	H. F. Colvin	284,614	Sept. 11	558	158	24	1085
Injector	J. Dimelow	280,589	July 3	305	84	24	54
Injector	A. S. Eberman	288,039	Nov. 6	313	88, 89	25	561
Injector	E. G. Felthousen and D. L. Volker	283,229	Aug. 14	902	252	24	688
Injector	J. Loftus	290,693	Dec. 25	1678	462	25	1202
Injector	J. H. McPhail	285,498	Sept. 25	1636	460	24	1287
Injector	W. T. Messinger	281,385	July 17	1303	361	24	343
Injector	H. B. Murdock	281,389	July 17	1309	362	24	344
Injector	W. H. Newell	283,013	Aug. 14	642	182	24	681
Injector	D. Renshaw	274,968	Apr. 3	111	31	23	1944
Injector	L. Schutte	276,898	May 1	467	123	23	1707
Injector	E. G. Sheward and J. Gresham	285,171	Sept. 18	1254	352	24	1133
Injector	O. H. Wheeler	273,652	Mar. 6	527	142	23	924
Injector	E. Wohlers	276,319	Apr. 24	1874	520	23	1570
Injector. Air	H. W. Norwood	279,269	June 12	814	225	23	2272
Injector and ejector. Combined	G. H. Little	272,448	Feb. 20	1085	306 307	23	645
Injector. Feed-water	W. McElroy	275,063	Apr. 3	237	65, 66	23	1386
Injector. Medical-powder	M. Mattson	280,202	June 26	1945	546	23	2479
Injector. Oil or water	O. H. Jewell	271,077	Jan. 23	1548	446	23	315
Injector. Ointment	A. W. Brinkerhoff	277,213	May 8	881	234	23	1783
Injector. Steam	J. Desmond	270,937	Jan. 23	1373	396	23	298
Ink-can	W. A. Auble	286,893	Oct. 16	1403	385	25	968
Ink case. Printer's	C. Heller	272,969	Mar. 13	954	263	23	1005
Ink-fountain	C. A. Lieb	277,592	May 15	1322	355	23	1864
Ink-fountain. Printer's	J. R. Rankin	273,605	Mar. 6	470	127	23	914
Ink. Stamping	W. Reissig	277,342	May 8	1032	.....	23	1810
Ink. Writing	E. D. Kendall	273,240	Feb. 27	2096	.....	23	828
Inking apparatus	J. K. Bittenbender	270,886	Jan. 23	1310	378	23	276
Inking-roller. Sectional	W. F. Jones	276,825	May 1	377	100	23	1699
Inkstand	I. Brooke	271,410	Jan. 30	1966	508	23	385
Inkstand	I. Brooke	279,532	June 19	1160	321	23	2334
Inkstand	I. Brooke	280,568	July 3	277	76	24	50
Inkstand	A. Cutler	283,467	Aug. 21	1209	340	24	730
Inkstand	H. B. Jones	283,348	Aug. 14	1058	297	24	698
Inkstand	S. Ustick	280,418	July 3	95	26	24	19
Inkstand. Pocket	O. Jansson	286,703	Oct. 16	1165	314	25	227
Inkstand stopper and tube combined	J. Felt	280,922	July 10	719	202	24	133
Inlaid articles. Manufacturing	G. Hirst	285,619	Sept. 25	1783	507	24	1235
Inlaid frames. Making	A. B. Banghart and C. H. Treat	274,898	Apr. 3	9	2	23	1228
Inlaid metal-work for jewelry, &c	J. Rothschild	281,928	July 24	2006	550	24	368
Inlaid work and producing the same	W. C. Edge	272,032	Feb. 13	556	151	23	549
Inlaid work and producing the same	W. C. Edge	272,033	Feb. 13	557	151	23	549
Inlaying and embossing celluloid	W. F. Weber	275,343	Apr. 3	606	163	23	1328
Insect-catching device	L. P. De Luze	289,997	Dec. 11	779	219	25	1030
Insect-destroyer	W. Grafton	290,877	Dec. 25	1915	528	25	1245
Insect-destroyer	F. D. Loomis and J. B. Dupont	276,613	May 1	84	23	23	1642
Insect-destroyer	J. C. Melcher	288,833	Nov. 20	1313	360	25	751
Insect-destroyer	A. Newkirk	287,704	Oct. 30	2455	661	25	477
Insect-destroyer	H. Perlich	273,144	Feb. 27	1978	556	23	808
Insect-destroyer	H. Perlich	289,553	Dec. 4	227	63	25	926
Insect-destroying apparatus	J. M. Matthews	284,034	Aug. 28	1916	536	24	870
Insect-excluding device	J. L. Wells	274,425	Mar. 20	1517	417	23	1111
Insect-exterminating pad	T. Manahan	276,844	May 1	398	105	23	1696
Insect-powder ejector	J. Jaeger	270,074	Jan. 2	288	85	23	59
Insect-trap	J. F. Bunnell	280,291	June 26	2058	578	23	2499
Insects. Destroying	J. Cole	277,008	May 8	621	.....	23	1738
Insecticide	O. J. Parker and J. Cardy	283,507	Aug. 21	1259	.....	24	739
Insecticide	H. A. Smeltz	274,523	Mar. 27	1672	.....	23	1144
Insecticide compound	J. H. Gibson and J. G. Fish	286,195	Oct. 9	510	.....	25	105
Insecticide mixture	J. C. Richardson	273,695	Mar. 13	846	.....	23	987
Instrument. Combination	J. Hoffman	273,232	Feb. 27	2087	586	23	827
Instrument of precision	L. N. Jackman	283,346	Aug. 14	1055	296	24	698
Insulate, preserve, and protect wire for electrical purposes. Composition to	D. B. Turner	283,044	Aug. 14	682	.....	24	698
Insulated conductor of electricity. Electroplated	N. H. Edgerton	277,248	May 8	922	246	23	1790
Insulated electric conductor	A. A. Cowles	272,659	Feb. 20	1359	381	23	693
Insulated electric conductor	A. A. Cowles	272,660	Feb. 20	1360	381	23	693
Insulated electric conductor	A. A. Cowles	281,841	July 24	1898	518	24	350
Insulated electric conductor	G. S. Eaton	280,153	June 26	1891	532	23	2470
Insulated electric conductor	T. J. Mayall	286,036	Oct. 2	317	89	25	59
Insulated electric conductor	G. W. McGill	287,766	Oct. 30	2544	684	25	493
Insulated electric conductor	H. O. Phillips	287,776	Oct. 30	2556	688	25	495
Insulated electric conductors. Manufacture of	J. F. Gilpin	281,864	July 24	1929	527	24	355
Insulated electrical conductor	T. H. Dunham	280,366	July 3	32	9	24	8
Insulated electrical conductor	W. R. Patterson	273,593	Mar. 6	458	123	23	913

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Insulated electrical conductor	W. Smith	277,366	May 8	1058	285	23	1815
Insulated wire for electrical purposes	F. H. Thompson	274,845	Mar. 27	2044	570	23	1210
Insulating, carrying, and laying electric wires	F. W. Brown	288,002	Nov. 6	273	77	25	554
Insulating compound for electric conductors	J. B. Hyde	290,057	Dec. 11	850	.....	25	1043
Insulating compound for electric conductors	S. F. Shelbourne	275,422	Apr. 10	730	.....	23	1360
Insulating compound for electric conductors and compounding the same.	J. B. Hyde	290,058	Dec. 11	850	.....	25	1043
Insulating compound for electric wires	R. S. Waring. (Reissue)	10,351	July 3	553	.....	24	97
Insulating compound for electrical conductors and apparatus for compounding and applying the same.	J. B. Hyde	281,999	July 24	2087	572	24	382
Insulating compound for electrical conductors and apparatus for compounding the same.	J. B. Hyde. (Reissue)	10,403	Nov. 6	503	139	25	595
Insulating compound for electrical wires	J. F. Martin	274,622	Mar. 27	1788	.....	23	1164
Insulating-covering for telegraph-wires. Metallic	E. Clark	287,236	Oct. 23	1847	505	25	354
Insulating electric conductors	H. O. Phillips	286,220	Oct. 9	537	147	25	109
Insulating electric conductors. Machine for	H. O. Phillips	285,672	Sept. 25	1842	526	24	1246
Insulating electrical conductors	H. O. Phillips	285,673	Sept. 25	1843	526	24	1246
Insulating electrical conductors	J. G. Sanderson	276,891	May 1	457	122	23	1707
Insulating electrical conductors and a new compound suitable to be used for this and other purposes.	W. Smith	276,916	May 1	488	.....	23	1711
Insulating electrical conductors. Machine for	J. Kruesi	288,454	Nov. 13	845	228, 229	25	662
Insulating material	C. J. Van Depoele	287,346	Oct. 23	1982	541	25	379
Insulating material and preparation of the same	R. S. Waring	284,098	Aug. 28	1992	.....	24	883
Insulating material. Electrical	J. Greives	278,536	May 29	2515	.....	23	2088
Insulating material for electrical uses	R. S. Waring and J. B. Hyde. (Reissue.)	10,350	July 3	552	.....	24	97
Insulating materials or articles. Preparation or production of	J. A. Fleming	284,289	Sept. 4	162	.....	24	931
Insulating material to electric wires. Apparatus for applying	J. B. Hyde. (Reissue)	10,404	Nov. 6	504	139	25	595
Insulating substances. Apparatus for filling cables with	W. R. Patterson	284,226	Sept. 4	90	25	24	920
Insulating substances. Filling telegraph-cables with	W. R. Patterson	273,592	Mar. 6	456	122, 123	23	912
Insulating subterranean electric cables. Mold for	S. F. Shelbourne	275,423	Apr. 10	732	194	23	1360
Insulating telegraph-wires	T. A. Smyth	278,753	June 5	97	28	23	2140
Insulating underground electric wires	W. M. Brisben	278,087	May 22	1917	526	23	1976
Insulating wire for electric purposes	J. J. C. Smith	277,519	May 15	1239	334	23	1852
Insulating wires for electric uses. Process of and apparatus for	R. S. Waring and J. B. Hyde. (Reissue.)	10,349	July 3	550	153	24	97
Insulating-wrapper for grouped electrical conductors	J. H. Kohmescher	286,829	Oct. 16	1320	360	25	254
Insulation of electrical conductors	W. S. How	285,267	Sept. 18	1359	383	24	1153
Insulation of wires for telegraph-lines	T. J. Mayall	286,035	Oct. 2	316	88	25	59
Insulator	B. A. Fiske and S. D. Mott	286,801	Oct. 16	1284	347	25	248
Insulator	N. Rousseau	289,449	Dec. 4	91	26	25	903
Insulator. Acoustic and electric	W. J. Bowen	286,681	Oct. 16	1136	306	25	222
Insulator and lightning-arrester. Combined	J. E. Noble	280,324	June 26	2101	590	23	2506
Insulator brackets. Machine for making telegraph-	J. B. Smith	278,618	May 29	2611	712	23	2105
Insulator. Electric-wire	J. F. Martin	286,946	Oct. 16	1471	404	25	279
Insulator. Electric-wire	J. F. Martin	287,146	Oct. 23	1728	473	25	333
Insulator. Electric-wire	W. H. Reiff	274,821	Mar. 27	2020	562	23	1206
Insulator. Electrical	D. M. Steward	271,994	Feb. 6	506	136	23	528
Insulator. Electrical	D. M. Steward. (Reissue)	10,344	June 19	1589	445	23	2410
Insulator. Electrical-wire	J. F. Martin	286,937	Oct. 16	1455	400	25	277
Insulator for electric conductors	T. Mace	272,069	Feb. 13	603	163	23	556
Insulator for electrical conductors	P. C. Ohl	280,947	July 10	759	210	24	139
Insulator for electrical conductors	F. L. Pope	290,022	Dec. 25	1969	543	25	1254
Insulator for telegraph-wires	J. S. Lewis	276,839	May 1	393	104	23	1695
Insulator for the suspension of electrical wire conductors.	P. Higgs and W. Courtenay	269,933	Jan. 2	130	39	23	27
Insulator for underground electric conductors	J. F. Martin	286,944	Oct. 16	1468	403	25	279
Insulator for underground electric conductors	J. F. Martin	286,947	Oct. 16	1472	404	25	279
Insulator pins. Machine for making telegraph-	J. B. Smith	278,619	May 29	2613	712, 713	23	2105
Insulator. Telegraph-	T. L. Chapman	281,452	July 17	1398	384	24	258
Insulator. Telegraph-	C. C. Hinsdale	287,830	Nov. 6	50	15	25	516
Insulator. Telegraph-	S. Oakman	288,360	Nov. 13	716	196	25	640
Insulators. Apparatus for making glass	M. Johnson	282,989	Aug. 14	605	171	24	615
Insulators. Compound for electric-wire	J. F. Martin	282,914	Aug. 7	521	146	24	593
Insulators for electric wires. Coupling for tubular	J. F. Martin	286,941	Oct. 16	1462	401, 402	25	278
Insulators for electric wires in underground conduits. Supporting	J. F. Martin	286,943	Oct. 16	1467	403	25	279
Interest-indicator	H. E. Jenne	287,290	Oct. 23	1914	524	25	366
Interlocking apparatus	A. G. Cummings	270,024	Jan. 2	233	68	23	48
Interlocking switch and signal. Electric	O. Gassett and I. Fisher	276,138	Apr. 17	1632	450	23	1522
Intestines. Machine for cleaning	F. E. Davis	287,253	Oct. 23	1867	511	25	357
Intestines. Machine for cleaning	C. Nida	289,302	Nov. 27	1877	521, 522	25	862
Intrenching implement	N. W. Wallace	285,188	Sept. 18	1272	357	24	1136
Intrenching-tool	G. F. Elliott	285,594	Sept. 25	1751	496	24	1229
Invalid-chair	M. J. Koenig	276,429	Apr. 24	2003	555	23	1593
Invalid-lifter	H. D. Stelle and L. M. Cutting	274,527	Mar. 27	1677	465	23	1145
Iron: *See* Angle-iron. Carriage-iron. Flat-iron. Fluting-iron. Heel-iron. Jump-seat iron. Laundry-iron. Polishing-iron. Pump-iron. Sad-iron. Soldering-iron. Vehicle chafe-iron. Vehicle rub-iron. Waffle-iron. Wagon rub-iron. Wagon-seat iron. Whiffletree-iron.							
Iron and condensing the products. Purifying	J. Henderson	283,241	Aug. 14	919	.....	24	671

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr's.	Official Gazette. Vol.	Official Gazette. Page.
Iron and steel. Basic process for the dephosphorization of	J. Reese	272,085	Feb. 13	683	.....	23	560
Iron and steel. Basic process for the manufacture of homogeneous ingot	J. Reese	284,574	Sept. 4	506	.....	24	969
Iron and steel. Basic process of manufacturing	J. Henderson	283,783	Aug. 28	1597	.....	24	814
Iron and steel. Basic process of manufacturing	J. Henderson	284,552	Sept. 4	475	.....	24	985
Iron and steel. Basic process of manufacturing	J. Henderson	284,553	Sept. 4	476	.....	24	985
Iron and steel. Basic process of manufacturing	J. Henderson	284,554	Sept. 4	477	.....	24	985
Iron and steel coated with magnetic oxide. Depositing metals upon the surfaces of	G. Bower	270,004	Jan. 2	212	.....	23	44
Iron and steel directly from the ore. Apparatus for manufacturing	H. C. Bull	283,266	July 31	2443	672, 673	24	447
Iron and steel fagot	W. G. Howell	276,139	Apr. 17	1634	450	23	1522
Iron and steel. Manufacture of	J. Henderson	274,899	Mar. 27	2107	.....	23	1230
Iron and steel. Manufacturing	J. Henderson	280,310	June 26	2083	.....	23	2504
Iron and steel. Manufacturing	J. Henderson	283,483	Aug. 21	1239	.....	24	734
Iron and steel. Manufacturing	J. Henderson	283,484	Aug. 21	1231	346	24	734
Iron and steel. Plating	H. Reusch. (Reissue)	10,367	Aug. 14	1088	.....	24	702
Iron and steel. Process of and apparatus for producing non-corrodible surfaces on	J. P. Gill	284,000	Aug. 28	1864	525	24	861
Iron and steel. Process of and apparatus for the treatment of	J. P. Gill	283,999	Aug. 28	1860	524	24	860
Iron and steel. Producing ingot	J. Reese	286,067	Oct. 2	354	.....	25	65
Iron and steel surface	J. P. Gill	284,001	Aug. 28	1866	.....	24	861
Iron. Apparatus for purifying	T. H. Burridge	274,717	Mar. 27	1898	529	23	1185
Iron. Apparatus for treating molten	R. H. Gordon	287,273	Oct. 23	1889	517	25	361
Iron-bending machine	W. A. Wren	275,741	Apr. 10	1139	310	23	1428
Iron breaker. Pig	W. R. Havens and J. W. Nesmith	279,949	Feb. 13	893	229	23	595
Iron by means of fluorides and condensing the gaseous products therefrom. Purifying	J. Henderson	279,947	June 26	1650	462, 463	23	2496
Iron. Compound for tempering and hardening	M. L. Healy	290,423	Dec. 18	1395	.....	25	1135
Iron from blast-furnaces. Analyzing pig	S. A. Ford	281,044	July 10	869	.....	24	161
Iron from blast-furnaces. Analyzing pig	S. A. Ford. (Reissue)	10,395	Oct. 23	2050	.....	25	391
Iron from charcoal, &c. Apparatus for separating	D. MacEachran	289,545	Dec. 4	215	60, 61	25	924
Iron. Hardening	H. J. Burr	280,716	July 3	452	.....	24	81
Iron high in carbon and low in silicon. Manufacture of cast-	J. Reese	281,729	July 24	1754	.....	24	323
Iron in an open-hearth furnace. Dephosphorizing	J. Reese	284,233	Sept. 4	98	.....	24	921
Iron in blast-furnaces. Manufacture of	C. Cochrane	284,383	Sept. 4	275	.....	24	950
Iron in the Bessemer basic process. Obtaining purified	J. Reese	279,596	June 19	1230	.....	23	2347
Iron into cast-steel. Process of and apparatus for converting cast-	J. Reese	277,929	May 22	1728	472	23	1942
Iron into fibrous wrought-iron. Converting cast-	J. Reese	286,330	Oct. 9	702	.....	25	137
Iron. Malleableizing	T. A. Edison	273,715	Mar. 13	608	.....	23	946
Iron. Manufacture of sheet	I. E. Craig	280,799	July 10	580	.....	24	109
Iron. Manufacture of wrought	L. D. Chapin	283,074	Aug. 14	714	.....	24	634
Iron or steel without fusion. Purifying solid iron, producing therefrom malleable	J. Henderson	284,551	Sept. 4	473	.....	24	985
Iron. Process of and plant for producing cast-	J. Reese	287,054	Oct. 23	1613	444, 445	23	312
Iron. Purifying molten	W. Griffith	289,085	Nov. 27	1622	.....	25	814
Iron. Purifying molten	W. Griffith	289,086	Nov. 27	1624	.....	25	814
Iron. Purifying molten	W. Griffith	289,087	Nov. 27	1624	.....	25	814
Iron. Purifying molten	W. Griffith	289,088	Nov. 27	1625	.....	25	814
Iron. Purifying molten	W. Griffith	289,089	Nov. 27	1626	.....	25	814
Iron, steel, &c. Manufacturing	J. Henderson	278,013	May 22	1836	.....	23	1961
Iron. Treating	G. Neilson	281,784	July 24	1829	.....	24	337
Iron. Treating	B. Woodruff	286,104	Oct. 2	400	.....	25	73
Iron-ware. Manufacture of enameled	E. Kegreiss	279,094	June 5	595	169	23	2227
Iron-ware vessel. Enameled	W. F. Niedringhaus	290,596	Dec. 18	1549	427	25	1174
Iron-ware vessel. Enameled	W. F. Niedringhaus	290,597	Dec. 18	1550	427	25	1174
Iron-ware vessel. Enameled	W. F. Niedringhaus	290,598	Dec. 18	1560	427	25	1175
Iron wheel	J. L. Schruben and W. F. Leonard	284,074	Aug. 28	1965	547	24	878
Iron with carbonic-acid gas. Purifying	J. F. Bennett	285,786	Oct. 2	8	.....	25	4
Iron with lead. Covering	J. A. Graham	280,466	July 3	168	.....	24	31
Iron. Wrought	W. F. Jordan	270,901	Jan. 23	1331	.....	23	279
Ironing and cutting table. Combined	H. A. Dearborn	282,708	Aug. 7	294	83	24	551
Ironing apparatus	I. D. Warner	279,293	June 12	841	233	23	2277
Ironing-board	J. McClintick	275,836	Apr. 17	1271	349	23	1458
Ironing-board	B. F. Mong	277,324	May 8	1013	272	23	1806
Ironing-board	G. B. Perkins	283,810	Aug. 28	1627	458	24	819
Ironing-board	J. D. Talbott	271,667	Feb. 6	97	26	23	457
Ironing-board	P. F. Weber	287,596	Oct. 30	2314	626	25	449
Ironing board. Bosom	J. O. Welty	284,697	Sept. 11	664	187	24	1023
Ironing-board clamp	H. W. Rose and J. F. Bliss	275,275	Apr. 3	501	138	23	1311
Ironing-board support	T. C. Miller	271,895	Feb. 6	370	102	23	506
Ironing-machine	G. W. Cottingham	282,848	Aug. 7	448	126	24	579
Ironing-machine	J. Powers	275,851	Apr. 17	1288	354	23	1461
Ironing-machine	M. I. Remy	275,081	Apr. 3	267	73	23	1272
Ironing-machine	H. Schmidt	289,148	Nov. 27	1696	470, 471	25	827
Ironing-machine	Z. C. Smith	279,514	June 12	1132	314	23	2322
Ironing machine. Corset	J. Stever	286,238	Oct. 9	556	152, 153	25	112
Ironing-stand	N. Scholl	272,906	Feb. 27	1691	474	23	757
Ironing-table	C. Campbell	275,753	Apr. 10	1157	317	23	1431
Ironing-table	A. J. and A. H. Freid	272,950	Feb. 27	1742	486	23	765
Ironing-table	C. W. L. Hayward	289,097	Nov. 27	1638	454	25	816
Ironing-table	H. D. Parke	273,140	Feb. 27	1973	555	23	807
Ironing-table	J. F. Richmond	289,561	Dec. 4	237	67	25	928
Ironing-table. Folding	L. R. Sample	282,469	July 31	2705	744	24	491
Irrigating agricultural and other lands	M. A. Martindale	272,723	Feb. 20	1442	405	23	708
Irrigating apparatus	J. Robinet	289,448	Dec. 4	90	26	25	902
Ivory. Manufacture of artificial	J. B. Edson	283,225	Aug. 14	696	.....	24	667
Ivory. Method of and apparatus for bleaching	J. Miller	281,780	July 24	1823	498	24	336

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Sec.	Drg.	Vol.	Page.
Jack:							
See Boot-jack. Last-jack. Boot and shoe holding jack. Lever-jack. Lifting-jack. Boot or shoe lasting jack. Power-jack. Screw-jack. Carriage-jack. Sewing-machine jack. Carriage or wagon jack. Shoe-holding jack. Thill-coupling jack. Floor-jack. Wagon-jack. Flooring-jack. Window-jack. Hydraulic jack.							
Jack for raising railway-tracks	J. W. Harrison	269,932	Jan. 2	129	38	23	27
Jacket	I. Schneer	274,591	Mar. 27	1670	464	23	1143
Jacketed vessel	L. Frits	288,990	Nov. 27	1504	416	25	794
Jails, &c. Construction of	S. M. McLean	272,296	Feb. 13	877	245	23	605
Japanning metal sheets or plates	A. N. Hopkins	278,707	June 5	40	12	23	2131
Jar:							
See Fruit-jar.							
Jar	J. L. Wheeler	280,888	July 10	679	191	24	127
Jar and bottle stopper	J. H. Wood	272,893	Feb. 20	1561	439	23	729
Jar-covers. Spring-fastener for	L. N. Peirce	276,276	Apr. 24	1801	502	23	1559
Jar-fastener	T. G. Otterson	285,062	Sept. 18	1117	313	24	1109
Jar-holder	N. Morse	276,064	Apr. 17	1537	423	23	1506
Jaw wrench. Sliding	G. J. Cline	281,456	July 17	1401	385	24	259
Jetty for connecting the channels of rivers, &c	T. E. Buck	275,132	Apr. 3	335	92	23	1283
Jeweler's burnishing-machine	W. W. Covell	283,865	Aug. 28	1686	476	24	929
Jeweler's card and tag cabinet	J. Wiesbauer	271,007	Jan. 23	1464	421	23	300
Jewelers' findings. Manufacture of	G. H. Fuller	286,601	Oct. 16	1033	279	25	204
Jewelers' presses. Feed device for	J. E. Walcott	273,918	Mar. 13	875	237	23	991
Jeweler's show-window	C. Buschor and S. Zweighaft	280,345	July 3	9	3	24	4
Jeweler's tool	C. N. Fairbanks	271,051	Jan. 23	1512	436	23	309
Jewelry	H. M. Daggett, Jr	279,351	June 12	927	258	23	2290
Jewelry. Manufacture of imitation-stone for	H. C. Luther	274,350	Mar. 20	1494	390	23	1095
Jewelry-mounting	L. Richards	271,988	Feb. 6	497	134	23	526
Jewelry-pin joint	H. G. Mackinney	273,564	Mar. 6	423	113	23	907
Jogging apparatus for concrete and the like	H. Reid	273,606	Mar. 6	471	127	23	914
Joint:							
See Belt-joint. Pipe-joint. Carriage-top joint. Pivot-joint. Cornice-pole joint. Rail-joint. Curtain-pole angle-joint. Railway-rail joint. Railway-track joint. Expansion-joint. Sheet-metal joint. Faucet-joint. Sheet-metal-pipe joint. Jewelry-pin joint. Universal joint. Key-joint. Watch-case joint. Knuckle-joint. Water-tight joint. Lightning-rod joint. Wipe-joint. Locked joint.							
Joint-fastener	R. W. Ferguson	281,854	July 24	1916	593	24	353
Joint or coupling for rods, &c	J. E. Langdon	285,493	Sept. 25	1631	458	24	1206
Jointer for dressing angles for joints	J. L. Gobeille	280,613	July 10	593	166	24	111
Journal	D. F. Stayman	283,527	Aug. 21	1277	357	24	749
Journal and stuffing box	W. A. Stone	272,170	Feb. 13	725	200	23	577
Journal-bearing	F. R. Cargill	280,347	July 3	11	3	24	4
Journal-bearing	G. P. Fenner	276,015	Apr. 17	1477	408	23	1496
Journal-bearing	D. A. Hopkins	286,927	Oct. 16	1443	396	25	275
Journal-bearing	D. A. Hopkins. (Reissue)	10,426	Dec. 18	1625	447	25	1187
Journal-bearing	C. E. Tibbles	275,292	Apr. 3	523	143	23	1315
Journal-bearing	E. R. Ware	287,203	Oct. 23	1804	495	25	346
Journal-bearing	S. Wills	286,982	Oct. 16	1517	417	25	287
Journal bearing and box	R. W. Traylor	286,563	Oct. 9	978	263	25	188
Journal-box	B. W. Baldwin	283,950	Aug. 28	1795	508	24	850
Journal-box	S. Benson	276,756	May 1	297	76	23	1676
Journal-box	G. R. Cullingworth	287,006	Oct. 23	1549	427	25	299
Journal-box	G. Sargood and F. L. Hemmer	276,195	Apr. 24	1704	470	23	1542
Journal-box	J. Thomas	279,461	June 12	1063	294	23	2312
Journal-box	W. W. Worswick and N. W. Cutter.	289,053	Nov. 27	1586	439	25	807
Journal-box. Anti-friction	A. Russell	283,421	Aug. 21	1155	326	24	720
Journal-box attachment	E. Curtiss	270,757	Jan. 16	1157	331	23	241
Journal-box cooler	R. C. Morris	284,568	Sept. 4	499	140	24	988
Journal-box for grinding and polishing lathes	J. M. Riley	271,519	Jan. 30	2110	607	23	420
Journal-box lubricator	N. M. Bergqvest	278,309	May 29	2230	612	23	2037
Journal. Compensating	G. S. Rominger	276,287	Apr. 24	1814	505	23	1561
Journal for shafts. Sleeve	J. K. Proctor	288,489	Nov. 13	891	242	25	670
Journal-lubricator	F. Brown	280,569	July 3	278	76	24	50
Journal-lubricator	M. L. Senderling	290,937	Dec. 25	1992	550	25	1258
Journals. Automatically cooling hot	F. O. Matthiessen	270,236	Jan. 9	486	144	23	103
Journals. Compound for cooling and lubricating	G. J. Henninger	288,054	Nov. 6	332	.....	25	564
Journals cool. Device for keeping	T. S. Wilkin	290,159	Dec. 11	967	273	25	1066
Journals. Take-up box for shaft	F. I. Pearce	277,157	May 8	820	216	23	1772
Jug. Non-heat-conducting	M. P. Bousser	277,447	May 15	1159	311	23	1838
Jug-top. Spring	H. Wright	274,244	Mar. 20	1289	355	23	1071
Jump-seat iron	H. A. Willits	284,153	Aug. 28	2066	573	24	895
Jute, butts, and animal-hair. Treating	I. Ohnstein	277,054	May 8	684	.....	23	1749
Keg. Metallic	R. C. Rosensteel	291,004	Dec. 25	2091	576	25	1273
Keg. Nail	A. A. Southwick	274,045	Mar. 13	1017	279	23	1016
Kegs and barrels. Tool for working off	J. A. Seaman	271,660	Feb. 6	90	24	23	456
Kegs. Machine for dressing the interior of	L. and J. A. Weindel	286,661	Oct. 16	1106	298	25	216
Kettle for rendering fats, boiling soap, &c. Jacketed steam-	H. W. Dopp	287,424	Oct. 30	2081	565	25	404
Kettle. Lamp	W. Pountney	281,791	July 24	1840	503	24	339

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kettle-stand	J. Geiger	279,238	June 12	775	214	23	2266
Key: *See* Musical-instrument key. Telegraph-key. Watch-key.							
Key	T. Lincoln	289,284	Nov. 27	1858	516	25	858
Key-fastener	R. Allen	287,991	Nov. 6	260	74	25	552
Key-fastener	J. J. Arend	290,623	Dec. 18	1584	436	25	1180
Key-fastener	W. Dewey	281,247	July 17	1136	312	24	214
Key-fastener	W. H. Flinn	279,930	June 26	1630	457	23	2423
Key-fastener	W. H. Flinn	290,676	Dec. 25	1913	528	25	1245
Key-hole guard	J. Brown	269,824	Jan. 2	4	1	23	3
Key-hole guard	L. Rhoades and J. P. Sipp	285,074	Sept. 18	1130	316	24	1112
Key-hole guard	L. Rhoades and J. P. Sipp	289,446	Dec. 4	88	25	25	902
Key-hole guard	J. Warner	275 553	Apr. 10	899	244	23	1388
Key-hole guard	J. P. Wilkinson	282,018	July 24	2115	579	24	396
Key-joint	W. A. Palmer	283,651	Aug. 21	1417	397	24	769
Key-rack	W. H. Camp	287,623	Oct. 30	2252	634	25	456
Key-ring	G. W. Jopson	276,826	May 1	378	101	23	1692
Key-ring and button-hook. Combined	H. W. Pratt	281,297	July 17	1197	331	24	225
Key-seat-cutting machine	G. W. Bonds	289,060	Nov. 27	1593	441	25	809
Key-seat-cutting machine	W. P. Davis	274,287	Mar. 20	1340	369	23	1080
Key-seat-cutting machine	S. B. Pierce	286,221	Oct. 9	538	147	25	109
Key-seat-milling machine	O. Buchbinder and L. Vogt	281,833	July 24	1889	516	24	348
Key-seat-milling machine	A. H. Campbell	274,906	Apr. 3	17	5	23	1230
Key-seats in hubs of gears, &c. Machine for forming	L. J. Knowles	275,393	Apr. 10	699	186	23	1354
Key-seats. Machine for cutting	L. Cosgrove	280,582	July 3	296	82	24	53
Keys. Machine for making split	R. T. King	277,577	May 15	1317	353	23	1864
Kiln: *See* Brick-kiln. Brick and tile kiln. Charcoal-kiln. Gas and coke kiln. Limekiln. Malt-kiln.							
Kiln for burning brick, tiles, &c	H. McCue	288,466	Nov. 13	861	233	25	665
Kiln for burning tiles, earthenware, &c	D. Laemmle	285,776	Sept. 25	1991	563	24	1269
Kiln for drying kindling-wood	M. J. Shaw	283,673	Aug. 21	1447	405, 406	24	775
Kiln for firing pottery, &c	N. M. Fitch	281,625	July 17	1610	440	24	293
Kiln-head guide	C. F. Lacour	270,444	Jan. 9	751	220	23	155
Kilns. Device for burning gaseous fuel in	B. Loomis	280,838	July 10	624	175	24	116
King-bolts. Die for making clip	N. Eccles	270,404	Jan. 9	699	206	23	146
Kitchen utensil	W. H. H. Smith	285,439	Sept. 25	1570	442	24	1195
Kitchen-ventilator	A. Zerban	273,216	Feb. 27	2067	581	23	823
Kite. Folding	S. E. Kelly	274,340	Mar. 20	1415	388	23	1093
Kites. Reel for flying	J. C. Gunn	274,490	Mar. 27	1629	451	23	1136
Knife: *See* Channeling and grooving knife. Chopping-knife. Drawing-knife. Endless band-knife. Hay-knife. Leather splitting and beveling knife. Mincing-knife. Pocket-knife. Rag-joining knife. Roofing-knife. Veneer-cutting knife.							
Knife	J. W. Gardner	280,599	July 3	313	87	24	56
Knife	H. C. Hart	281,361	July 17	1280	355	24	238
Knife and fork. Folding	T. M. Grilley	288,174	Nov. 6	470	131	25	589
Knife and pencil holder. Automatic	J. Hoffman	290,683	Dec. 25	1664	459	25	1200
Knife-blade holder	C. W. Boman. (Reissue)	10,335	June 5	634	172	23	2231
Knife-blade holder	C. W. Boman	273,222	Feb. 27	2073	583	23	825
Knife-blades. Marking	M. Schweizer	288,369	Nov. 13	736	200	25	643
Knife-box	D. Block	283,066	Aug. 14	706	198	24	633
Knife-brick box and grinder. Combined	J. F. Wood	290,619	Dec. 18	1560	434	25	1179
Knife-cleaning machine	H. F. Hambruch	271,841	Feb. 6	310	85	23	495
Knife-cleaning machine	W. H. D. Jones	281,885	July 24	1955	534	24	300
Knife-cleaning machine	E. M. Knight	285,278	Sept. 18	1372	387	24	1155
Knife-edging machine	J. A. Stephens	272,345	Feb. 13	937	260	23	614
Knife-grinder	T. A. Myers	288,099	Nov. 6	385	109	25	574
Knife grinder and sharpener. Horizontal	M. O. Millar	279,785	June 19	1442	404	23	2384
Knife-handle	G. S. Hastings	277,132	May 8	793	208	23	1767
Knife or tool handle	P. Lincoln	286,209	Oct. 9	525	144	25	107
Knife-scourer	C. Kinney	273,368	Mar. 6	172	47	23	863
Knives and forks to handles. Securing	T. C. Richards	277,932	May 22	1733	472	23	1943
Knives and saws. Mechanism for straightening and keeping straight band	S. E. and J. E. Furlong	284,957	Sept. 11	977	275	24	1078
Knit fabric	R. Ward	283,047	Aug. 14	685	192	24	629
Knit fabric and constructing the same	S. M. Levy	280,750	July 3	502	142, 143	24	89
Knit fabrics. Machine for uniting	W. Pearson	273,143	Feb. 27	1977	555, 556	23	808
Knit goods. Manufacture of	S. Arnold	278,486	May 29	2454	669	23	2077
Knit stocking	C. B. Alling	285,201	Sept. 18	1284	361	24	1139
Knitted fabrics to woven fabrics, &c. Mechanism for attaching	W. Girling	288,326	Nov. 13	670	185	25	632
Knitted goods. Machine for napping and brushing	G. Jackson	277,489	May 15	1209	325	23	1847
Knitting-gloves	R. Liebeskind	286,452	Oct. 9	843	228	25	164
Knitting-machine	J. Adams	270,275	Jan. 9	527	155	23	113
Knitting-machine	W. Aiken	279,902	June 26	1593	447	23	2417
Knitting-machine	J. L. Branson. (Reissue)	10,271	Jan. 16	1296	374	23	267
Knitting-machine	J. R. Bridges	270,928	Jan. 23	1362	392, 393	23	284
Knitting-machine	W. Carter	272,529	Feb. 20	1190	332, 333	23	663
Knitting-machine	J. Chapman	290,972	Dec. 25	2048	563, 564	25	1266

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Knitting-machine	W. W. Clay	277,004	May 8	616	161, 162	23	1738
Knitting-machine	W. Esty	276,146	Apr. 17	1643	453	23	1524
Knitting-machine	J. Heginbothom	286,003	Oct. 2	274	77	25	52
Knitting-machine	W. D. Huse	271,071	Jan. 23	1539	443, 444	23	313
Knitting-machine	J. P. Kidder	274,947	Apr. 3	82	22, 23	23	1239
Knitting-machine	G. A. Leighton	272,560	Feb. 20	1225	342, 343, 344	23	669
Knitting-machine	G. A. Leighton	272,561	Feb. 20	1237	345	23	671
Knitting-machine	G. Lindley, Jr	277,299	May 8	982	264	23	1801
Knitting-machine	S. Lowe and J. W. Lamb	270,682	Jan. 16	1060	303, 304, 305	23	223
Knitting-machine	N. Marshall	288,648	Nov. 20	1081	207, 208	25	711
Knitting-machine	W. H. Mayo	274,208	Mar. 20	1238	340, 341	23	1062
Knitting-machine	J. H. Osborne	285,155	Sept. 18	1233	346, 347	24	1129
Knitting-machine	W. Roberts	284,673	Sept. 11	630	178, 179	24	1017
Knitting-machine	L. E. Salisbury	284,905	Sept. 11	909	256, 257	24	1067
Knitting-machine	A. Ward	280,886	July 10	676	190, 191	24	126
Knitting-machine	S. Woodward	288,962	Nov. 20	1467	405	25	780
Knitting-machine bobbin-holder	W. Denton	270,208	Jan. 9	451	132	23	99
Knitting-machine burr	S. G. Hall	275,198	Apr. 3	406	112	23	1296
Knitting-machine burr	S. G. Hall	275,199	Apr. 3	407	112	23	1296
Knitting-machine burr and means for supporting the same.	G. W. Cummings	284,283	Sept. 4	155	43	24	930
Knitting machine. Circular-	G. A. Leighton	272,559	Feb. 20	1223	342	23	669
Knitting machine. Circular-	J. H. Osborne	277,603	May 15	1345	362	23	1868
Knitting machine. Circular rib-	H. P. Ballou	284,591	Sept. 11	529	150	24	999
Knitting-machine feed-guide attachment	P. I. Harvey	279,380	June 12	972	269	23	2297
Knitting-machine needle	G. H. Adams	282,029	July 31	2129	585	24	305
Knitting-machine needle	L. E. Salisbury	287,175	Oct. 23	1708	485	25	340
Knitting-machine stop-motion mechanism	W. Diebel	278,894	June 5	297	86	23	2174
Knitting-machine thread-guide mechanism	J. Bradley	270,276	Jan. 9	530	155	23	114
Knitting stockings	R. Schofield	288,186	Nov. 6	484	124	25	592
Knob	G. Cooper	283,380	Aug. 21	1108	312	24	712
Knob alarm. Door-	A. T. Boone	270,199	Jan. 9	439	129	23	97
Knob attachment	J. K. Clark	284,381	Sept. 4	269	75	24	950
Knob attachment	T. H. P. Dennis	284,396	Sept. 4	291	81	24	953
Knob attachment	J. Kirby, Jr	281,701	July 24	1716	466	24	317
Knob attachment	F. Lattimer	271,479	Jan. 30	2062	593	23	412
Knob attachment	F. Lattimer	290,247	Dec. 18	1082	302	25	1004
Knob attachment	W. N. Mills	283,134	Aug. 14	785	220	24	646
Knob attachment	J. B. Morris	283,718	Aug. 21	1506	424	24	786
Knob attachment	E. L. Phipps	273,763	Mar. 13	684	183	23	959
Knob attachment	E. L. Phipps	289,305	Nov. 27	1881	524	25	863
Knob attachment	R. S. Watson	276,942	May 1	536	138	23	1717
Knob attachment. Door-	C. B. Brown	273,943	Mar. 13	906	247	23	996
Knob attachment. Door-	W. F. Hall	278,704	June 5	38	11	23	2131
Knob attachment. Door-	E. L. Phipps	284,893	Sept. 11	894	253	24	1064
Knob attachment. Door-	O. Stoddard	280,877	July 10	667	188	24	125
Knob. Casket-	J. C. Brooks	270,177	Jan. 2	410	120	23	83
Knob. Door-	C. Elvcena	280,728	July 3	469	134	24	84
Knob. Door-	R. D. Huntley	273,685	Mar. 6	574	152	23	932
Knob. Door-	G. Newberg	270,828	Jan. 16	1237	357	23	257
Knob. Door-	C. Rebstock	273,893	Mar. 13	843	229	23	966
Knob for stove or other doors	J. H. Bennett	274,433	Mar. 20	1527	420	23	1113
Knob-lock	L. Terry	288,512	Nov. 13	917	250	25	675
Knob-spindle fastening	C. L. Taylor	275,287	Apr. 3	514	141	23	1314
Knockdown table	F. H. De Tray and R. W. Vermilya	270,579	Jan. 16	927	268	23	199
Knockdown table	F. T. Knauss	273,109	Feb. 27	1934	542	23	799
Knockdown table	G. D. Post	272,471	Feb. 20	1113	314	23	649
Knockdown table	A. P. Shearman	288,126	Nov. 6	414	117	25	580
Knot-tying apparatus	R. C. Fay	280,921	July 10	718	202	24	133
Knuckle-joint. Universal angular	E. Mignault	289,120	Nov. 27	1664	462	25	821
Knurling-tool	W. W. Tucker	290,612	Dec. 18	1573	432	25	1178
Label. Bottle-	W. B. Dean	289,813	Dec. 11	551	154	25	989
Label-cutter	M. Bradley	272,202	Feb. 13	765	211, 212	23	584
Label. Elastic	J. Nuhn and F. Kuehne	281,391	July 17	1314	363	24	245
Lace-fastener	H. H. Porter	275,942	Apr. 17	1393	384	23	1481
Lace fastening. Shoe-	E. C. C. Henderson and T. A. McDonald.	280,173	June 26	1910	537	23	2473
Lacing-hook	M. N. Bray	273,707	Mar. 13	601	161	23	944
Lacing-hook for gloves	W. F. Foster	275,628	Apr. 10	998	270	23	1404
Lacing-hook for gloves	W. F. Foster	276,573	May 1	38	11	23	1634
Lacing-hooks. Machine for making	S. N. Smith	272,787	Feb. 20	1514	426, 427	23	720
Lacing-stud	M. N. Bray	273,706	Mar. 13	600	161	23	944
Lacing-stud	F. M. Piper	290,800	Dec. 25	1824	503	25	1229
Lacing-stud for gloves, &c	L. H. Mansbach	285,050	Sept. 18	1104	308	24	1107
Lacing-studs. Machine for setting	W. C Bray	277,965	May 22	1797	490, 491	23	1954
Lactates and lactic acid. Manufacture of	G. A. Marsh	290,252	Dec. 18	1086	.....	25	1095
Lactates for the production of lactic acid. Manufacture of	G. A. Marsh	290,253	Dec. 18	1088	.....	25	1095
Lactic acid and lactates. Manufacture of	C. O. Thompson	290,284	Dec. 18	1132	.....	25	1102

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr's.	Vol.	Page.
Ladder	C. Bridges	270,008	Jan. 2	216	62	23	44
Ladder	O. V. Flora	285,605	Sept. 25	1768	500	24	1232
Ladder	F. S. Seagrave	278,051	May 22	1876	513	23	1968
Ladder	C. B. Shaver and S. C. Schofield	272,163	Feb. 13	718	197	23	576
Ladder. Adjustable	N. Coons	281,977	July 24	2065	566	24	378
Ladder and fire-escape. Combined fireman's	J. Dempster and W. J. Horton	279,545	June 19	1179	325	23	2336
Ladder and hoist. Combined step-	E. D. Haven	282,983	Aug. 14	596	168, 169	24	613
Ladder and truck. Extension-	D. W. Hoover	280,475	July 3	177	47	24	33
Ladder attachment	L. Kinzel	274,448	Mar. 20	1555	426	23	1117
Ladder. Extension-	C. Frisell	281,681	July 24	1686	459	24	312
Ladder. Extension-	J. Spangler	281,805	July 24	1857	507	24	342
Ladder. Extension-	L. Swenson	284,683	Sept. 11	645	182	24	1019
Ladder. Extension step-	G. A. Bell and W. W. Norman	287,793	Nov. 6	7	2	25	508
Ladder. Extension step-	F. S. Seagrave	278,052	May 22	1877	513	23	1969
Ladder. Extension step-	G. W. Stambaugh	274,526	Mar. 27	1676	465	23	1144
Ladder. Fire-	A. and A. Iske	272,054	Feb. 13	586	158	23	553
Ladder. Flexible	P. Brendel	277,672	May 15	1426	385	23	1883
Ladder. Flexible	V. Cravens	279,542	June 19	1169	324	23	2336
Ladder. Folding	J. K. Landes	288,455	Nov. 13	848	229	25	663
Ladder. Folding step-	G. Beisner	276,339	Apr. 24	1896	526	23	1574
Ladder for gathering fruit. Portable	L. H. Titus	289,942	Dec. 11	706	199, 200	25	1017
Ladder. Fruit-	I. Stevens	284,920	Sept. 11	931	222	24	1070
Ladder. Fruit step-	D. Van Trump	285,369	Sept. 18	1479	416	24	1173
Ladder. Gangway-	C. Olsen	290,348	Dec. 18	1213	339	25	1117
Ladder-hook	J. F. Manahan	285,637	Sept. 25	1805	514	24	1240
Ladder. Portable	E. E. Swett	280,685	July 3	417	117	24	74
Ladder. Step-	G. M. Baker and W. Abbott	284,356	Sept. 4	242	67	24	945
Ladder. Step-	G. M. Baker and W. Abbott	285,049	Oct. 2	220	62	25	62
Ladder. Step-	J. J. Baldwin	283,555	Aug. 21	1308	366	24	749
Ladder. Step-	J. J. Baldwin	289,059	Nov. 27	1592	440	25	808
Ladder. Step-	H. J. Dennis	273,474	Mar. 6	304	82	23	885
Ladder. Step-	E. R. Flint	271,619	Feb. 6	44	11	23	448
Ladder. Step-	C. A. Jones	286,617	Oct. 16	1055	284	25	208
Ladder. Step-	M. C. McCollum	283,004	Aug. 14	633	179	24	619
Ladder. Step-	E. A. Shumway	283,524	Aug. 21	1275	357	24	742
Ladder. Step-	H. P. Spencer	288,883	Nov. 20	1372	378	25	762
Ladder. Step-	O. M. Sweet	273,188	Feb. 27	2094	569	23	817
Ladder. Step-	J. F. Treftz	274,855	Mar. 27	2056	573	23	1212
Ladder. Step-	J. N. Valley	279,893	June 19	1575	441	23	2407
Ladder. Step-	W. Varnum	273,782	Mar. 13	709	191	23	964
Ladder. Top-extension step-	M. G. Gartrell	272,540	Feb. 20	1203	336	23	665
Ladders. Hook for suspending	R. T. Greene	274,758	Mar. 27	1948	541	23	1193
Ladders. Raising and supporting	T. Witmer	271,289	Jan. 30	1609	524	23	366
Ladders. Trestle or platform attachment for	T. J. Nolton	271,509	Jan. 30	2096	602, 603	23	418
Ladle gear. Foundry-	R. Brown	289,499	Dec. 4	163	44	25	915
Ladle stopper-rods. Covering for	W. H. Haws	280,618	July 3	335	94	24	59
Lamp	H. C. Atkinson	284,796	Sept. 11	790	220	24	1043
Lamp	W. H. Briggs and W. Robinson	272,203	Feb. 13	767	212	23	584
Lamp	C. F. Chew	285,393	Sept. 25	1515	427	24	1185
Lamp	A. L. Dawson	289,510	Dec. 4	177	49	25	917
Lamp	W. L. Ewing	281,678	July 24	1682	458	24	311
Lamp	T. W. Graydon	270,420	Jan. 9	715	211	23	149
Lamp	J. T. Hill	270,312	Jan. 9	573	168	23	122
Lamp	J. Hinks	274,326	Mar. 20	1393	381, 382	23	1089
Lamp	J. Hinks	274,327	Mar. 20	1395	382	23	1089
Lamp	C. Hoffmann	288,006	Oct. 2	278	78	25	52
Lamp	A. Kaestner	288,340	Nov. 13	689	190	25	635
Lamp	J. Kirby, Jr	274,003	Mar. 13	975	267	23	1009
Lamp	J. Kirby, Jr	281,633	July 17	1618	442	24	295
Lamp	P. Levison	283,792	Aug. 28	1607	434	24	816
Lamp	D. D. Lockwood	275,230	Apr. 3	448	124	23	1303
Lamp	R. Marsh	272,567	Feb. 20	1247	348	23	673
Lamp	W. S. McLewee	290,340	Dec. 18	1203	337	25	1115
Lamp	F. W. Merryman	273,577	Mar. 6	439	118	23	909
Lamp	W. Newman	281,716	July 24	1733	470	24	330
Lamp	A. Ramage	280,240	June 26	1997	562	23	2488
Lamp	E. B. Requa	280,660	July 3	395	110	24	70
Lamp	H. E. Shaffer	285,310	Sept. 18	1405	397	24	1161
Lamp	F. Siemens	270,345	Jan. 9	618	182, 183	23	131
Lamp	F. A. Taber	278,373	May 29	2319	634	23	2053
Lamp	J. H. White	283,177	Aug. 14	830	234	24	655
Lamp	H. W. Wright	271,181	Jan. 23	1674	482	23	335
Lamp. Alcohol-	N. Clark	279,915	June 26	1008	452	23	2419
Lamp and gas fixture. Convertible	C. A. Holbrook	286,007	Oct. 2	280	79	25	53
Lamp and holder. Electric	E. Weston	277,646	May 15	1395	376	23	1877
Lamp and holder. Electric incandescent	C. G. Perkins	287,314	Oct. 23	1946	531	25	372
Lamp and holder therefor. Electric	E. Weston	277,645	May 15	1394	376	23	1877
Lamp and lantern	J. H. Ewing and E. L. Bill	275,474	Apr. 10	805	217	23	1371
Lamp and lantern	C. F. Fellows	283,989	Aug. 28	1839	519	24	858
Lamp and reflector for street-cars. Side and center	E. Boesch	283,693	Aug. 21	1472	415	24	780
Lamp and switch. Electric	C. G. Perkins	290,469	Dec. 18	1383	392	25	1146
Lamp and switch. Incandescent electric	C. G. Perkins	287,313	Oct. 23	1943	531	25	371
Lamp-black. Process of and apparatus for manufacturing	M. J. Seymour	278,749	June 5	91	26, 27	23	2139
Lamp-bracket	R. L. Stokes	275,434	Apr. 10	751	200	23	1362
Lamp bracket. Electric-incandescent	E. Weston	277,641	May 15	1389	375	23	1876
Lamp bracket. Electric-incandescent	E. Weston	277,642	May 15	1391	375	23	1877
Lamp bracket. Incandescent	E. Weston. (Reissue)	10,299	Mar. 27	2113	588	23	1230
Lamp bracket or fixture. Incandescent	E. Weston	278,642	May 29	2646	724	23	2110

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Lamp-burner	L. J. Atwood	270,722	Jan. 16	1112	318	23	239
Lamp-burner	W. P. Casperson	282,958	Aug. 14	573	162	24	609
Lamp-burner	W. W. Eastman	281,674	July 24	1678	457	24	311
Lamp-burner	J. B. Greenhalgh	275,901	Apr. 17	1348	371	23	1473
Lamp-burner	E. J. Hale	285,028	Sept. 18	1082	302	24	1103
Lamp-burner	E. J. Hale	285,029	Sept. 18	1083	303	24	1103
Lamp-burner	E. J. Hale	288,239	Nov. 13	546	151	25	612
Lamp-burner	T. Hipwell	283,108	Aug. 14	759	214	24	642
Lamp-burner	F. Ream	273,392	Mar. 6	200	54	23	868
Lamp-burner	C. Schwintzer and W. Gräff	289,571	Dec. 4	251	70, 71	25	931
Lamp-burner and chimney-holder	J. B. Deeds	273,039	Feb. 27	1646	517	23	785
Lamp-burner. Argand	P. J. Foulon	283,879	Aug. 28	1704	480	24	832
Lamp burner. Vapor	J. C. Ludwig and W. Wainwright	290,337	Dec. 18	1199	336	25	1114
Lamp-burners. Extinguisher for	T. Burns	270,631	Jan. 16	995	287	23	211
Lamp-burners. Extinguishing device for	W. Goldie	277,477	May 15	1194	321	23	1844
Lamp-burners. Wick-tube for	L. Tobey	278,295	May 22	2192	603	23	2022
Lamp, candlestick, &c	W. S. Tisdale	275,293	Apr. 3	523	143	23	1215
Lamp. Car	L. W. Schaefer	285,364	Sept. 18	1474	414	24	1172
Lamp carbon. Incandescent-electric	A. Bernstein	280,341	July 3	4	1, 2	24	3
Lamp carbons. Manufacturing incandescent	H. S. Maxim	277,846	May 15	1627	443	23	1919
Lamp. Carriage	F. C. Cannon	270,385	Jan. 9	671	197	23	141
Lamp. Carriage	C. F. Waldron	290,101	June 26	1836	517	23	2459
Lamp-chimney	J. C. Gunn	274,469	Mar. 27	1698	451	23	1136
Lamp-chimney cap	E. U. Wiesendanger	286,753	Oct. 16	1226	331	25	237
Lamp-chimney cleaner	A. Sahlstrom	282,782	Aug. 7	369	104	24	565
Lamp-chimney. Glass	W. Pountney	289,932	Dec. 11	696	195	25	1015
Lamp-chimneys. Manufacture of	J. Willetts and W. Buttlear	285,719	Sept. 25	1908	541	24	1257
Lamp coupling-ring	J. Kirby, Jr	271,866	Feb. 6	340	94	23	500
Lamp cut-out. Arc	C. B. Bosworth and F. A. Swan	278,679	June 5	5	2	23	2125
Lamp cut-out. Electric	J. H. Elfering	274,397	Mar. 20	1355	373	23	1082
Lamp. Electric	F. Bain	283,186	Aug. 14	852	238	24	658
Lamp. Electric	C. M. Ball	281,229	July 17	1110	306	24	210
Lamp. Electric	T. A. Edison	274,293	Mar. 20	1350	.....	23	1081
Lamp. Electric	C. D. Haskins	283,482	Aug. 21	1227	345, 346	24	734
Lamp. Electric	C. A. Hussey	269,937	Jan. 2	136	40	23	28
Lamp. Electric	W. F. Jobbins	270,806	Jan. 16	1211	349	23	252
Lamp. Electric	E. R. Knowles	288,346	Nov. 13	697	198	25	636
Lamp. Electric	H. S. Maxim	283,629	Aug. 21	1393	390	24	765
Lamp. Electric	E. Thomson	283,168	Aug. 14	825	231	24	653
Lamp. Electric	E. Thomson	283,437	Aug. 21	1175	330	24	724
Lamp. Electric	P. Tihon	278,832	June 5	211	63	23	2159
Lamp. Electric	J. Unger and S. O. Eisele	290,150	Dec. 11	958	271	25	1064
Lamp. Electric	C. J. Van Depoele	286,093	Oct. 2	384	106	25	70
Lamp. Electric	E. Weston	285,451	Sept. 25	1592	445	24	1197
Lamp. Electric	J. J. Wood	279,472	June 12	1076	298, 299	23	2314
Lamp. Electric	J. J. Wood	279,512	June 12	1128	312, 313	23	2322
Lamp. Electric-arc	G. D. Allen	273,336	Mar. 6	194	35	23	855
Lamp. Electric-arc	J. B. Allen	275,345	Apr. 10	692	167	23	1341
Lamp. Electric-arc	P. R. Allen	270,361	Jan. 9	636	187, 188	23	134
Lamp. Electric-arc	E. H. Amet	271,395	Jan. 30	1945	562, 563	23	391
Lamp. Electric-arc	H. Ansot	279,517	June 19	1139	315	23	2331
Lamp. Electric-arc	F. Bain	280,709	July 3	444	127	24	79
Lamp. Electric-arc	G. W. Beardslee	270,795	Jan. 16	1115	319, 320	23	233
Lamp. Electric-arc	R. Bucker	285,107	Sept. 18	1172	328	24	1119
Lamp. Electric-arc	L. Daft	270,565	May 1	28	7	23	1632
Lamp. Electric-arc	L. Daft	276,566	May 1	29	8	23	1632
Lamp. Electric-arc	L. Daft	276,567	May 1	30	8	23	1632
Lamp. Electric-arc	J. A. Dalzell	274,916	Apr. 3	35	9	23	1232
Lamp. Electric-arc	J. Du Shane	274,744	Mar. 27	19-26	536	23	1190
Lamp. Electric-arc	W. L. Dudley and C. F. Rapp	271,816	Feb. 6	260	77	23	490
Lamp. Electric-arc	N. H. Edgerton	279,363	June 12	948	203, 204	23	2293
Lamp. Electric-arc	E. A. Edwards	275,168	Apr. 3	369	102	23	1290
Lamp. Electric-arc	E. A. Edwards	275,170	Apr. 3	371	102, 103	23	1291
Lamp. Electric-arc	E. A. Edwards	275,171	Apr. 3	373	103	23	1291
Lamp. Electric-arc	E. A. Edwards	275,172	Apr. 3	374	103, 104	23	1291
Lamp. Electric-arc	E. A. Edwards	275,173	Apr. 3	376	104	23	1291
Lamp. Electric-arc	E. A. Edwards	275,174	Apr. 3	377	105	23	1292
Lamp. Electric-arc	J. R. Finney	271,576	Jan. 30	2173	626	23	431
Lamp. Electric-arc	J. R. Finney	275,182	Apr. 3	389	107	23	1293
Lamp. Electric-arc	J. R. Finney	275,183	Apr. 3	390	107	23	1294
Lamp. Electric-arc	W. P. Freeman	289,823	Dec. 11	562	157, 158	25	991
Lamp. Electric-arc	F. S. Giel	279,934	June 26	1636	459	23	2424
Lamp. Electric-arc	J. H. Guest	279,152	June 12	689	188, 189	23	2251
Lamp. Electric-arc	D. J. Hauss, T. E. McNamara, and J. S. Zerbe.	286,925	Oct. 16	1440	396	25	274
Lamp. Electric-arc	W. Hochhausen	271,456	Jan. 30	2024	584, 585	23	406
Lamp. Electric-arc	W. Hochhausen	271,458	Jan. 30	2030	585	23	407
Lamp. Electric-arc	C. A. Hussey	269,938	Jan. 2	137	41	23	28
Lamp. Electric-arc	C. A. Hussey	269,939	Jan. 2	139	41	23	29
Lamp. Electric-arc	C. A. Hussey	270,676	Jan. 16	1053	301	23	221
Lamp. Electric-arc	C. P. Jürgensen	270,954	Jan. 23	1400	404	23	290

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Lamp. Electric-arc	N. S. Keith	272,262	Feb. 13	840	234, 235	23	598
Lamp. Electric-arc	N. S. Keith	281,698	July 24	1710	465	24	316
Lamp. Electric-arc	E. R. Knowles	282,461	July 31	2698	741	24	490
Lamp. Electric-arc	J. Lea	281,891	July 24	1965	537, 538	24	361
Lamp. Electric-arc	S. Martin and J. F. Richards	270,449	Jan. 9	756	222	23	156
Lamp. Electric-arc	J. T. McConnell	288,826	Nov. 20	1303	357	25	749
Lamp. Electric-arc	T. J. McTighe and J. T. McConnell	288,831	Nov. 20	1310	359	25	750
Lamp. Electric-arc	R. R. Moffatt	286,144	Oct. 2	445	121	25	83
Lamp. Electric-arc	J. Olmsted	279,103	June 5	612	166, 167, 168	23	2227
Lamp. Electric-arc	C. G. Perkins	274,370	Mar. 20	1450	397	23	1099
Lamp. Electric-arc	L. Piette and F. Krizik	273,888	Mar. 13	838	227, 228	23	965
Lamp. Electric-arc	F. Rabl	280,763	July 3	524	147	24	93
Lamp. Electric-arc	C. Richter	283,662	Aug. 21	1428	400	24	772
Lamp. Electric-arc	A. Shedlock	277,166	May 8	831	219	23	1774
Lamp. Electric-arc	A. Shedlock	277,167	May 8	834	220	23	1774
Lamp. Electric-arc	R. J. Sheehy	279,824	June 19	1489	417	23	2392
Lamp. Electric-arc	R. J. Sheehy	284,497	Sept. 4	411	117	24	973
Lamp. Electric-arc	W. M. Thomas	278,293	May 22	2187	602	23	2021
Lamp. Electric-arc	W. M. Thomas	283,042	Aug. 14	677	190, 191	24	627
Lamp. Electric-arc	E. Thomson	272,920	Feb. 27	1706	477	23	760
Lamp. Electric-arc	E. Thomson	274,413	Mar. 20	1499	413, 414	23	1108
Lamp. Electric-arc	J. B. Tibbits	285,445	Sept. 25	1577	443	24	1196
Lamp. Electric-arc	J. B. Tibbits	287,067	Oct. 23	1631	449	25	315
Lamp. Electric-arc	S. F. Van Choate	274,997	Apr. 3	143	40	23	1250
Lamp. Electric-arc	C. J. Van Depoele	286,094	Oct. 2	387	106, 107	25	71
Lamp. Electric-arc	F. G. Waterhouse	274,999	Apr. 3	145	41	23	1251
Lamp. Electric-arc	E. Weston	271,173	Jan. 28	1663	478, 479	23	333
Lamp. Electric-arc	E. Weston	272,367	Feb. 13	967	270	23	620
Lamp. Electric-arc	E. Weston	285,715	Sept. 25	1903	540	24	1257
Lamp. Electric incandescent	P. Diehl	272,125	Feb. 13	678	185	23	569
Lamp. Electric incandescent	C. G. Perkins	257,319	Oct. 23	1951	533	25	373
Lamp. Electrical stand	J. H. Vail	286,350	Oct. 9	724	194	25	141
Lamp. Extension	G. and J. E. Bohner	285,381	Sept. 25	1499	422	24	1183
Lamp. Extension library	D. W. Parker and L. F. Griswold	285,063	Sept. 18	1119	313	24	1110
Lamp-extinguisher	A. Koegel	287,669	Oct. 30	2434	655	25	473
Lamp-extinguisher	M. J. Schuch	272,335	Feb. 13	928	258	23	613
Lamp-extinguisher and wick-trimmer. Automatic	T. J. L. Smiley and C. H. Stombs	290,607	Dec. 18	1568	431	25	1177
Lamp-extinguisher and wick-trimmer combined	A. Bechtel, E. J. Wunderlich, and D. P. Stetzelberger.	281,232	July 17	1117	308	24	211
Lamp-filler	W. Scott	275,419	Apr. 10	727	193	23	1359
Lamp filler and indicator	A. Ring	279,278	June 12	824	228	23	2274
Lamp filler, lighter, extinguisher, and torch. Combined	A. P. W. Skinner	282,578	Aug. 7	125	37	24	522
Lamp-filling can	W. F. Veber	289,585	Dec. 4	968	75	25	934
Lamp-fixture	D. W. Bennett	280,441	July 3	131	35	24	24
Lamp-fixture	C. Gordon	275,641	Apr. 10	1018	275	23	1408
Lamp-fixture	W. A. Hull and F. S. Truesdell	283,891	Aug. 28	1719	485	24	835
Lamp-fixture	R. B. Perkins	284,889	Sept. 11	891	251	24	1063
Lamp fixture. Electric	E. Weston	277,643	May 15	1391	375	23	1877
Lamp-fixture. Extension	A. H. Jones	271,334	Jan. 30	1866	541	23	376
Lamp-fixture. Extension	D. W. Parker and L. F. Griswold	282,028	July 24	2125	582	24	387
Lamp-fixture. Extension	R. B. Perkins	288,852	Nov. 20	1330	367	25	755
Lamp fixture or bracket. Electric	C. W. Holtzer	282,521	Aug. 7	55	16	24	509
Lamp. Flameless	M. G. Collins	277,682	May 15	1437	387	23	1884
Lamp. Foot and scenic	C. C. Charles	282,497	Aug. 7	21	6	24	504
Lamp for railway-cars, &c	J. L. and C. P. Howard	271,462	Jan. 30	2040	587	23	408
Lamp-fount	W. G. Leonard	281,531	July 17	1490	409	24	275
Lamp. Fountain	W. Detto	290,001	Dec. 11	784	221	25	1031
Lamp. Gas	J. Schülke	275,528	Apr. 10	869	235	23	1382
Lamp. Gas	F. H. Wenham	281,590	July 17	1560	427	24	285
Lamp. Gas-generating	L. C. Beebe	290,200	Dec. 18	1025	288	25	1084
Lamp globe. Electric	G. D. Burton	282,157	July 31	2308	633	24	423
Lamp globe. Electric	G. J. Murdock	274,959	Apr. 3	100	28	23	1342
Lamp guard. Signal	S. W. Corwin	275,469	Apr. 10	800	216	23	1371
Lamp. Hanging	C. A. Evarts	284,955	Sept. 11	975	274	24	1078
Lamp. Hanging	A. F. Glaessner	272,235	Feb. 13	807	224	23	592
Lamp. Hanging	W. S. McLewee	290,341	Dec. 18	1204	377	25	1115
Lamp holder and bracket	W. Kirk	273,857	Mar. 13	805	218	23	980
Lamp holder. Electric	A. Shedlock	277,168	May 8	836	220	23	1775
Lamp holder. Incandescent	E. Weston	274,427	Mar. 20	1519	418	23	1111
Lamp hood. Electric	S. H. Tacy	277,377	May 8	1068	288	23	1816
Lamp. Hydrogen	M. J. Hinden	275,045	Apr. 3	214	58	23	1263
Lamp. Incandescent	C. Richter	279,811	June 19	1472	413	23	2389
Lamp. Incandescent electric	I. Adams, Jr	282,030	July 31	2130	585	24	395
Lamp. Incandescent electric	A. Bernstein	271,302	Jan. 30	1821	508	23	369
Lamp. Incandescent electric	A. Bernstein	273,704	Mar. 13	597	161	23	944
Lamp. Incandescent electric	A. Bernstein	280,340	July 3	3	1	24	3
Lamp. Incandescent electric	P. R. D. D'Humy	282,861	Aug. 7	463	131	24	582
Lamp. Incandescent electric	P. Diehl	276,571	May 1	37	10	23	1633
Lamp. Incandescent electric	T. A. Edison	274,295	Mar. 20	1352	371	23	1081
Lamp. Incandescent electric	D. G. Fitz-Gerald	286,916	Oct. 16	1432	393	25	373
Lamp. Incandescent electric	T. E. Gatehouse	284,409	Sept. 4	306	85	24	955
Lamp. Incandescent electric	E. R. Knowles	282,460	July 31	2697	741	24	490
Lamp. Incandescent electric	E. R. Knowles and F. E. Idell	282,534	Aug. 7	71	21	24	512

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lamp. Incandescent electric	H. Lea	273,554	Mar. 6	403	108	23	903
Lamp. Incandescent electric	C. G. Perkins	274,654	Mar. 27	1827	507	23	1172
Lamp. Incandescent electric	C. G. Perkins	290,467	Dec. 18	1380	381	25	1145
Lamp. Incandescent electric	R. J. Sheehy	289,456	Dec. 4	97	28	25	904
Lamp. Incandescent electric	R. H. S. Thompson	280,367	June 26	2121	595	23	2309
Lamp. Incandescent electric	E. Weston	271,171	Jan. 23	1660	478	23	333
Lamp. Incandescing electric	T. A. Edison	273,485	Mar. 6	314	85	23	887
Lamp. Incandescing electric	T. A. Edison	273,486	Mar. 6	314	85	23	887
Lamp. Incandescing electric	T. A. Edison	274,294	Mar. 20	1350	371	23	1081
Lamp. Incandescing electric	T. A. Edison	275,613	Apr. 10	974	264	23	1401
Lamp. Incandescing electric	T. A. Edison	287,519	Oct. 30	2197	597	25	427
Lamp. Incandescing electric	J. S. Kelso, Jr	273,366	Mar. 6	170	46	23	863
Lamp. Incandescing electric	S. D. Mott	283,270	Aug. 14	960	267	24	678
Lamp lid. Miner's	J. B. Deeds and W. Mack	281,846	July 24	1910	521	24	351
Lamp-lighting device	A. H. Schlueter	270,849	Jan. 16	1261	363	23	261
Lamp-lighting device. Electric	H. Van Hoevenbergh	284,516	Sept. 4	438	124	24	978
Lamp. Magazine electric	A. T. Gifford	271,059	Jan. 23	1520	438 / 439	23	310
Lamp. Miner's	R. W. Grimes and J. Fern	280,738	July 3	483	137	24	86
Lamp. Miner's	C. A. Lee	284,865	Sept. 11	867	243	24	1058
Lamp. Miner's	E. K. Rollins	279,503	June 12	1115	308	23	2320
Lamp. Miner's safety	J. L. Williams	290,510	Dec. 18	1443	398	25	1156
Lamp. Night	T. Bergmann	281,825	July 24	1881	514	24	347
Lamp. Non-explosive	L. Baer, T. F. Miner, and T. Taylor.	284,353	Sept. 4	238	66	24	944
Lamp. Oil	S. Maxim	275,682	Apr. 10	1065	290	23	1416
Lamp. Oil	S. Maxim	284,876	Sept. 11	880	247	24	1061
Lamp or torch	J. B. Deeds	274,731	Mar. 27	1910	533	23	1187
Lamp. Plummet	J. Roach	287,580	Oct. 30	2293	620	25	446
Lamp regulator. Electric-arc	A. I. Gravier	278,304	May 22	2214	607	23	2026
Lamp. Reservoir	O. Sweeney	277,808	May 15	1581	432	23	1911
Lamp. Self-extinguishing	W. H. Kimball	289,843	Dec. 11	594	165	25	998
Lamp-shade clamp	L. F. Griswold and R. A. Wooding	276,030	Apr. 17	1498	412	23	1409
Lamp-shade holder	W. Somerville	286,237	Oct. 9	555	152	25	112
Lamp-shades with silver. Apparatus for coating	J. Dable	287,636	Oct. 30	2366	638	25	459
Lamp. Signal	E. S. Piper	276,278	Apr. 24	1802	502	23	1559
Lamp. Soldering	C. W. Hoehn	276,404	Apr. 24	1974	546	23	1588
Lamp. Street	H. S. Belden	286,763	Oct. 16	1237	334	25	939
Lamp. Street	C. C. Kiefer	275,219	Apr. 3	433	119	23	1300
Lamp. Student's	A. Angell	270,719	Jan. 16	1109	317	23	232
Lamp-support	D. W. Parker	278,729	June 5	69	21	23	2136
Lamp support. Electric	A. L. Ide	278,797	June 5	164	48	23	2150
Lamp-support. Tubular	J. Krummenauer	272,842	Feb. 20	1602	448	23	736
Lamp-supporting device	A. French	290,026	Dec. 11	814	229	25	1037
Lamp switch. Electric	G. T. Benson	288,971	Nov. 27	1482	411	25	790
Lamp switch. Electric	H. Edmunds, Jr	290,406	Dec. 18	1285	361	25	1130
Lamp switch. Incandescent-electric	C. G. Perkins	274,653	Mar. 27	1825	507	23	1172
Lamp-top	J. W. Cooper	284,616	Sept. 11	560	158	24	1005
Lamp. Tubular	J. Krummenauer	272,841	Feb. 20	1601	448	23	735
Lamp. Voltaic-arc	O. A. Moses	276,703	May 1	215	55, 56	23	1661
Lamp. Voltaic-arc	O. A. Moses	276,704	May 1	217	56	23	1661
Lamp. Voltaic-arc	O. A. Moses	276,705	May 1	218	56	23	1662
Lamp. Voltaic-arc	O. A. Moses	286,953	Oct. 16	1479	406	25	281
Lamp-wick raiser	J. B. Deeds	282,262	July 31	2459	677	24	450
Lamps and lanterns. Lens for signal	J. Rogers	282,376	July 31	2585	710	24	471
Lamps. Automatic cut-out for electric	W. Hochhausen	271,457	Jan. 30	2028	585	23	406
Lamps. Automatic regulator for incandescent	E. T. and E. E. Starr	281,412	July 17	1340	370	24	249
Lamps. Carbon electrode for electric	J. E. Atwood	272,017	Feb. 13	541	146	23	546
Lamps. Carbon for arc	F. Bain	284,939	Sept. 11	956	268	24	1074
Lamps. Carbon-holder for incandescent	C. G. Perkins	287,323	Oct. 23	1955	534	25	374
Lamps. Clock-work for mechanical	T. Silver	287,334	Oct. 23	1968	537	25	376
Lamps. Combined support and switch for electric	H. W. Spang	284,505	Sept. 4	425	121	24	976
Lamps. Contact for electric	H. Edmunds, Jr	288,217	Nov. 13	526	146	25	608
Lamps. Contact for electric	H. Edmunds, Jr	288,218	Nov. 13	526	146	25	609
Lamps. Device for lighting petroleum or gas	P. Richter	282,227	July 31	2398	660	24	439
Lamps. Device for suspending	C. C. Johnson	271,579	Jan. 30	2177	627	23	431
Lamps. Electrode for electric-arc	C. J. Van Depoele	287,344	Oct. 23	1979	540	25	379
Lamps. Focus-regulator for electric-arc	W. Wheeler	280,426	July 3	108	29	24	21
Lamps. Glass bulb or globe for incandescent electric	A. Swan	276,924	May 1	500	.....	23	1713
Lamps. Globe for incandescent electric	G. P. Bartlett	285,784	Oct. 2	6	2	25	4
Lamps. Incandescing conductor for electric	T. A. Edison	287,520	Oct. 30	2198	597	25	427
Lamps. Light-extinguisher for	J. Pohlsen	280,511	July 3	215	56	24	39
Lamps. Lighting buildings by hydrocarbon	J. R. Burchfield	271,412	Jan. 30	1968	569	23	395
Lamps. Machine for attaching metal collars to	A. L. Dawson	289,509	Dec. 4	174	48, 49	25	916
Lamps. Manufacture of incandescent	A. Swan	282,472	July 31	2708	745	24	492
Lamps. Manufacture of incandescent electric	J. H. Guest	282,884	Aug. 7	489	127 / 138	24	587
Lamps. Manufacture of incandescing	T. A. Edison	275,612	Apr. 10	973	.....	23	1401
Lamps. Manufacture of incandescing	W. Holzer	289,837	Dec. 11	584	162	25	995
Lamps. Manufacture of incandescing electric	T. A. Edison	271,613	Feb. 6	36	9	23	447
Lamps. Manufacture of incandescing electric	T. A. Edison	278,415	May 29	2368	647	23	2062
Lamps. Manufacture of incandescing electric	T. A. Edison	278,416	May 29	2369	647	23	2062
Lamps. Manufacture of incandescing electric	T. A. Edison	278,417	May 29	2370	647	23	2062
Lamps. Manufacture of incandescing electric	W. Holzer	289,838	Dec. 11	585	163	25	996
Lamps. Manufacture of peg	J. Dalzell	274,917	Apr. 3	37	10	23	1232
Lamps. Manufacturing incandescing electric	T. A. Edison	287,518	Oct. 30	2196	596	25	427
Lamps, &c. Molding bulbs for incandescent electric	A. Swan	275,730	Apr. 10	1121	307	23	1426
Lamps. Safety cut-out for electric	C. J. Van Depoele	288,682	Nov. 20	1128	310	25	718
Lamps. Safety device for electric-arc	E. Thomson	289,580	Dec. 4	202	73, 74	25	933
Land-roller	J. A. Johnson	288,061	Nov. 6	339	95	25	565
Land-roller	H. E. Scott	283,288	Aug. 14	978	273	24	682
Land-roller	A. J. Stevens	273,909	Mar. 13	863	234	23	990
Land-roller, clod-crusher, and harrow. Combined	A. Helman	289,958	Nov. 27	1893	504	25	851
Lanolin. Treating wool-oil to produce	O. Braun and O. Liebreich	271,192	Jan. 23	1687	.....	23	337

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Lantern	D. Curtin	270,397	Jan. 9	690	204	23	144
Lantern	F. Dietz	273,711	Mar. 13	604	162	23	945
Lantern	F. Dietz	273,712	Mar. 13	605	163	23	945
Lantern	F. Dietz	285,880	Oct. 2	129	37	25	25
Lantern	J. H. Ewing	278,990	June 5	381	103, 104	23	2188
Lantern	J. Fanning	282,291	July 31	2467	680	24	451
Lantern	G. F. Fisher	278,927	June 5	387	106	23	2189
Lantern	J. Gillig	273,272	Mar. 6	33	10	23	840
Lantern	C. T. Ham	278,540	May 29	2519	687	23	2089
Lantern	C. T. Ham	283,237	Aug. 14	914	255	24	670
Lantern	C. J. Higgins	287,932	Nov. 6	179	51	25	539
Lantern	R. L. Hull	289,348	Nov. 27	1936	538	25	873
Lantern	L. G. Huntington	276,182	Apr. 24	1687	466	23	1539
Lantern	T. Langston	279,403	June 12	1002	278	23	2302
Lantern	T. Langston	283,258	Aug. 14	945	264	24	676
Lantern	T. Langston	284,462	Sept. 4	344	95	24	962
Lantern	J. Moncur	275,509	Apr. 10	843	228	23	1378
Lantern	J. Moncur	285,147	Sept. 18	1236	344	24	1127
Lantern	S. B. Pangborn	285,506	Sept. 25	1646	463	24	1209
Lantern	A. J. Sawyer, C. Woodbury, and E. Lane.	281,797	July 24	1847	505	24	340
Lantern	A. Schindler	284,072	Aug. 28	1961	546	24	877
Lantern	F. E. Smothers	281,153	July 10	1001	280	24	184
Lantern	J. B. Stetson	286,087	Oct. 2	377	104	25	69
Lantern	N. Tufts	277,086	May 8	730	191	23	1757
Lantern. Bicycle	F. H. Talbot and F. Brown	281,580	July 17	1547	424	24	263
Lantern. Electric-light	W. G. Levison	289,425	Dec. 4	63	18, 19	25	898
Lantern for railway-cars, &c. Gas-	J. Pintsch	280,761	July 3	521	146	24	92
Lantern-lighting device	G. L. Sackett. (Reissue)	10,416	Dec. 4	592	144	25	977
Lantern. Magic	C. Fontayne	273,055	Feb. 27	1863	523	23	788
Lantern-pinions. Device for making	G. B. Webb	289,478	Dec. 4	128	36	25	909
Lantern. Railway signal-	J. H. Berry	270,727	Jan. 16	1117	320	23	233
Lantern. Ship-	N. Tufts	276,733	May 1	266	67	23	1670
Lantern. Signal-	L. G. Huntington. (Reissue)	10,408	Nov. 20	1472	406	25	781
Lantern. Signal-	C. E. Metzler and J. H. Burrell, Jr.	283,633	Aug. 21	1398	391	24	765
Lantern. Switch and signal	L. G. Huntington	280,624	July 3	345	96	24	61
Lantern. Tubular	E. Boesch	277,444	May 15	1156	310	23	1838
Lantern. Tubular	C. T. Ham	285,408	Sept. 25	1531	431, 432	24	1188
Lantern. Tubular	J. H. Stone	273,910	Mar. 13	864	234	23	990
Lanterns. Device for lighting and extinguishing	N. Bragdon	273,342	Mar. 6	133	37	23	856
Lanterns. Fastening for reflectors upon tubular	A. P. Cannon	274,170	Mar. 20	1192	328	23	1054
Lap-forming machine	J. T. Lemaire	276,606	May 1	78	21, 22	23	1641
Lard-cooler	O. G. Burnham	287,362	Oct. 23	2001	545	25	382
Lard-cooler	O. G. Burnham	289,809	Dec. 11	544	152	25	988
Lard cooling and mixing machine	F. Fiederlein	280,025	June 26	1750	491	23	2443
Lard. Manufacturing	W. J. Morrison	278,166	May 22	2018	555	23	1993
Lard-press and sausage-stuffer	J. G. Baker	275,567	Apr. 10	916	248	23	1391
Laryngoscope	C. E. De Bow	281,033	July 10	857	238	24	159
Lash-cutter	G. J. Mack	273,749	Mar. 13	655	175	23	954
Last	J. W. Denny	280,724	July 3	463	133	24	83
Last	J. W. D. Fifield	288,934	Nov. 20	1433	394	25	774
Last	C. W. Glidden	278,426	May 29	2382	650	23	2065
Last	W. Merritt	270,240	Jan. 9	492	145	23	106
Last	W. H. Snyder	283,826	Aug. 28	1643	463	24	882
Last	G. M. Wells	276,651	May 1	131	35	23	1649
Last	G. M. Wells	288,286	Nov. 13	616	169	25	623
Last-block fastener	R. Butterfield	270,013	Jan. 2	222	64	23	46
Last-block fastener	H. R. Silliman	281,147	July 10	996	278	24	183
Last. Changeable	J. Fieldhouse	283,587	Aug. 21	1350	377	24	756
Last-jack	G. M. Wells	281,742	July 24	1769	481	24	386
Last. Metal	J. Markie	272,143	Feb. 13	698	191	23	572
Last. Shoe-maker's	M. J. Dunn	273,482	Mar. 6	311	84	23	886
Lasts. Method of and apparatus for making anatomical	A. Stürmer	290,652	Dec. 18	1618	445	25	1186
Lasting and tacking machine	F. Huré	282,524	Aug. 7	60	18	24	510
Lasting-machine	E. F. Beal	277,664	May 15	1416	382, 383	23	1881
Lasting-machine	M. Brock	286,898	Oct. 16	1409	387	25	269
Lasting-machine	M. Brock	288,689	Nov. 20	1137	313	25	720
Lasting-machine	M. R. Ethridge	269,841	Jan. 2	27	8, 9	23	8
Lasting-machine	J. E. Matzeliger	274,207	Mar. 20	1230	338, 339, 340	23	1061
Lasting-tool	L. Schrepel	289,861	Dec. 11	613	171	25	1001
Lasting tool. Shank-	A. Jackson and W. B. Jefferis	273,283	Mar. 6	44	14	23	842
Latch	H. C. Doughty and D. Hall	281,036	July 10	860	239	24	159
Latch	C. Inward	288,639	Nov. 20	1071	294	25	709
Latch	E. M. and J. E. Mix	283,968	Aug. 14	957	266, 267	24	678
Latch	L. A. Randall	273,152	Feb. 27	1985	559	23	810
Latch	W. E. Sparks	279,837	June 19	1505	421	23	2385
Latch and hinge. Combined gate	J. Forney	273,501	Mar. 6	329	89	23	890
Latch. Door-	J. A. Baldwin	276,333	Apr. 24	1891	525	23	1573
Latch. Door-	S. W. Billingsley	276,342	Apr. 24	1899	527	23	1575
Latch. Door-	C. G. Burkhardt	277,879	May 22	1673	456	23	1933
Latch. Door-	S. L. Coales	280,581	July 3	295	81, 82	24	53
Latch. Door-	F. J. Lee	286,935	Oct. 16	1453	399	25	276
Latch. Door-	P. Mathes	276,255	Apr. 24	1775	494	23	1555
Latch. Door-	E. N. Porter	279,797	June 19	1456	407	23	2387
Latch. Door-	E. N. Porter	287,715	Oct. 30	2470	666	25	479
Latch. Door-	A. L. Scranton	284,336	Sept. 4	217	61	24	941
Latch. Door-	W. E. Sparks	273,403	Mar. 6	212	57	23	870

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Latch. Door	W. E. Sparks	275,533	Apr. 10	874	236	23	1383
Latch for sliding doors	E. M. Clough	275,149	Apr. 3	351	96	23	1287
Latch. Gate	T. Crane	290,176	Dec. 11	965	278	25	1069
Latch. Gate	A. Holeman	283,243	Aug. 14	924	257	24	671
Latch. Gate	F. Kroedel and W. Wesp	284,743	Sept. 11	723	202	24	1033
Latch. Gate	L. A. Saunders and J. S. Funkhouser	275,062	Apr. 3	268	73	23	1272
Latch. Gate	W. L. Stovall	277,807	May 15	1580	438	23	1911
Latch. Gate	W. L. Stovall	290,717	Dec. 25	1717	473	25	1211
Latch. Knob	J. Milton	281,109	July 10	946	265	24	174
Latch. Locking	F. Palmer	276,623	May 1	96	26	23	1644
Latch. Locking	G. H. Van Winkle	276,507	Apr. 24	2096	583	23	1610
Latch. Reversible	C. E. Billings	286,580	Oct. 16	1004	271	25	199
Latch. Reversible store-door	A. Arens	286,350	Oct. 9	578	159	25	116
Lathe	J. Birkenhead	272,849	Feb. 27	1618	452	23	746
Lathe	A. Marshall	281,539	July 17	1497	411	24	276
Lathe	F. B. Miles	280,211	June 26	1956	550, 551	23	2481
Lathe	F. M. Stevens and C. E. Moore	280,259	June 26	2018	567, 568	23	2492
Lathe-center rest	E. L. Conkey	285,115	Sept. 18	1184	333	24	1121
Lathe cutter and holder	J. W. Douglas	280,146	June 26	1884	530	23	2468
Lathe-cutters. Apparatus for grinding	C. V. Woerd	271,966	Feb. 6	460	126	23	521
Lathe-dog	W. E. Sidnell	282,577	Aug. 7	124	37	24	522
Lathe-driver	F. C. Beard	280,119	June 26	1854	522	23	2463
Lathe for turning irregular forms	O. Kromer and F. Rinkleff	278,025	May 22	1847	504	23	1963
Lathe for turning lasts	H. H. Bemis	276,129	Apr. 17	1622	447	23	1590
Lathe for turning ovals	M. Quinn	270,479	Jan. 9	790	231	23	164
Lathe planing attachment	M. G. Nixon	275,693	Apr. 10	1675	293, 294	23	1418
Lathe-rest	G. O. Griggs	271,702	Feb. 6	139	38	23	464
Lathe-slide-feeding device	A. W. Schleicher	274,394	Mar. 20	1480	406	23	1104
Lathe. Slide-knife	J. Chase	289,978	Dec. 11	752	212, 213	25	1096
Lathe-stand	E. A. Warren	270,166	Jan. 2	399	115	23	81
Lathe stop mechanism. Engine	W. H. Coxon	286,786	Oct. 16	1966	343	25	244
Lathe-tool holder	C. Müller	272,304	Feb. 13	884	248	23	606
Lathe tool-post	C. A. Lieb	272,277	Feb. 13	861	240	23	602
Lathe tool-rest	E. S. M. Fernald	286,690	Oct. 16	1151	309	25	224
Lathe. Turning	F. Hanson	286,811	Oct. 16	1295	351, 352	25	250
Lathe. Turning	G. D. Hayden	287,673	Oct. 30	2412	650	25	469
Lathe. Turning	E. R. Kugler	286,933	Oct. 16	1449	398	25	276
Lathe. Turning	E. H. Leland	275,051	Apr. 3	219	59, 60	23	1264
Lathe. Turning	F. H. Richards	285,931	Oct. 2	196	55	25	38
Lathe. Watch-maker's	H. M. Potter	288,854	Nov. 20	1338	367	25	755
Lathe. Watch-maker's	S. Sawyer	280,867	July 10	657	185	24	123
Lathe. Wood-turning	C. H. Cowdrey	273,227	Feb. 27	2078	584	23	896
Lathe. Wood-turning	F. Hanson	286,810	Oct. 16	1294	350, 351	25	249
Lathe. Wood-turning	H. and J. Kelly	287,688	Oct. 30	2431	654	25	472
Lathe. Wood-turning	A. I. Sanborn	271,368	Jan. 30	1917	554	23	385
Lathes, &c. Cutter and holder for	J. W. Douglas	280,147	June 26	1885	530	23	2469
Lathes, &c. Cutter and holder for	J. W. Douglas	280,148	June 26	1887	531	23	2469
Lathes. Counting attachment for gage	J. D. Lammel	274,950	Apr. 3	86	24	23	1240
Lathes for turning crank-pins. Attachment to	J. W. Wilbraham	272,820	Feb. 20	1557	437	23	728
Lathes. Manufacturing turning	E. T. Gordon	281,263	July 17	1159	320	24	218
Lathes. Work-rest for wood-turning	N. Geisen	288,994	Nov. 27	1509	417	25	795
Lathing and furring	W. H. Brown	271,309	Jan. 30	1898	531	23	370
Lathing device	S. Perry	270,539	Jan. 16	1251	360	23	259
Lathing device	S. Perry	277,058	May 8	688	179	23	1750
Lathing. Metal	A. R. Hancock	279,748	June 19	1406	392	23	2377
Lathing. Metallic	C. H. Waters	273,412	Mar. 6	223	60	23	872
Lathing. Support for wire-cloth	W. Orr, Jr	278,263	May 22	2151	591	23	2015
Latrine and water-closet	W. E. Parfitt	284,976	Sept. 11	998	281	24	1083
Laundry-iron	J. N. Pedder	277,605	May 15	1348	363	23	1868
Lawn edge-trimmer	P. Adie	274,100	Mar. 20	1098	303	23	1037
Lawn-rake	J. R. Benton	281,003	July 10	820	228	24	152
Lawn-sprinkler	H. Bonninghausen	273,940	Mar. 13	903	247	23	996
Lawn-sprinkler	R. M. Widney	287,984	Nov. 6	251	72	25	551
Lawn-tennis courts. Marker for	D. D. Williamson	285,093	Sept. 18	1155	322	24	1115
Lawn-tennis net. Metal	S. Cunningham	277,551	May 15	1287	346	23	1858
Lawn-tennis nets. Pole for	J. Dwight	282,506	Aug. 7	36	11	24	506
Lay-boy	G. A. Smith and M. W. Voigtman	281,150	July 10	999	279	24	183
Lead and crayon holder	G. B. Adams	270,197	Jan. 9	437	129	23	97
Lead and crayon holder	J. Hoffman	290,684	Dec. 25	1666	459	25	1200
Lead and crayon holder	P. Schrag	271,926	Feb. 6	418	114	23	514
Lead. Apparatus for drying white	J. C. Martin	286,721	Oct. 16	1187	320	25	231
Lead, &c. Apparatus for grinding white	J. C. Martin	286,720	Oct. 16	1186	320	25	231
Lead. Manufacture of white	J. C. Martin	290,444	Dec. 18	1348	.....	25	1139
Lead or crayon holder	G. B. Adams	272,931	Feb. 27	1719	480	23	762
Lead or crayon holder	C. W. Boman	275,125	Apr. 3	326	90	23	1282
Lead or crayon holder	M. Dittenhoefer	290,178	Dec. 11	967	279	25	1069
Lead or crayon holder	G. L. Jaeger	273,093	Feb. 27	1917	537	23	797
Lead or crayon holder	G. L. Jaeger	273,546	Mar. 6	394	106	23	901
Lead or crayon holder	F. J. Kaldenberg	282,530	Aug. 7	67	20	24	512
Lead or crayon holder	W. H. H. Knight	270,681	Jan. 16	1059	303	23	223
Lead or crayon holder	W. H. H. Knight	277,138	May 8	799	210	23	1769
Lead or crayon holder	W. H. H. Knight	277,139	May 8	800	210	23	1769
Lead or crayon holder	B. G. Platt	290,191	Dec. 11	1003	283	25	1072
Lead or crayon holder	R. W. Uhlig	276,543	Apr. 24	2144	596	23	1617
Lead or crayon holders. Point-protecting attachment to	P. Schrag	271,136	Jan. 23	1613	464	23	395
Lead pipe. Coiling	J. Farrell	278,695	June 5	25	7	23	2129
Lead pipe. Coiling	J. Farrell	278,696	June 5	26	8	23	2129

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Page.	Official Gazette. Vol.	Official Gazette. Page.
Lead. Process of and apparatus for the manufacture of white	E. French	281,347	July 31	273	24	161
Lead to impart to it the property of adhering to other metals. Treating	F. J. Clamer	281,177	Aug. 14	729	24	635
Leather and analogous textile. Patent	J. B. Eaton	280,361	Nov. 27	1945	25	841
Leather. Artificial	E. M. Feeney	285,423	Sept. 25	1010	24	1302
Leather-measuring machine	M. H. Merriam	270,366	Jan. 23	1457	23	388
Leather-working, dressing, and finishing apparatus	F. P. Barnesteiner	277,371	Feb. 6	407	23	332
Leather-work	F. W. Tolmer	280,325	Nov. 13	1749	25	621
Leather-cane	A. and H. Hoff	274,693	Mar. 27	1111	23	1161
Leather-creasing wheel	H. F. Osborne	280,362	Dec. 18	1945	25	1007
Leather-cutter	W. W. Berry	277,114	Feb. 27	1048	23	750
Leather-cutter	W. W. Berry	277,115	Feb. 27	1048	23	750
Leather-dress. Belt made from	C. Gruebler and J. H. Meyer	280,140	Dec. 11	1876	25	1061
Leather-dressing roller	J. W. Tatum	274,459	Mar. 27	1096	23	1234
Leather-fluting machine	J. E. Lawton	285,423	Sept. 4	49	25	11
Leather-gaging machine	C. Daniel	276,742	May 1	337	23	1069
Leather-gaging and marking machine	E. Eaner	277,377	May 22	1284	23	1952
Leather-horn for working pieces of. Process of and composition for the manufacture of substitutes for	J. D. McDonald	270,364	Jan. 23	1412	23	388
Leather. Machine for treating	E. Pratt	270,673	Jan. 9	1246	23	183
Leather. Manufacture of artificial	J. Patterson	282,764	Aug. 7	238	24	539
Leather. Preparing japanned and enameled	R. T. Parker and J. Baker	285,440	Dec. 11	676	25	1004
Leather-reducing machine	C. W. Rogers	282,824	Aug. 14	650	24	635
Leather-strap. Apparatus for treating	E. B. Bragg	284,401	Nov. 6	272	25	554
Leather. Seam for uniting pieces of	O. Kai	282,852	Aug. 14	936	24	674
Leather-shaving machine	C. H. Taylor	277,831	May 15	1279	23	1274
Leather-skiving machine	C. Amatera	273,311	Mar. 13	992	23	994
Leather-skiving machine	G. Bridow	285,456	Apr. 19	779	23	1367
Leather-skiving machine	W. W. Currier	281,979	July 24	2067	24	379
Leather-skiving machine	A. Knowlton	272,988	Feb. 27	1672	23	755
Leather-smutting machine	C. B. Bryant	272,025	Feb. 13	559	23	548
Leather-splitting and beveling knife	E. C. Smith	285,715	Sept. 12	1412	24	1163
Leather-splitting machine	E. Cummings	288,551	Nov. 13	958	25	682
Leather-splitting machine	J. A. Enos	277,413	May 8	1199	23	1423
Leather-splitting machine	J. D. McDonald and W. Beggs	279,659	June 19	1394	23	2380
Leather-strings. Machine for rolling	J. A. Smith	277,979	Nov. 6	282	25	547
Leather-washer	T. Gingras	281,760	July 24	1726	24	331
Leg and foot protector	H. A. Ducat	284,114	Mar. 20	1123	23	1041
Leg. Artificial	J. Furrer	277,562	May 15	1280	23	1360
Leg. Artificial	W. D. Lewis	279,566	May 29	2549	23	2004
Leg. Artificial	J. O'Brien	280,915	Dec. 25	1958	25	1253
Leggin	E. B. Stimpson	271,150	Jan. 23	1627	23	388
Leggin	S. L. Waldman	276,537	May 1	271	23	1671
Leggins and overgaiters. Fastening for	E. B. Stimpson	270,147	Jan. 2	379	110	23	77
Lemon-squeezer	A. C. Kelly and G. W. Wimmer	276,424	Apr. 24	1008	553	23	1502
Lemon-squeezer	L. Kyser and A. C. Rex	281,378	July 17	1296	359	24	262
Lemon-squeezer	J. J. Tower	271,002	Jan. 23	1456	420	23	220
Lemonade-mixer	P. H. Cherry	288,775	Nov. 20	1343	341	25	736
Lemonade-shaker	W. M. Reed	281,925	July 24	2002	549	24	388
Lenses. Device for focusing	J. B. Colt	288,025	Nov. 6	299	84	25	558
Letter-box	J. H. Carter	290,532	Dec. 18	1472	407	25	1161
Letter-box	J. W. Jeffers	284,657	Sept. 11	858	241	24	1056
Letter-box	M. R. Jones	271,861	Feb. 6	335	92	23	499
Letter-box	T. R. Lowerre	277,526	May 15	1325	356	23	1365
Letter-box connection	J. G. Cutler	284,951	Sept. 11	971	273	24	1077
Letter for signs. Enameled	J. Caesar	273,024	Feb. 27	1027	511	23	781
Letter sheet and envelope. Combined	T. Breen	272,852	Feb. 27	1021	453	23	746
Letter sheet and envelope. Combined	G. R. Lockwood	279,405	June 12	1005	278	23	2302
Letter-sheet and envelope. Combined	B. Loewenbach	287,555	Oct. 30	2244	609	25	437
Levee	J. Torras	283,684	Aug. 21	1462	411	24	778
Levees and embankments. Constructing	S. Howell	277,732	May 15	1491	404	23	1894
Level	J. T. Ketchledge and R. J. Pepper	277,842	May 15	1622	442	23	1918
Level	L. Van Alstyne	287,342	Oct. 23	1976	540	25	378
Level and plumb. Spirit	L. L. Davis	288,624	Nov. 20	1053	290	25	706
Level. Artificer's	J. W. Harmon	270,951	Jan. 23	1393	402	23	389
Level. Combination	J. H. Sands	279,443	June 12	1046	290	23	2309
Level. Drain-tile-ditch	L. F. Pontious	281,133	July 10	979	273	24	180
Level. Plumb	W. L. Eveland	274,089	Mar. 13	1080	298	23	1027
Level. Right-angled	B. B. Butt	283,564	Aug. 21	1395	370	24	751
Level. Spirit	N. H. Bearse	284,712	Sept. 11	684	193	24	1026
Level. Spirit	S. H. Lemon	281,086	July 10	918	256	24	169
Level. Spirit	T. W. Wood	280,706	July 3	441	126	24	78
Level. Spirit	G. B. Youngs	285,775	Sept. 25	1990	563	24	1369
Leveling-instrument	E. A. Bastrom	280,713	July 3	449	128	24	80
Leveling instrument	W. and L. E. Gurley	286,606	Oct. 16	1037	281	25	204
Leveling instrument	W. C. Holmes	284,424	Sept. 4	325	90	24	958
Leveling instrument	W. W. Le Grande	277,037	May 8	662	172	23	1745
Leveling instrument	J. A. McCurry	280,203	June 26	1946	547	23	2479
Leveling instrument. Artificer's	J. W. Harmon	281,267	July 17	1162	321	24	219
Leveling rod	W. Gurley	287,021	Oct. 23	1574	434	25	304
Leveling rod. Surveyor's	J. M. Tébar	284,513	Sept. 4	434	123	24	977
Leveling, surveying, &c. Combined instrument for	R. P. Gallis	272,231	Feb. 13	801	223	23	591
Lever-jack	J. O. Joyce	271,864	Feb. 6	338	93	23	500
Lewis	C. W. Ash	277,532	May 15	1261	338	23	1855
Library-table	G. N. Fletcher	283,386	Aug. 21	1112	314	24	713
Lid for pots, &c	P. B. Conneely	276,359	Apr. 24	1916	531	24	1578
Lid for pots, kettles, &c	W. D. Elwell	283,227	Aug. 14	898	251	24	667
Lid-lifter, tongs, and poker. Combined	H. Ackermann	277,531	May 15	1260	338	23	1855
Life-boat	M. Besosa	289,208	Nov. 27	1771	491	25	841

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Life-boat	P. Duval	281,622	July 17	1606	439	24	293
Life-boat	D. Dwyer	273,713	Mar. 13	605	163	23	945
Life-boat	T. Hamilton	278,542	May 29	2521	668	23	2069
Life-boat	F. Vaughan	273,197	Feb. 27	2036	573	23	819
Life-guard and track-clearer	R. B. Locke	287,036	Oct. 23	1592	438	25	307
Life-lines. Gun and its projectile for throwing	J. Evans and R. Low	281,041	July 10	866	241	24	160
Life-preserver	E. Bauer	281,824	July 24	1880	513	24	346
Life-preserver	E. R. Cogswell	270,745	Jan. 16	1142	327	23	238
Life-preserver	E. R. Cogswell	281,178	July 10	1039	288	24	191
Life-preserver	C. E. Gensch	282,627	Aug. 7	185	54	24	532
Life-preserver	J. N. Hoeflich	278,432	May 29	2391	652	23	2066
Life-preserver	G. P. Hunt	278,240	May 22	2117	583	23	2010
Life-preserver	S. A. L. Klixbüll	271,870	Feb. 6	344	95	23	501
Life-preserver	C. Leduc	282,651	Aug. 7	211	61	24	536
Life-preserver	D. A. Woodbury	276,121	Apr. 17	1613	444	23	1518
Life-preserver holder	W. P. Gray	277,269	May 8	943	253	23	1795
Life-preserving mattress	W. Miller	289,122	Nov. 27	1666	462	25	822
Life-raft	E. A. Hayes	281,689	July 24	1697	462	24	313
Life-saving apparatus for boats	D. W. Low	280,842	July 10	630	177	24	117
Life-saving apparatus for privy-vaults	J. Fleck	270,295	Jan. 9	556	163	23	118
Life-saving seat for vessels	R. E. Pinhey	284,229	Sept. 4	94	25, 26	24	920
Lift and hoist	J. S. Stevens, C. G. Major, and D. P. Edwards.	282,236	July 31	2410	662, 663	24	441
Lift. Safety-	M. Martin	271,884	Feb. 6	357	99	23	503
Lifter: *See* Coffin-lifter. Cooking-utensil lifter. Corpse-lifter. Dish or plate lifter. Invalid-lifter. Lid-lifter. Pan or stove-cover lifter. Rail-lifter. Sash-lifter. Stove-cover lifter. Stove-lid lifter. Transom-lifter.							
Lifting-jack	J. C. Burruss	270,012	Jan. 2	221	63	23	46
Lifting-jack	T. Carney	288,009	Nov. 6	283	80	25	555
Lifting-jack	H. C. Chandler	283,204	Aug. 14	876	244	24	663
Lifting-jack	L. J. Crecelius	270,394	Jan. 9	686	203	23	144
Lifting-jack	J. Dawson	278,317	May 29	2237	613	23	2039
Lifting-jack	M. Eaton	277,247	May 8	920	246	23	1790
Lifting-jack	W. M. Eichholtz	276,371	Apr. 24	1932	536	23	1581
Lifting-jack	E. J. Evans	270,649	Jan. 16	1021	293	23	215
Lifting-jack	J. H. Fiske	273,050	Feb. 27	1856	520	23	787
Lifting-jack	H. Garrett	273,507	Mar. 6	334	91	23	891
Lifting-jack	J. W. Hawkins	287,539	Oct. 30	2222	603	25	432
Lifting-jack	L. D. Jones	276,140	Apr. 17	1635	450	23	1522
Lifting-jack	J. O. Joyce	271,863	Feb. 6	337	93	23	500
Lifting-jack	J. O. Joyce	276,827	May 1	378	101	23	1692
Lifting-jack	J. S. Kirkwood	272,837	Feb. 20	1588	446	23	733
Lifting-jack	I. L. Landis	274,007	Mar. 13	979	268	23	1010
Lifting-jack	C. L. Martin	284,875	Sept. 11	879	247	24	1060
Lifting-jack	H. Miller	272,969	Feb. 27	1760	492	23	769
Lifting-jack	H. Miller	283,635	Aug. 21	1400	392	24	766
Lifting-jack	G. W. Null	284,975	Sept. 11	996	281	24	1082
Lifting-jack	W. L. Porter	284,482	Sept. 4	389	107	24	970
Lifting-jack	E Prescott	272,899	Feb. 27	1684	471	23	756
Lifting-jack	W. M. Riggin	276,471	Apr. 24	2056	571	23	1602
Lifting-jack	D. R. Roberts	286,488	Oct. 9	881	239	25	171
Lifting-jack	I. Rose	288,367	Nov. 13	734	199	25	643
Lifting-jack	J. Schwegler	278,280	May 22	2169	597	23	2018
Lifting-jack	J. Sewell, Jr	271,137	Jan. 23	1614	464	23	325
Lifting-jack	E. D. Sloat	279,608	June 19	1242	344	23	2349
Lifting-jack	T. Thom	287,066	Oct. 23	1629	448	25	314
Lifting-jack	J. Weathers	273,649	Mar. 6	524	140	23	923
Lifting-jack	H. Weis	271,959	Feb 6	452	124	23	520
Lifting-jack	P. Witt	280,000	June 26	1712	480	23	2437
Lifting-jack and spike and stump puller	W. V. Flynn	277,894	May 22	1690	461	23	1936
Lifting-jack crank-handle	J. M. Vance	287,198	Oct. 23	1798	493	25	345
Lifting-jack for raising railway-tracks	J. W. Snapp	276,088	Apr. 17	1569	432	23	1511
Lifting-jack. Wagon-bed	F. Funk	286,800	Oct. 16	1290	349	25	249
Lifting-machine	H. E. Townsend	271,545	Jan. 30	2138	615	23	425
Lifting mechanism	G. A. Shoudy	274,834	Mar. 27	2034	566	23	1208
Light: *See* Car signal-light. Electric light. Electric-arc light. Head-light. Oven-light. Sidewalk-light. Signal-light. Skylight. Voltaic light. Voltaic-arc light.							
Lights. Arch for street-	R. T. Stanard	288,132	Nov. 6	420	119	25	581
Lightning-arrester	J. W. Dyer	287,647	Oct. 30	2377	641	25	461
Lightning-arrester	J. W. Dyer	289,629	Dec. 4	316	88	25	943
Lightning-arrester	J. L. Finn	273,049	Feb. 27	1855	520	23	787
Lightning-arrester	C. S. Shepard	287,875	Nov. 6	104	31	25	525
Lightning-arrester for electric wires	W. R. Patterson	281,723	July 24	1749	474	24	322
Lightning-arrester for telegraph-circuits	J. W. Dyer	272,867	Feb. 27	1640	459	23	750
Lightning-conductor	W. Brown	271,029	Jan. 23	1485	428	23	304
Lightning-conductor	J. H. Coon	274,564	Mar. 27	1721	478	23	1152
Lightning-conductor	T. H. Dodge	289,076	Nov. 27	1614	446	25	812
Lightning-conductor	H. W. Spang	273,179	Feb. 27	2017	567	23	815
Lightning-conductor	H. W. Spang	284,082	Aug. 28	1973	550	24	879
Lightning-rod	J. H. Brandon	270,379	Jan. 9	666	195	23	140
Lightning-rod	T. H. Dodge	282,449	July 31	2686	737	24	489
Lightning-rod	A. C. Lobdell	278,028	May 22	1851	506	23	1964
Lightning-rod	T. H. Patee	282,562	Aug. 7	108	33	24	519
Lightning-rod coupling	W. Hewitt	287,929	Nov. 6	174	50	25	538
Lightning-rod joint	W. Hewitt	287,286	Oct. 23	1907	521	25	365

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Lightning-rods. Tripod-standard for	T. H. Patoe and T. D. Ridge	271,733	Feb. 6	176	47	23	470
Limb. Artificial	G. A. Ingram	288,239	Nov. 13	558	155	25	614
Lime. Apparatus for preparing sulphureted cream of	H. A. Hughes	290,642	Dec. 18	1609	442	25	1184
Lime-bin	J. W. Ormsby	270,464	Jan. 9	773	226	23	160
Lime from gas-works for cyanides. Treating spent	A. T. Schuessler	277,851	May 15	1633	.....	23	1920
Limekiln	P. McLoon	285,911	Oct. 2	168	48	25	33
Lime-wash for coating buildings, &c	J. H. Sharpless	276,293	Apr. 24	1822	.....	23	1562
Line-loop	J. Hudson	289,264	Nov. 27	1831	505	25	853
Lineameter	V. Von Reitzner	275,734	Apr. 10	1124	308	23	1496
Linearscope	A. Chappel	281,020	July 10	839	233	24	155
Liniment	F. Guilliouma	284,629	Sept. 11	575	.....	24	1008
Liniment	J. Quinlan	282,769	Aug. 7	357	.....	24	562
Link-bending machine	J. Baird	287,359	Oct. 23	1997	544	25	381
Link-bending machine	C. O. Sobinski	287,736	Oct. 30	2497	673 674	25	484
Link-bending machine	H. G. Tidemann	280,097	June 26	1831	515 516	23	2458
Link forming and cutting machine	H. A. Iddings	290,773	Dec. 25	1787	493 494	25	1223
Link-making machine	J. Phelan	283,919	Aug. 28	1748	493 494	24	840
Link-protector	A. V. Smith	279,831	June 19	1500	419	23	2304
Link-welding die	F. A. Iddings	271,466	Jan. 30	2046	569	23	409
Link-winding machine	A. T. Trimble	270,861	Jan. 16	1271	367	23	963
Links. Die for forming	H. A. Iddings	286,013	Oct. 2	288	81	25	54
Lint. Manufacture of surgical	W. T. Browne	282,264	July 31	2440	671	24	446
Liquid-cooler	H. S. Dimock	277,689	May 15	1445	390	23	1886
Liquid-meter	D. B. Spooner	287,587	Oct. 30	2300	622	25	447
Liquids. Apparatus for drawing	G. D. Burton	275,134	Apr. 3	336	93	23	1284
Liquids from barrels. Apparatus for drawing	J. Cox	288,978	Nov. 27	1493	413	25	792
Liquids from barrels. Apparatus for forcing	H. B. Park	286,631	Oct. 16	1073	288	25	211
Liquids. Increasing the flow and delivery of	J. L. Douglass	286,185	Oct. 9	499	138	25	103
Liquors. Apparatus for purifying alcoholic	G. Fleury	286,126	Oct. 2	424	116	25	78
Liquors. Apparatus for treating fermented, fermentable, and distilled	C. W. Ramsay	271,656	Feb. 6	84	23	23	455
Liquors to the action of atmospheric air. Apparatus for exposing	E. Luck	278,986	June 5	451	124	23	2200
Liquors with electricity. Treating alcoholic	A. C. Tichenor	280,882	July 10	671	189	24	125
Lister and drill. Combined	L. Kirlin	274,004	Mar. 13	976	268	23	1009
Lithographic process	A. Hoen	277,730	May 15	1487	403	23	1894
Load-binder	A. H. Johnston	289,109	Nov. 27	1650	458	25	819
Lock:							
See Alarm-lock.	Hasp-lock.						
Bag-lock.	Indicator-lock.						
Bag or satchel lock.	Knob-lock.						
Bed-rail-alat lock.	Mat-lock.						
Berth-lock.	Milk-can lock.						
Bicycle-lock.	Nut-lock.						
Bolt-lock.	Oar-lock.						
Book-lock.	Padlock.						
Bottle-lock.	Permutation-lock.						
Brake-lock.	Post-office-box lock.						
Cabinet-lock.	Railway-rail lock.						
Car-door lock.	Reclining-chair lock.						
Carriage-top lock.	Revolver-lock.						
Carriage-wheel lock.	Safe-lock.						
Combination-lock.	Sash-lock.						
Cylinder-lock.	Satchel-lock.						
Door-lock.	Seal-lock.						
Drawer-lock.	Seat-lock.						
Electric lock.	Stencil-plate lock.						
Elevator-gate lock.	Switch-lock.						
Fence-lock.	Time-lock.						
Fire-alarm-box lock.	Time and non-time lock.						
Fire-arm lock.	Track-bolt lock.						
Fire-arm safety-lock.	Trunk-lock.						
Galley type-lock.	Vehicle-seat lock.						
Gun-lock.	Wagon-lock.						
Lock	J. S. Aydelott	281,823	July 24	1878	513	24	346
Lock	W. C. and E. I. Blount	273,939	Mar. 13	901	246	23	996
Lock	J. Breyer	285,382	Sept. 25	1500	422	24	1183
Lock	F. S. Clarkson	281,615	July 17	1598	437	24	291
Lock	N. J. Coté	276,004	Apr. 17	1463	403	23	1494
Lock	F. A. Guthrie	283,776	Aug. 28	1586	448	24	813
Lock	F. P. Krings	289,542	Dec. 4	212	59, 60	25	923
Lock	C. S. Lewis and G. H. Blakesley	270,318	Jan. 9	579	170	23	123
Lock	C. A. Ludlow	283,125	Aug. 14	777	218	24	645
Lock	F. W. Mix	281,713	July 24	1729	469	24	319
Lock	L. Rhoades	271,571	Jan. 30	1781	517	23	362
Lock	J. Roche	280,517	July 3	219	58	24	39
Lock	S. P. Stoddard	271,662	Feb. 6	92	25	23	456
Lock	S. P. Stoddard	271,663	Feb. 6	93	25	23	456
Lock	E. P. Teeters	272,796	Feb. 20	1526	430	23	723
Lock	J. P. White	271,962	Feb. 6	454	124	23	521
Lock	O. H. and O. L. Woodward	279,112	June 5	632	172	23	2230
Lock and latch	H. H. Freeman	290,024	Dec. 11	812	228	25	1036
Lock and latch. Combined	T. Friedrick	279,932	June 26	1631	458	23	2423
Lock and latch. Combined	M. E. Hamilton	282,886	Aug. 7	492	138	24	587
Lock-bolts. Machine for putting springs in	G. B. Cowles	283,081	Aug. 14	723	202 203	24	636
Lock-case	E. Parker	281,294	July 17	1191	329	24	294
Lock-case	H. L. Spiegel. (Reissue)	10,361	July 31	2721	749	24	494
Lock for rocking-chairs, cribs, &c	J. H. McLean	278,162	May 29	2013	554	23	1999

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lock-gates. Apparatus for opening and closing	T. H. Pollock	287,575	Oct. 30	2275	617	25	442
Lock-nut	J. C. Butterfield	290,849	Dec. 25	1882	520	25	1240
Lock-nut	B. S. Crocker	281,180	July 10	1041	289	24	191
Lock-nut	F. Maxwell	289,430	Dec. 4	70	20	25	899
Lock nut and bolt	D. Hull	271,852	Feb. 6	323	89	23	498
Lock-nut for pipe-couplings	M. A. Maus	288,250	Nov. 13	571	158	25	616
Lock-plates. Machine for securing the key-post in	G. B. Cowles	283,326	Aug. 14	1023	286, 287	24	690
Lock striking-plate	E. Parker	279,006	June 5	476	131	23	2204
Lock-tumblers. Machine for slotting and driving springs into	G. B. Cowles	286,269	Oct. 9	598	164	25	119
Locked joint	R. W. and F. Grinnell	277,479	May 15	1196	321	23	1845
Locked joint	R. W. and F. Grinnell	277,480	May 15	1197	321	23	1845
Locking-nut	G. W. Sampson	289,146	Nov. 27	1694	470	25	837
Locket	T. W. Foster	270,296	Jan. 9	556	164	23	118
Locket	T. W. Foster	273,057	Feb. 27	1864	524	23	788
Locket	F. B. Gould	277,022	May 8	645	168	23	1742
Locket	C. R. Harris	281,688	July 24	1696	461	24	313
Lockets. Manufacture of	C. S. Pine	277,339	May 8	1030	276	23	1810
Locomotive	A. A., E., and H. Blackman	272,633	Feb. 20	1326	372	23	687
Locomotive	W. E. Cole	277,994	May 22	1809	494	23	1956
Locomotive	M. A. Dees	272,218	Feb. 13	784	217, 218	23	588
Locomotive	D. R. Murphy	279,102	June 5	611	166	23	2227
Locomotive	O. Rothrock	277,428	May 8	1128	303, 304	23	1826
Locomotive	E. A. Trapp	278,470	May 29	2436	664	23	2074
Locomotive	W. T. Wells	275,739	Apr. 10	1130	309	23	1427
Locomotive and tender brake	C. W. Laupher	275,831	Apr. 17	1961	347	23	1457
Locomotive and traction engine	F. W. Webb	270,167	Jan. 2	399	115, 116	23	81
Locomotive and train brake	D. Torrey	276,928	May 1	506	132	23	1713
Locomotive ash-pan	E. Bignell	286,579	Oct. 16	1003	271	25	199
Locomotive ash-pan	C. K. Dodge	270,541	Jan. 9	879	255	23	182
Locomotive ash-pan	C. F. Smith	281,936	July 24	2015	552	24	370
Locomotive attachment	O. Wetmore	284,520	Sept. 4	443	126	24	979
Locomotive-boiler	C. B. Coventry	287,505	Oct. 30	2182	592, 593	25	423
Locomotive-boiler	C. B. Coventry	290,542	Dec. 18	1482	409	25	1162
Locomotive-boilers. Apparatus for washing out	J. T. McKenna	273,753	Mar. 13	662	177, 178	23	955
Locomotive-brake	E. Beals	271,189	Jan. 23	1685	486	23	336
Locomotive-brake	E. B. Leigh	278,242	May 22	2119	584	23	2010
Locomotive-brake	G. H. Poor	285,068	Sept. 18	1124	314	24	1111
Locomotive-brake	C. J. Schiller	283,028	Aug. 14	663	187	24	625
Locomotive-brake	W. B. Turner	278,471	May 29	2437	665	23	2074
Locomotive-cab window	J. Shields	276,907	May 1	478	126	23	1710
Locomotive-chair	G. Arbogast	287,789	Nov. 6	2	1	25	507
Locomotive cinder-chambers. Ventilator for	J. K. Taylor	282,404	July 31	2618	719	24	477
Locomotive cow-catcher	W. Phillips	289,705	Dec. 4	427	119	25	960
Locomotive cow-catchers. Revolving guard for	J. D. Fisk	288,788	Nov. 20	1262	345	25	742
Locomotive deflecting-plate	H. Millholland	282,104	July 31	2229	613	24	412
Locomotive drive-wheels. Device for magnetizing the tires of	E. J. Molera	288,356	Nov. 13	710	195	25	639
Locomotive. Electric	C. G. Curtis and F. B. Crocker	271,042	Jan. 23	1498	433	23	306
Locomotive. Electric	L. Daft	283,759	Aug. 28	1567	442	24	809
Locomotive. Electric	L. Daft	283,761	Aug. 28	1568	443	24	809
Locomotive. Electro-magnetic	S. H. Beckwith	280,559	July 3	264	72, 73	24	48
Locomotive-engine. Electric	L. Daft	289,895	Dec. 11	656	183	25	1006
Locomotive-engine cow-catcher	E. B. Lake	284,438	Sept. 4	340	04	24	961
Locomotive fuel-feeding device	J. W. Cloud	289,236	Nov. 27	1790	496	25	845
Locomotive grate-bar	I. W. Swallow	288,599	Nov. 13	1021	280	25	695
Locomotive. Logging	J. Dolbeer	290,755	Dec. 25	1769	488, 489	25	1220
Locomotive or car brake	W. B. Guernsey and W. B. Turner	278,429	May 29	2387	651	23	2065
Locomotive-pilots. Safety device for	O. Rothrock	280,959	July 10	771	214	24	141
Locomotive. Rotary-engine	I. N. Forbes	274,480	Mar. 27	1610	444, 445, 446, 447, 448, 449	23	1134
Locomotive sanding device	J. B. Collin	271,039	Jan. 23	1494	431	23	305
Locomotive sanding device	J. B. Collin	272,414	Feb. 20	1049	294	23	638
Locomotive smoke-box	J. C. Farmer	275,812	Apr. 17	1243	342	23	1454
Locomotive steam-brake	W. B. Wallace	278,299	May 22	2206	606	23	2025
Locomotive-tender	T. Mulheirn	270,330	Jan. 9	599	177	23	127
Locomotive-tenders. Coupling attachment for	G. H. Colby	288,209	Nov. 13	518	144	25	607
Locomotive-tenders while in motion. Method of and device for coaling	M. H. Lantz	276,051	Apr. 17	1522	419	23	1503
Locomotive. Tramway	J. and J. Quick, Jr	276,075	Apr. 17	1548	426, 427	23	1508
Locomotive. Tramway	W. Wilkinson	276,948	May 1	541	141	23	1718
Locomotive-whistle attachment. Automatic	J. W. Strickle and H. W. Manning	290,718	Dec. 25	1717	473, 474	25	1211
Locomotives. Blast-concentrator for	H. Millholland	282,103	July 31	2227	612, 613	24	411
Locomotives. Device for increasing the traction of	J. Elder	290,012	Dec. 11	799	225	25	1034
Locomotives. Reflecting-mirror attachment for	D. Frost and H. Cartwright	282,623	Aug. 7	179	52	24	531
Locomotives with coal. Supplying	J. B. Collin. (Reissue)	10,417	Dec. 4	523	144	25	977
Log-canter	G. Mee	279,660	June 19	1305	363	23	2360
Log-roller	F. S. Farr and J. Evered	288,415	Nov. 13	796	216	25	654
Log-roller	L. T. Kline	278,022	May 22	1845	503	23	1962
Logging-crab. Steam	C. C. Badgley	270,873	Jan. 16	1287	371	23	266

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Logging-engine	J. Delbeer	290,755	Dec. 25	1768	468	25	1220
Logging-wheel	G. W. Jessie	273,043	Feb. 27	1550	518	23	736
Looking-glass frame. Portable	F. Roeder	270,130	Jan. 2	355	104	23	72
Loom	G. Crompton	274,913	Apr. 3	27	6	23	1231
Loom	G. Crompton	292,502	Aug. 7	31	9, 10	24	586
Loom	W. Evans	281,476	July 17	1494	390, 391	24	283
Loom	L. J. Knowles	272,062	Feb. 13	586	161	23	555
Loom	L. J. Knowles	274,502	Mar. 27	1643	457	23	1139
Loom for making French harness	A. Urbahn	289,872	Dec. 11	686	174, 175	25	1083
Loom for weaving bags, &c	J. Laird, Jr	286,711	Oct. 16	1176	316, 317	25	229
Loom for weaving carpets	W. H. Bairstow	289,955	Dec. 11	721	204	25	1039
Loom for weaving double-pile fabrics	S. C. Lister and J. Reixach	292,652	Aug. 7	212	62	24	536
Loom for weaving figured double-pile fabrics. Power-	S. C. Lister and J. Reixach	289,671	Dec. 4	386	104, 105, 106	25	952
Loom for weaving flag matting	J. S. Winsor	280,891	July 10	682	192, 193	24	127
Loom for weaving moquette carpets	H. Skinner	285,767	Sept. 25	1970	558, 559, 560	24	1267
Loom for weaving tufted fabrics	C. E. Skinner	270,346	Jan. 9	619	183	23	131
Loom for weaving tufted fabrics	C. E. Skinner	270,495	Jan. 9	808	235, 236	23	168
Loom for weaving tufted fabrics	C. E. Skinner	288,366	Nov. 13	595	163	25	689
Loom for weaving tufted fabrics	C. E. Skinner	288,367	Nov. 13	597	164	25	689
Loom for weaving tufted fabrics	C. E. Skinner and E. Tymeson	288,368	Nov. 13	599	164	25	689
Loom. Hand	W. Schilling	276,478	Apr. 24	2063	573	23	1604
Loom. Hand	A. Wright	273,333	Mar. 6	130	34	23	854
Loom harness-motion	W. G. Tillou and J. W. Clapp	290,286	Dec. 18	1134	318	25	1102
Loom-harness straps. Machine for making	S. L. Johnston	272,055	Feb. 13	567	158	23	554
Loom. Jacquard	J. O. Fryer. (Reissue)	10,379	Sept. 11	1020	286, 287	24	1067
Loom lease-rod	W. Brown	288,303	Nov. 13	635	174	25	697
Loom let-off mechanism	S. H. Jones	289,420	Dec. 4	57	16	25	896
Loom let-off mechanism. Locking attachment for	T. Platt	273,889	Mar. 13	839	228	23	986
Loom letting-off motion	J. Williamson, J. and G. Swindells	279,626	June 19	1263	350	23	2353
Loom picker-staff check	A. Hallowell	288,631	Nov. 20	1062	292	25	708
Loom picker-staff check	J. S. Richardson	279,597	June 19	1232	341	23	2347
Loom picker-staff check	L. Whitney and H. K. Jackson	285,941	Oct. 2	210	59	25	40
Loom picker-stick holder	W. J. Dunn	278,111	May 22	1945	533	23	1980
Loom picker-stick-operating mechanism	W. Evans	281,254	July 17	1148	316	24	216
Loom. Power-	R. Simon	286,051	Oct. 2	372	103	25	68
Loom. Ribbon-	R. Koblhaas	289,916	Dec. 11	683	190	25	1013
Loom shedding mechanism	H. Bünzli	271,033	Jan. 23	1489	429	23	305
Loom shedding mechanism	R. S., E., and R. Collinge	286,783	Oct. 16	1262	342	25	244
Loom-shuttle	A. Clans	280,797	July 10	578	161	24	109
Loom-shuttle	G. W. Doe	271,433	Jan. 30	1998	577	23	401
Loom-shuttle	F. J. Freese	276,019	Apr. 17	1483	409	23	1497
Loom-shuttle	J. P. Thompson	284,089	Aug. 28	1983	552	24	881
Loom-shuttle	W. P. Uhlinger	288,602	Nov. 13	1025	281	25	695
Loom shuttle-binder	W. Kothe	270,228	Jan. 9	477	140	23	104
Loom shuttle-motion	W. G. Tillou and J. W. Clapp	290,285	Dec. 18	1133	318	25	1102
Loom-shuttle spindle	W. T. Coggeshall	273,468	Mar. 6	296	80	23	883
Loom-shuttle threader	W. E. N. Potter	286,731	Oct. 16	1201	324	25	233
Loom-stopping mechanism	T. W. Sharkey	283,289	Aug. 14	979	273	24	682
Loom take-up motion	W. G. Tillou and J. W. Clapp	290,287	Dec. 18	1136	319	25	1102
Loom-temple	G. Crompton and H. Wyman	284,120	Aug. 28	2025	563	24	889
Loom-temple	J. H. Crowley	276,959	May 1	558	145	24	1721
Loom-temple	J. B. Stamour	274,404	Mar. 20	1490	410	23	1106
Loom-temple	E. S. Stimpson	288,742	Nov. 20	1207	330	25	731
Loom. Vertical	J. MacFarlane	278,715	June 5	51	16	23	2133
Loom warp-stop-motion	W. G. Tillou and J. W. Clapp	289,871	Dec. 11	694	173, 174	25	1002
Loom weft-stop mechanism	T. Isherwood	288,814	Nov. 20	1290	353	25	747
Loom weft stop-motion	J. M. Linscott	278,304	June 5	171	50	23	2152
Loom weft stop-motion	F. O. Tucker	273,193	Feb. 27	2031	571, 572	23	818
Looms. Anchor shuttle-box motion for	C. Strobel	290,138	Dec. 11	945	268	25	1002
Looms. Brake mechanism for anchor shuttle-box motions for	F. Leclère	274,127	Mar. 20	1138	313	23	1044
Looms. Cloth-holding roller for	O. W. Kenison	277,742	May 15	1501	407	23	1896
Looms. Device for connecting picking-straps to the picking-sticks of	T. H. Logan	290,899	Dec. 25	1943	536	25	1250
Looms for weaving elastic webbing. Stop-motion for	B. A. Mann	288,462	Nov. 13	855	231	25	664
Looms for weaving tubular fabrics. Temple for	L. C. Mason	283,127	Aug. 14	779	219	24	645
Looms. Pattern chain-bar for	H. F. Rice	283,816	Aug. 28	1634	460	24	820
Looms. Pile-wire motion for	J. Hobson	281,069	July 10	899	250	24	166
Looms. Positive shuttle-motion for	C. B. Rumsey	280,960	July 10	772	214	24	142
Looms. Sweep-strap connection for picker-sticks of	S. W. Sykes	286,971	Oct. 16	1501	413	25	285
Lounges. Adjustable leg for folding	A. S. Newby	279,789	June 19	1448	405	23	2385
Lounges. Combined leg and clasp for folding	F. E. Campbell	279,536	June 19	1164	322	23	2335
Low-water alarm. Electrical	J. E. Blake and C. A. Hall	286,581	Oct. 16	1005	271	25	199
Lozenge-machine	O. R. Chase	279,913	June 26	1604	450, 451	23	2419
Lozenge-machine	C. H. Hall	273,518	Mar. 6	357	94, 95	23	895
Lubricant for steam-cylinders	T. Colgan	280,134	June 26	1871	.....	23	2466
Lubricant for the cocks and valves of gas apparatus	W. M. Jackson	280,625	July 3	346	.....	24	61
Lubricant for wire	W. E. Rice	270,338	Jan. 9	609	.....	23	129
Lubricating and cooling compound. Combined	J. W. Williamson	278,067	May 22	1890	.....	23	1971
Lubricating apparatus	O. Colvin	277,410	May 8	1105	297	23	1822
Lubricating apparatus	F. Jarecki	283,401	Aug. 21	1129	319	24	716

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lubricating attachment. Steam-engine	H. H. Westinghouse	271,005	Jan. 23	1461	490	23	300
Lubricating-axles. Composition for	H. W. Reddan	276,711	May 1	230	.....	23	1664
Lubricating bearings. Apparatus for	H. Reisert	287,963	Nov. 6	221	62, 63	25	546
Lubricating compound	G. Dimick	287,643	Oct. 30	2372	.....	25	460
Lubricating compound	H. E. Leppier	278,243	May 22	2121	.....	23	2011
Lubricating compound for the plates of tobacco-presses	W. A. and W. M. Strother	280,879	July 10	669	.....	24	125
Lubricating-cup	S. P. Weller and G. R. Roesch	280,423	July 3	105	28	24	20
Lubricating-eccentric	B. S. Roy	276,885	May 1	451	121	23	1706
Lubricating gas-meter shafts	J. Burton	282,610	Aug. 7	162	49	24	529
Lubricating journal-bearings	J. Garland and J. Kenyon	274,755	Mar. 27	1943	540	23	1193
Lubricating mechanism	W. M. Brinkerhoff	282,837	Aug. 7	431	122	24	576
Lubricating vertical bearings	A. Hatch	280,742	July 3	490	138	24	87
Lubricator: *See* Automatic lubricator. Axle-lubricator. Car-journal lubricator. Car-wheel lubricator. Engine-lubricator. Engine-cylinder lubricator. Engine-slide lubricator. Gearing-lubricator. Journal-lubricator. Pneumatic lubricator. Wrist-pin lubricator.							
Lubricator	H. Allton	275,971	Apr. 17	1424	392, 393	23	1487
Lubricator	D. Appel and R. G. McAuley	290,728	Dec. 25	1730	478	25	1213
Lubricator	C. W. Baldwin	287,085	Oct. 23	1653	454	25	319
Lubricator	A. E. Barthel	287,900	Nov. 6	140	41	25	532
Lubricator	J. M. Battin, Jr	579,120	June 12	648	177	23	2244
Lubricator	C. W. Booth	283,695	Aug. 21	1475	415	24	781
Lubricator	W. H. Bowen	270,626	Jan. 16	984	284	23	209
Lubricator	C. F. Bowman	279,699	June 19	1352	376	23	2368
Lubricator	A. Bradford	280,562	July 3	270	74	24	49
Lubricator	W. W. Brisben	281,010	July 10	826	230	24	153
Lubricator	M. S. Cabell	289,888	Dec. 11	648	180	25	1006
Lubricator	S. G. Cabell	283,860	Aug. 28	1680	475	24	828
Lubricator	M. L. Conway	285,465	Sept. 25	1601	449	24	1201
Lubricator	W. H. Craig	277,464	May 15	1180	317	23	1842
Lubricator	W. H. Craig	281,241	July 17	1128	310	24	213
Lubricator	L. P. Dollison	270,762	Jan. 16	1162	332	23	242
Lubricator	T. R. Freeman	286,289	Oct. 9	648	172	25	128
Lubricator	J. Graham	283,481	Aug. 21	1226	345	24	733
Lubricator	J. A. Green	288,328	Nov. 13	676	186	25	632
Lubricator	C. C. Hodges	275,768	Apr. 10	1179	323	23	1435
Lubricator	H. F. Hodges	290,428	Dec. 18	1330	369	25	1136
Lubricator	R. J. Hoffman	286,005	Oct. 2	278	78	25	52
Lubricator	R. J. Hoffman	288,434	Nov. 13	817	221	25	658
Lubricator	T. Holland	290,685	Dec. 25	1668	460	25	1201
Lubricator	A. Ittner	284,303	Sept. 4	182	51	24	985
Lubricator	F. Jarecki	283,399	Aug. 21	1127	319	24	716
Lubricator	F. Jarecki	283,400	Aug. 21	1128	319	24	716
Lubricator	O. H. Jewell	270,805	Jan. 16	1210	349	23	252
Lubricator	J. Kelly	281,699	July 24	1714	466	24	317
Lubricator	E. McCoy	270,238	Jan. 9	469	144	23	106
Lubricator	W. L. Parker	279,592	June 19	1224	340	23	2346
Lubricator	C. H. Parshall, Jr	283,017	Aug. 14	652	184	24	623
Lubricator	W. P. Phillips	276,068	Apr. 17	1542	424	23	1506
Lubricator	S. Reid	273,312	Mar. 6	89	27	23	849
Lubricator	F. J. Renchard	278,741	June 5	83	24	23	2138
Lubricator	J. V. Renchard	273,158	Feb. 27	1991	560, 561	23	810
Lubricator	J. V. Renchard	273,314	Mar. 6	93	27, 28	23	849
Lubricator	J. V. Renchard	275,707	Apr. 10	1090	297, 298	23	1420
Lubricator	J. V. Renchard	285,432	Sept. 25	1562	440	24	1194
Lubricator	J. V. Renchard	288,665	Nov. 20	1104	303	25	715
Lubricator	J. Rudolphs	282,781	Aug. 7	367	104	24	565
Lubricator	F. S. Somes and S. H. Kimball	282,127	July 31	2277	625	24	418
Lubricator	R. Stevens and W. I. Mann	283,361	Aug. 14	1079	303	24	701
Lubricator	A. W. Swift	272,793	Feb. 20	1524	429	23	792
Lubricator	A. W. Swift	283,931	Aug. 28	1767	499	24	844
Lubricator	A. W. Swift	284,340	Sept. 4	220	62	24	942
Lubricator	J. Walker, Jr	289,477	Dec. 4	127	36	25	909
Lubricator	J. Yule	287,988	Nov. 6	256	73	25	552
Lubricator	H. Zweiffel	290,382	Dec. 18	1256	352	25	1124
Lumber. Apparatus for drying and seasoning	J. O. Smith. (Reissue)	10,393	Oct. 16	1523	419	25	288
Lumber-drier	W. S. Bates	280,440	July 3	130	34, 35	24	24
Lumber-drier	J. J. Curran	274,282	Mar. 20	1333	368	23	1079
Lumber-drier	D. F. Noyes	286,552	Oct. 9	961	259	25	185
Lumber-drier	J. O. Smith	286,234	Oct. 9	551	151	25	111
Lumber. Drying and seasoning	J. F. Walter, Jr	287,351	Oct. 23	1988	.....	25	380
Lumber drying and seasoning apparatus	J. O. Smith	270,138	Jan. 2	367	106	23	75
Lumber-edging machine	H. R. Barnhurst	272,190	Feb. 13	749	207	23	581
Lumber. Elevating-machine for cross-piling	S. Lee and R. Weir	288,073	Nov. 6	350	98	25	567
Lumber for walls	J. E. Brong and E. A. Carter	285,218	Sept. 18	1302	367	24	1142
Lumber-jointing device	C. A. Williams	289,948	Dec. 11	713	201, 202	25	1018
Lumber. Treating	E. J. Story	276,499	Apr. 24	2089	580	23	1608
Lumber-trimming machine	W. B. Swartwout	279,040	June 5	523	143	23	2212
Lunch-box	W. Felstead	277,251	May 8	925	248	23	1791
Lunch-box	J. R. Olinger	279,662	June 19	1308	364	23	2361
Lunch-case	D. H. Mathias	271,724	Feb. 6	163	45	23	469
Machine-table	M. Dainard	284,391	Sept. 4	285	79, 80	24	952
Machine-table	W. H. Doane and G. W. Bugbee	272,220	Feb. 13	786	218, 219	23	588
Machine-wrench	J. Davis	289,396	Dec. 4	28	9	25	892

Alphabetical list of inventions—Continued.

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				Spec.	Dr'g.	Vol.	Page.
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Loom-temple	J. B. Stamour	274,404	Mar. 20	1490	410	23	1106
Loom-temple	E. S. Stimpson	288,742	Nov. 20	1207	330	25	731
Loom. Vertical	J. MacFarlane	278,715	June 5	51	16	23	2133
Loom warp-stop-motion	W. G. Tillou and J. W. Clapp	289,871	Dec. 11	624	173, 174	25	1002
Loom weft-stop mechanism	T. Isherwood	288,814	Nov. 20	1290	353	25	747
Loom weft stop-motion	J. M. Linscott	278,904	June 5	171	50	23	2152
Loom weft stop-motion	F. O. Tucker	273,193	Feb. 27	2031	571, 572	23	818
Looms. Anchor shuttle-box motion for	C. Strobel	290,138	Dec. 11	945	268	25	1002
Looms. Brake mechanism for anchor shuttle-box motions for	F. Leclère	274,127	Mar. 20	1138	313	23	1044
Looms. Cloth-holding roller for	O. W. Kenison	277,742	May 15	1501	407	23	1896
Looms. Device for connecting picking-straps to the picking-sticks of	T. H. Logan	290,899	Dec. 25	1943	536	25	1250
Looms for weaving elastic webbing. Stop-motion for	B. A. Mann	288,462	Nov. 13	855	231	25	664
Looms for weaving tubular fabrics. Temple for	L. C. Mason	283,127	Aug. 14	779	219	24	645
Looms. Pattern chain-bar for	H. F. Rice	283,816	Aug. 28	1634	460	24	820
Looms. Pile-wire motion for	J. Hobson	281,069	July 10	899	250	24	166
Looms. Positive shuttle-motion for	C. B. Rumsey	280,960	July 10	772	214	24	142
Looms. Sweep-strap connection for picker-sticks of	S. W. Sykes	286,971	Oct. 16	1501	413	25	285
Lounges. Adjustable leg for folding	A. S. Newby	279,789	June 19	1448	405	23	2385
Lounges. Combined leg and clasp for folding	F. E. Campbell	279,536	June 19	1164	322	23	2235
Low-water alarm. Electrical	J. E. Blake and C. A. Hall	286,581	Oct. 16	1005	271	25	199
Lozenge-machine	O. R. Chase	279,913	June 26	1604	450, 451	23	2419
Lozenge-machine	C. H. Hall	273,518	Mar. 6	357	94, 95	23	895
Lubricant for steam-cylinders	T. Colgan	280,134	June 26	1871	.....	23	2466
Lubricant for the cocks and valves of gas apparatus	W. M. Jackson	280,625	July 3	346	.....	24	61
Lubricant for wire	W. E. Rice	270,338	Jan. 9	609	.....	23	129
Lubricating and cooling compound. Combined	J. W. Williamson	278,067	May 22	1890	.....	23	1971
Lubricating apparatus	O. Colvin	277,410	May 8	1105	297	23	1822
Lubricating apparatus	F. Jarecki	283,401	Aug. 21	1129	319	24	716

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lubricating attachment. Steam-engine	H. H. Westinghouse	271,005	Jan. 23	1461	420	23	300
Lubricating-axles. Composition for	H. W. Reddan	276,711	May 1	230	.....	23	1664
Lubricating bearings. Apparatus for	H. Reisert	287,963	Nov. 6	921	62, 63	25	546
Lubricating compound	G. Dimick	287,643	Oct. 30	2372	.....	25	460
Lubricating compound	H. E. Lepper	278,243	May 22	2121	.....	23	2011
Lubricating compound for the plates of tobacco-presses.	W. A. and W. M. Strother	280,879	July 10	669	.....	24	125
Lubricating-cup	S. P. Weller and G. R. Roesch	280,423	July 3	105	28	24	20
Lubricating-eccentric	B. S. Roy	276,885	May 1	451	121	23	1706
Lubricating gas-meter shafts	J. Burton	282,610	Aug. 7	162	49	24	529
Lubricating journal-bearings	J. Garland and J. Kenyon	274,755	Mar. 27	1943	540	23	1193
Lubricating mechanism	W. M. Brinkerhoff	282,837	Aug. 7	431	122	24	576
Lubricating vertical bearings	A. Hatch	280,742	July 3	490	138	24	87
Lubricator: *See* Automatic lubricator. Axle-lubricator. Car-journal lubricator. Car-wheel lubricator. Engine-lubricator. Engine-cylinder lubricator. Engine-slide lubricator. Gearing-lubricator. Journal-lubricator. Pneumatic lubricator. Wrist-pin lubricator.							
Lubricator	H. Allton	275,971	Apr. 17	1424	392, 393	23	1487
Lubricator	D. Appel and R. G. McAuley	290,728	Dec. 25	1730	478	25	1213
Lubricator	C. W. Baldwin	287,085	Oct. 23	1653	454	25	319
Lubricator	A. E. Barthel	287,900	Nov. 6	140	41	25	532
Lubricator	J. M. Battin, Jr	579,120	June 12	648	177	23	2244
Lubricator	C. W. Booth	283,695	Aug. 21	1475	415	24	781
Lubricator	W. H. Bowen	270,626	Jan. 16	984	284	23	209
Lubricator	C. F. Bowman	279,699	June 19	1352	376	23	2368
Lubricator	A. Bradford	280,562	July 3	270	74	24	49
Lubricator	W. W. Brisben	281,010	July 10	826	230	24	153
Lubricator	M. S. Cabell	289,888	Dec. 11	648	180	25	1006
Lubricator	S. G. Cabell	283,860	Aug. 28	1680	475	24	828
Lubricator	M. L. Conway	285,465	Sept. 25	1601	449	24	1201
Lubricator	W. H. Craig	277,464	May 15	1180	317	23	1842
Lubricator	W. H. Craig	281,241	July 17	1128	310	24	213
Lubricator	L. P. Dollison	270,762	Jan. 16	1162	332	23	242
Lubricator	T. R. Freeman	286,289	Oct. 9	648	172	25	128
Lubricator	J. Graham	283,481	Aug. 21	1226	345	24	733
Lubricator	J. A. Green	288,328	Nov. 13	676	186	25	632
Lubricator	C. C. Hodges	275,768	Apr. 10	1179	323	23	1435
Lubricator	H. F. Hodges	290,428	Dec. 18	1330	369	25	1136
Lubricator	R. J. Hoffman	286,005	Oct. 2	278	78	25	52
Lubricator	R. J. Hoffman	288,434	Nov. 13	817	221	25	658
Lubricator	T. Holland	290,685	Dec. 25	1668	460	25	1201
Lubricator	A. Ittner	284,303	Sept. 4	182	51	24	985
Lubricator	F. Jarecki	283,399	Aug. 21	1127	319	24	716
Lubricator	F. Jarecki	283,400	Aug. 21	1128	319	24	716
Lubricator	O. H. Jewell	270,805	Jan. 16	1210	349	23	252
Lubricator	J. Kelly	281,699	July 24	1714	466	24	317
Lubricator	E. McCoy	270,238	Jan. 9	489	144	23	106
Lubricator	W. L. Parker	279,592	June 19	1224	340	23	2346
Lubricator	C. H. Parshall, Jr	283,017	Aug. 14	652	184	24	623
Lubricator	W. P. Phillips	276,068	Apr. 17	1542	424	23	1506
Lubricator	S. Reid	273,312	Mar. 6	89	27	23	849
Lubricator	F. J. Renchard	278,741	June 5	83	24	23	2138
Lubricator	J. V. Renchard	273,158	Feb. 27	1991	560, 561	23	810
Lubricator	J. V. Renchard	273,314	Mar. 6	93	27, 28	23	849
Lubricator	J. V. Renchard	275,707	Apr. 10	1090	297, 298	23	1420
Lubricator	J. V. Renchard	285,432	Sept. 25	1562	440	24	1194
Lubricator	J. V. Renchard	288,665	Nov. 20	1104	303	25	715
Lubricator	J. Rudolphs	282,781	Aug. 7	367	104	24	565
Lubricator	F. S. Somes and S. H. Kimball	282,127	July 31	2277	625	24	418
Lubricator	R. Stevens and W. L. Mann	283,361	Aug. 14	1079	303	24	701
Lubricator	A. W. Swift	272,793	Feb. 20	1524	429	23	722
Lubricator	A. W. Swift	283,931	Aug. 28	1767	499	24	844
Lubricator	A. W. Swift	284,340	Sept. 4	220	62	24	942
Lubricator	J. Walker, Jr	289,477	Dec. 4	127	36	25	909
Lubricator	J. Yule	287,988	Nov. 6	256	73	25	552
Lubricator	H. Zweiffel	290,382	Dec. 18	1256	352	25	1124
Lumber. Apparatus for drying and seasoning	J. O. Smith. (Reissue)	10,393	Oct. 16	1523	419	25	288
Lumber-drier	W. S. Bates	280,440	July 3	130	34, 35	24	24
Lumber-drier	J. J. Curran	274,282	Mar. 20	1333	368	23	1079
Lumber-drier	D. F. Noyes	286,552	Oct. 9	961	259	25	185
Lumber-drier	J. O. Smith	286,234	Oct. 9	551	151	25	111
Lumber. Drying and seasoning	J. F. Walter, Jr	287,351	Oct. 23	1988	.....	25	380
Lumber drying and seasoning apparatus	J. O. Smith	270,138	Jan. 2	367	106	23	75
Lumber-edging machine	H. R. Barnhurst	272,190	Feb. 13	749	207	23	581
Lumber. Elevating-machine for cross-piling	S. Lee and R. Weir	288,073	Nov. 6	350	98	25	567
Lumber for walls	J. E. Brong and E. A. Carter	285,218	Sept. 18	1302	367	24	1142
Lumber-jointing device	C. A. Williams	289,948	Dec. 11	713	201, 202	25	1018
Lumber. Treating	E. J. Story	276,499	Apr. 24	2089	580	23	1608
Lumber-trimming machine	W. B. Swartwout	279,040	June 5	523	143	23	2212
Lunch-box	W. Felstead	277,251	May 8	925	248	23	1791
Lunch-box	J. R. Olinger	279,662	June 19	1308	364	23	2361
Lunch-case	D. H. Mathias	271,724	Feb. 6	163	45	23	469
Machine-table	M. Dainard	284,391	Sept. 4	285	79, 80	24	952
Machine-table	W. H. Doane and G. W. Bugbee	272,220	Feb. 13	786	218, 219	23	588
Machine-wrench	J. Davis	289,396	Dec. 4	98	9	25	892

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Machinery. Rope-driving	W. A. Roebling	270,129	Jan. 2	354	103	23	72
Magnetic plaster	C. S. Russell	272,604	Feb. 27	1690	473	23	757
Magnetic separator	J. La Breche Viger	278,976	June 5	441	120	23	2198
Magneto and dynamo electric machine	A. I. Gravier	276,380	Apr. 24	1958	542 543	23	1585
Magneto call	H. Than	290,495	Dec. 18	1417	392	25	1152
Magneto-electric generator	M. S. Conly	285,799	Oct. 2	21	7	25	6
Magneto-electric generator	C. C. Peck and W. H. Chapman	276,274	Apr. 24	1797	500 501	23	1559
Magneto-electric generators. Automatic shunt for	E. T. Gilliland	272,234	Feb. 13	986	294	23	582
Magneto-electric generators. Break key attachment for	J. S. Ross	290,709	Dec. 25	1707	470	25	1289
Magneto-electric machine	C. M. Ball	290,199	Dec. 18	1621	288	25	1083
Magneto-electric machine	J. S. Beeman	288,915	Nov. 20	1411	389	25	770
Magneto-electric machine	S. Marcus	275,237	Apr. 3	454	126	23	1304
Magneto-electric machine	A. Millar	270,457	Jan. 9	766	225	23	159
Magneto-electric machine	P. P. Nungesser	287,773	Oct. 30	2552	686 687	25	494
Magneto-electric machine	H. M. Paine	290,350	Dec. 18	1214	340 341 342	25	1117
Magneto-electric machine	C. A. Seeley	277,069	May 8	709	184	23	1753
Magneto-electric machines. Armature for	E. T. Gilliland	270,945	Jan. 23	1385	480	23	298
Magneto-electric signaling apparatus	T. A. Edison	273,714	Mar. 13	697	163	23	945
Magneto-electric signaling apparatus	T. A. Edison	292,287	July 31	2463	679	24	459
Magneto-generator of electricity	J. P. Stabler	286,497	Oct. 9	892	241	25	172
Mail-bag	D. Bloom	292,152	July 31	2303	632	24	422
Mail-bag	L. H. Northrup	272,577	Feb. 20	1256	350	23	674
Mail-bag	W. A. Williams	280,429	July 3	114	30	24	22
Mail-bag catcher	J. A. Kellogg	286,932	Oct. 16	1448	398	25	275
Mail-bag catcher	J. L. Oliver	273,361	Mar. 6	187	51	23	886
Mail-bag catcher and deliverer	E. W. Thompson and A. M. Moore	271,543	Jan. 30	2136	614	23	494
Mail-bag fastening	T. H. Smith	285,518	Sept. 25	1660	467	24	1212
Mail-bag fastening	D. W. Snyder	286,339	Oct. 9	712	190	25	139
Mail-conveyer. Electric	E. Nicolaisen	271,904	Feb. 6	385	106	23	588
Mail-elevator. Automatic	J. W. Paine	276,707	May 1	221	57	23	1662
Mail-pouches. Hinged mouth-piece for	T. M. Cardwell and N. B. Perry	280,572	July 3	221	77	24	51
Mailing-packet	C. H. Leonard	281,892	July 24	1967	538	24	361
Mains and pipes for the distribution of gas, &c. System of	H. C. Rew	290,925	Dec. 25	1972	544	25	1256
Mallet	S. G. Howe	276,947	Apr. 24	1765	491	23	1553
Mallet. Electric	J. R. Finney	270,187	Jan. 2	422	122	23	86
Mallet. Stone-cutter's	D. Lowers	280,050	June 26	1780	499	23	2449
Malt, &c. Apparatus for drying and roasting	L. Mantner	275,097	Apr. 3	286	78, 79	23	1375
Malt. Apparatus for making	D. D. Weschler	270,619	Jan. 16	977	282	23	208
Malt-drying apparatus	J. W. Brown	277,876	May 22	1670	456	23	1933
Malt extract. Manufacture of	J. W. Forbes	288,702	Nov. 20	1152	.....	25	722
Malt-kiln	H. Altenbrand	271,184	Jan. 23	1681	485	23	336
Malt-kiln	G. and P. Renner and G. H. Knight	283,723	Aug. 21	1510	426 427	24	787
Malt-kiln. Continuous	J. Ulrich	271,551	Jan. 30	2145	617 618	23	426
Malt-kiln floor	P. Weinig	281,396	July 17	1235	342	24	231
Malting apparatus	C. G. Bosch	277,107	May 8	753	198	23	1760
Malting apparatus	W. F. Howe	272,257	Feb. 13	833	232 233	23	597
Malting grain. Process of and apparatus for	H. Kropff	283,494	Aug. 21	1945	349	24	736
Maltsters' steep-tanks. Discharge-valve for	F. W. Wolf	282,477	July 31	2715	747 748	24	493
Mandrel for bending tubes	E. S. Leaycraft	279,573	June 19	1206	333	23	2342
Manger. Folding	L. Birdlebough	288,917	Nov. 20	1412	389	25	770
Mangle	A. T. Abbott	289,054	Nov. 27	1588	439	25	807
Mantel, ceiling, &c. Ornamental	J. McCully	280,492	July 3	196	52	24	36
Mantua-making	M. B. Ross	273,160	Feb. 27	1997	561 562	23	811
Manual power	J. Bates	278,306	May 29	2227	611	23	2037
Manure-distributer	V. M. Snow	287,735	Oct. 30	2496	672 673	25	484
Manure-drill	H. T. King	281,191	July 10	1055	291	24	193
Manure-fork, &c. Wheel-mounted	G. H. Howland	285,486	Sept. 25	1622	455	24	1205
Manure-spreader	E. C. Strange	285,086	Sept. 18	1146	320	24	1114
Map and chart case	H. E. Moon	276,267	Apr. 24	1788	497	23	1557
Map-case	H. R. Fry	273,059	Feb. 27	1866	524	23	788
Map. Educational	W. R. Norris	279,268	June 12	813	225	23	2272
Map-holder	C. Marlin	279,961	June 26	1667	468	23	2429
Marble and rendering the same fire-proof and water-proof. Producing artificial	R. Guelton	290,417	Dec. 18	1299	.....	25	1132
Marble-playing board	E. W. A. Meyer	284,880	Sept. 11	884	248	24	1062
Marble surfaces. Composition for cleaning	R. F. Dickson	290,754	Dec. 25	1768	.....	25	1290
Marker. Check-row	J. Heald	282,888	Aug. 7	495	139	24	568
Marker. Ground-	J. S. Lake	284,439	Sept. 4	341	94	24	961
Marker. Land-	L. Gairaud	287,118	Oct. 23	1696	464	25	327
Marker. Land-	J. J. Melville	270,823	Jan. 16	1232	356	23	256
Marking boots, shoes, and other articles. Device for	F. Venn	284,149	Aug. 28	2063	572	24	894
Martingale-ring of celluloid, &c	D. C. Lockwood	276,435	Apr. 24	2010	557	23	1595
Mash for fermentation. Apparatus for preparing	H. F. Moore	275,247	Apr. 3	463	129	23	1306
Mash heating and cooling device	C. Dodsworth and P. Burke	271,692	Feb. 6	127	35	23	462
Mash. Making and cooling	T. Hayes	288,333	Nov. 13	681	187	25	634
Mash-tun. Compound	C. Pfeffer	280,396	July 3	68	19	24	15
Mask-fastener	C. H. Dessart	282,285	July 31	2461	678	24	450
Mask for base-ball catchers	A. K. Schnap	287,331	Oct. 23	1963	536	25	375
Mask. Wire	H. C. Lee	287,137	Oct. 23	1715	470	25	332
Mast and spar	E. S. Hicks	273,529	Mar. 6	369	98	23	897
Mast-shield	J. A. Avery	288,153	Nov. 6	442	124	25	585

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Masts. Device for unshipping	J. F. Walthour	282,592	Aug. 7	144	43	24	536
Mat: *See* Cuspidor-mat. Floor-mat. Oil-mat. Oil-press mat. Oil-press hair mat. Slop-jar mat.							
Mat	R. Martinez	283,501	Aug. 21	1254	352	24	738
Mat	R. Martinez	284,457	Sept. 4	362	100	24	965
Mat	R. Martinez	284,567	Sept. 4	498	140	24	988
Mat-lock	J. J. King	274,788	Mar. 27	1985	552	23	1200
Mat or removable floor-covering	R. Martinez	281,540	July 17	1499	412	24	276
Match	R. Platz	275,074	Apr. 3	254	70	23	1269
Match and box therefor	G. L. Jaeger	280,181	June 26	1918	539	23	2474
Match and tooth-pick box. Combined	L. B. Wilson	271,011	Jan. 23	1469	422	23	301
Match-box	W. S. Beecher	284,596	Sept. 11	536	151	24	1001
Match-box	J. Darling and J. J. Long	283,579	Aug. 21	1342	374	24	755
Match-box	H. E. Hutchinson	278,555	May 29	2536	692	23	2092
Match-box	G. L. Jaeger	270,073	Jan. 2	287	85	23	58
Match-box	G. L. Jaeger	281,075	July 10	908	253	24	168
Match-box	T. Remus	283,143	Aug. 14	795	222	24	648
Match-box	R. Wallace	274,864	Mar. 27	2077	577	23	1215
Match-boxes. Machine for making	E. B. Beecher and R. T. Elliott	281,958	July 24	2040	558, 559, 560	24	374
Match-card	C. B. Gardiner	280,810	July 10	590	165	24	111
Match-cards. Machine for sawing	G. Flewwelling and G. J. Harris	272,675	Feb. 20	1376	386, 387	23	696
Match-dipping apparatus	G. H. Millen, J. H. Mantion, F. Labelle, and T. A. Cook.	280,650	July 3	374	104	24	66
Match-dipping machine	T. A. Cook and F. Labelle	277,462	May 15	1178	316	23	1842
Match. Friction-	F. Gerken	285,610	Sept. 25	1772	502	24	1233
Match-holder	R. V. Jones	271,580	Jan. 30	2178	627	23	432
Match-igniter	J. Pusey	271,737	Feb. 6	180	49	23	471
Match-lighter and cigar-cutter. Combined	T. W. Rickel	281,298	July 17	1198	331	24	225
Match-machine	P. Beer	272,113	Feb. 13	666	181	23	567
Match-machine	C. J. Donnelly	270,403	Jan. 9	697	206	23	146
Match-making machine	C. B. Gardiner	270,783	Jan. 16	1187	342	23	247
Match-making machine	G. L. Jaeger	273,848	Mar. 13	786	213, 214	23	977
Match-making machine	G. L. Jaeger	273,849	Mar. 13	789	214	23	978
Match-receptacle	F. H. Johnson	282,731	Aug. 7	316	90	24	555
Match-safe	T. B. Brown	289,500	Dec. 4	164	44	25	915
Match-safe	H. S. Cochran	282,272	July 31	2451	674	24	448
Match-safe	F. H. Waite	289,190	Nov. 27	1749	486	25	837
Match-safe. Wall	A. T. Gillender	274,310	Mar. 20	1371	376	23	1085
Match-sawing machine	G. Flewwelling and G. J. Harris	290,560	Dec. 18	1506	415	25	1167
Match-splint-adjusting machine	B. T. Steber	281,206	July 10	1077	296	24	197
Match-splint machine	G. H. Millen	281,778	July 24	1820	497	24	335
Match-splint machine	B. T. Steber	273,908	Mar. 13	859	233, 234	23	989
Match-splint separator and gatherer	B. T. Steber	271,376	Jan. 30	1924	556	23	387
Match-splints for dipping. Apparatus for filling	M. Young	271,563	Jan. 30	2159	621, 622, 623	23	429
Match-splints. Machine for making	H. A. Steber	290,492	Dec. 18	1412	390	25	1151
Match-sticks. Machine for bunching	W. H. H. Sisum	281,408	July 17	1335	369, 370	24	248
Match-sticks. Machine for bunching	W. H. H. Sisum	288,506	Nov. 13	909	248, 249	25	673
Matches. Frame for dipping	G. H. Millen	281,777	July 24	1819	496	24	335
Matches from the dipping-frame, &c. Machine for transferring	G. H. Millen	281,776	July 24	1818	496	24	335
Matches. Machinery for the manufacture of	J. H. Mitchell	284,650	Sept. 11	599	169, 170	24	1012
Matches. Manufacture of	H. Endemann	275,617	Apr. 10	987	.....	23	1403
Matches. Manufacture of	G. L. Jaeger	282,326	July 31	2525	692	24	460
Matches. Manufacture of friction-	J. H. Mitchell	284,651	Sept. 11	602	.....	24	1012
Matrix-drying press	W. J. Johnson	271,858	Feb. 6	332	91	23	499
Mattress	L. Heath	274,495	Mar. 27	1635	454	23	1138
Mattress	M. E. Smith	278,055	May 22	1880	514	23	1969
Mattress. Electric galvanic	R. Stilwell	285,852	Oct. 2	88	26	25	18
Mattress. Folding spring-	P. J. Olander	274,963	Apr. 3	105	29	23	1243
Mattress-frame	C. H. Hard	288,431	Nov. 13	815	221	25	658
Mattress-frame	W. S. Thatcher	286,866	Oct. 16	1367	374	25	262
Mattress-frames. Apparatus for stretching woven-wire fabrics upon	H. Roberts	274,142	Mar. 20	1153	318	23	1047
Mattress or bed-bottom	F. A. Palmer	282,561	Aug. 7	107	32	24	519
Mattress-spread. Electric	R. Stilwell	285,854	Oct. 2	90	27	25	18
Mattress. Spring-	G. F. Hiams	270,799	Jan. 16	1202	347	23	251
Mattress-stuffing. Manufacture of	F. Hagedorn	289,409	Dec. 4	43	.....	25	894
Mattress. Wire	S. B. Gleason	274,312	Mar. 20	1372	376	23	1085
Maul-stick	G. F. Parker	289,700	Dec. 4	421	118	25	959
Meal or flour and process of making the same. Compound	J. and M. Masters	286,033	Oct. 2	315	.....	25	58
Measure	W. A. Carpenter	289,974	Dec. 11	748	211	25	1025
Measure. Ale-cooling	T. W. Sheridan	286,967	Oct. 16	1495	411	25	284
Measure and funnel. Combined	J. P. Schüssler, Jr., and H. C. Kersten.	285,168	Sept. 18	1248	350	24	1132
Measure and funnel. Sirup	J. J. Van Kersen	272,924	Feb. 27	1710	478	23	761
Measure and scale. Combined	A. B. Upham	290,945	Dec. 25	2004	552	25	1260
Measure and weigher combined	F. Schneider	281,567	July 17	1529	419	24	280
Measure. Automatic grain-	W. R. Dunkel	282,063	July 31	2174	597	24	402
Measure. Automatic grain-	J. L. Mayer and J. Sutter	274,626	Mar. 27	1793	498	23	1165
Measure. Dress-maker's	F. E. Buddington	272,204	Feb. 13	768	213	23	585
Measure. Dress-maker's	D. C. Hamilton	276,032	Apr. 17	1500	413	23	1499

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly Patents. Page.	Official Gazette. Vol.	Official Gazette. Page.
Metal-working plant	A. Cooper	274,911	Apr. 3	62	23	1220
Metals and separating therefor. Process of reducing and smelting	J. [illegible] W. Hall, H. F. Harden, and J. H. [illegible]	290,152	Dec. 25	1386	25	1115
Metals. Combination of alloys of	J. [illegible]	274,737	Mar. 27	1458	23	1147
Metals. Extracting	A. [illegible]	291,746	Dec. 11	1458	25	1364
Metals. Extracting	[illegible] L. [illegible]	274,903	Apr. 3	1346	23	975
Metals from ores. Process of and apparatus for extracting	A. [illegible]	274,491	Feb. 13	1460	23	606
Metals from their ores. Reducing	J. Clark	277,454	May 22	1677	23	1934
Metals from their ores. Reducing	J. Clark	277,455	May 22	1677	23	1934
Metals. Machine for charging or mixing borax and [illegible]	E. E. D [illegible]	277,664	Apr. 10	960	23	1389
Metals. Ornamenting	H. Parker	288,756	Dec. 11	722	25	1009
Metals. Recovering	J. W. [illegible]	290,452	Dec. 18	1387	25	1143
Metals. Stamp	W. H. Ford	293,482	Jan. 2	66	23	16
Metals. Stamp	M. A. [illegible]	277,178	Nov. 6	406	25	573
Metals. Tempering	H. Harris	287,367	Sept. 18	1353	24	1152
Metals. Tempering	F. A. [illegible] Jr.	293,491	Jan. 2	62	23	12
Metals. Tempering. Apparatus for [illegible] and [illegible]	J. Miller	290,256	Dec. 18	1403	25	1006
Metals. Tempering [illegible]	J. Miller	286,826	Nov. 20	1317	25	752
Metals. Tempering. Machine for [illegible]	J. B. [illegible]	291,740	Feb. 6	153	23	472
Metals. Tempering. Machine for hardening	W. [illegible]	283,356	Mar. 6	18	23	637
Metals. Tempering and case-hardening	J. M. [illegible]	287,329	May 15	1351	23	1854
Metals. Tempering. Apparatus for [illegible]	W. F. Peck	283,364	Mar. 6	192	23	687
Metals. Tempering. Composition for treating	C. F. [illegible]	290,464	July 10	654	24	122
Metals. Tempering	T. F. Allen	290,231	Dec. 25	1382	25	1226
Metallurgic furnace	L. D. and L. C. Chapin	283,675	Aug. 14	716	24	635
Metallurgic furnace	S. P. Sponner	274,483	Mar. 20	1469	{409 / 410}	23	1166
Metallurgic furnace	E. D. Wansell	285,889	Oct. 2	101	29, 30	25	30
Metallurgic furnace-shell	J. Morrison	279,970	June 26	1676	471	23	2430
Metallurgic furnaces. Water jacket for	C. E. Gere	283,688	Aug. 14	745	{209 / 210}	24	630
Metallurgical furnace	S. Bissell	286,110	Oct. 2	486	111	25	75
Metallurgical furnace and water heater. Combined	A. Ruegler	289,955	July 10	767	212	24	140
Metallurgical plant	R. Forsyth	276,394	Apr. 24	1960	{539 / 540}	23	1584
Meter. See Diaphragm meter. Gas meter. Electric meter. Grain meter. Electrical meter. Rotary meter. Fluid meter. Water meter.							
Meter	R. Heinle	287,283	Oct. 23	1904	521	25	305
Metronome	E. B. Greene and C. J. Emerson, Jr.	271,448	Jan. 30	2016	581	23	404
Micrometer	S. Darling	287,420	Oct. 30	2075	564	25	483
Micrometer gage	G. W. Church	276,094	May 22	1936	598	23	1977
Micrometer gage	S. Darling	289,513	Dec. 4	179	50	25	918
Micrometer indicating gage	M. M. Barnes	271,401	Jan. 30	1954	565	23	393
Microscope	L. D. McIntosh	273,752	Mar. 13	661	177	23	955
Microscope	D. Tetlow	287,978	Nov. 6	237	68	25	549
Microscopes. Objective attachment in	W. H. Bulloch	287,904	Nov. 6	143	42	25	533
Microscopic illuminator	E. Bausch	277,869	May 22	1661	454	23	1931
Middlings-purifier	G. R. Cannefax	280,571	July 3	280	77	24	50
Middlings purifier	J. Harvey	285,128	Sept. 18	1198	{335 / 336}	24	1121
Middlings purifier	A. Hunter	278,142	May 22	1990	547	23	1988
Middlings purifier	J. Kuhnmünch	288,068	Nov. 6	345	96	25	566
Middlings purifier	T. H. Neander	288,844	Nov. 20	1325	363	25	753
Middlings purifier	F. Prinz	272,475	Feb. 20	1121	316	23	651
Middlings purifier	J. Russell	284,488	Sept. 4	398	111	24	971
Middlings purifier	J. R. Smith	271,932	Feb. 6	423	115	23	515
Middlings purifier	J. T. Walter	290,504	Dec. 18	1429	396	25	1154
Middlings purifier	C. Wehner	287,597	Oct. 30	2315	626	25	449
Middlings purifier	J. W. Wilson	278,207	May 22	2074	571	23	2003
Milk and cream can	G. W. Evans	274,745	Mar. 27	1928	537	23	1190
Milk and cream gage	J. M. Burnett	273,947	Mar. 13	910	248	23	997
Milk and cream transporting can	J. G. Cherry	282,844	Aug. 7	443	125	24	578
Milk can	O. M. Allaben	284,792	Sept. 11	787	219	24	1043
Milk can	D. C. Cripe	276,780	May 1	326	85	23	1668
Milk can	F. A. Hickson	280,820	July 10	601	168	24	113
Milk can	D. Wilkie and G. A. Duggan	287,205	Oct. 23	1807	496	25	347
Milk can cover	J. W. Lane	277,140	May 8	801	210	23	1769
Milk can lock	C. Graff	284,412	Sept. 4	309	86	24	956
Milk can top	G. Abbott, Jr.	288,391	Nov. 13	768	207	25	648
Milk can top	R. M. Rockey	277,613	May 15	1357	366	23	1870
Milk cooler	I. S. Brandenburg	290,519	Dec. 18	1455	402	25	1158
Milk cooler	J. S. Carter and I. C. Wightman	288,011	Nov. 6	294	80	25	556
Milk cooler	J. Delino	280,359	July 3	94	7	24	6
Milk cooler	J. W. Irish	276,590	May 1	60	17	23	1638
Milk cooler	C. L. Kneeland	288,711	Nov. 20	1162	319	25	724
Milk cooler	T. H. Mallory	290,900	Dec. 25	1944	536	25	1250
Milk cooler	A. H. Reid	283,921	Aug. 28	1752	495	24	841
Milk cooler	B. C. Richardson	286,331	Oct. 9	703	187	25	137
Milk cooler	M. O. Roberts	273,764	Mar. 13	685	184	23	959
Milk-cooler	S. J. and N. T. Wilson	273,659	Mar. 6	534	{143 / 144}	23	925
Milk cooler	D. B. Wooster	275,315	Apr. 3	552	150	23	1390
Milk cooler	D. B. Wooster	285,773	Sept. 25	1985	562	24	1269
Milk cooler and heater	H. W. Weiss	280,695	July 3	428	121	24	76
Milk for the manufacture of butter and cheese. Apparatus for the treatment of	E. R. Powell	275,264	Apr. 3	485	135	23	1308
Milk for the manufacture of butter and cheese. Treatment of	E. R. Powell	275,263	Apr. 3	483	{134 / 135}	23	1308

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Milk. Making condensed	J. W. Decastro	274,469	Mar. 27	1581	.....	23	1130
Milk or cream carrier	W. M. Haney	280,308	June 26	2081	586	23	2503
Milk-pan	S. Kingsland	286,310	Oct. 9	671	179	25	132
Milk. Preserving	E. Scherff	277,352	May 8	1044	.....	23	1812
Milk-setting apparatus	F. G. Butler. (Reissue)	10,357	July 17	1651	450	24	300
Milk-skimmer	C. C. Kribs	282,093	July 31	2215	609	24	409
Milk-skimming apparatus	J. Besley	285,958	Oct. 2	229	64	25	44
Milk-skimming device	W. Colditz	272,655	Feb. 20	1354	380	23	692
Milk-vessels. Earthenware cover for	A. W. Eddy	288,931	Nov. 20	1431	393	25	773
Milking cows. Apparatus for	J. P. Martin	289,546	Dec. 4	217	61	25	994
Milking cows. Hand device for	H. D. Thatcher and H. P. Barnhart	282,683	Aug. 7	249	72	24	543
Mill: *See* Apple-mill. Attrition-mill. Bark-mill. Cane-mill. Cider-mill. Coffee-mill. Crushing-mill. Curd-mill. Disintegrating-mill. Fanning-mill. Fulling-mill. Grain and seed cleaning mill. Grinding-mill. Grinding and decorticating mill. Grist or flouring mill. Hominy-mill. Ore-pulverizing mill. Roller-mill. Roller grain-mill. Rolling-mill. Saw-mill. Shingle-planing mill. Stamp-mill. Water-mill. Windmill.							
Mill-disk dress	L. Gathmann	274,116	Mar. 20	1125	310	23	1042
Mill machinery. Drop-lift step for	L. B. Kohnle and W. B. Hamilton	276,603	May 1	73	20	23	1640
Mill-roll feeder	T. Reid	279,982	June 26	1689	474	23	2433
Mill-rollers. Device for grinding and grooving	E. Rein	289,556	Dec. 4	231	64, 65, 66	25	927
Mill-stuff-recovering machine	D. H. Lord	277,301	May 8	984	264	23	1802
Milling and apparatus used therein	A. Mariotte	270,906	Jan. 23	1335	385, 386	23	280
Milling links for engines. Machine for	W. H. Denney	271,431	Jan. 30	1995	575, 576	23	400
Milling-machine. Multiple	W. Krutzsch	277,746	May 15	1504	408, 409	23	1897
Milling-machine. Universal	L. Cosgrove	282,704	Aug. 7	288	81	24	549
Milling-machines. Adjustable head for	A. Schurch	283,668	Aug. 21	1437	402	24	774
Millstone	J. J. Ethell	285,118	Sept. 18	1186	332	24	1121
Millstone bail and driver	J. M. Replogle	271,270	Jan. 30	1780	517	23	361
Millstone-balance	W. C. Hale	277,273	May 8	948	254	23	1796
Millstone-dress	D. D. Brooks	284,535	Sept. 4	460	130	24	982
Millstone-dress	J. C. Spindle	285,061	Sept. 18	1138	318	24	1113
Millstone-dress	L. B. Woolever	291,010	Dec. 25	2096	578	25	1274
Millstone-dressing machine	C. S. Hoover	271,849	Feb. 6	319	88	23	497
Millstone-dressing machine	C. S. Hoover	278,335	May 29	2271	621	23	2045
Millstone-dressing machine	J. T. Obenchain	282,760	Aug. 7	345	98	24	560
Millstone-dressing machine. Diamond	T. C. Barnes	286,251	Oct. 9	579	159	25	116
Millstone-driver	A. Callahan	271,034	Jan. 23	1491	430	23	305
Millstone-driver	J. F. Callahan	271,572	Jan. 30	2170	625	23	430
Millstone-driver	J. Dempster	277,688	May 15	1444	389	23	1886
Millstone-driver	G. C. Gordon	283,597	Aug. 21	1360	380	24	758
Millstone-driver	W. C. Hale	285,613	Sept. 25	1776	503	24	1234
Millstone-driver	H. Heard	269,853	Jan. 2	42	13	23	10
Millstone-driver	J. S. Park and J. W. Hackett	289,303	Nov. 27	1879	522, 523	25	803
Millstone-driver	P. Steinmetz	271,942	Feb. 6	432	118	23	516
Millstone-facing machine	J. T. Obenchain	282,761	Aug. 7	347	98	24	561
Millstone paint-staff	M. W. Leonhardt	273,555	Mar. 6	405	108	23	903
Millstone-pick	W. C. McDonnell and A. L. Anderson	280,647	July 3	371	103	24	65
Millstone-spindles. Bushing for	J. A. McAllister	290,904	Dec. 25	1947	537	25	1251
Millstone-ventilator	H. J. Nellessen	282,357	July 31	2567	703	24	467
Millstones, &c. Adjusting and supporting	G. Milbank	275,929	Apr. 17	1377	379	23	1478
Millstones. Gage for dressing and truing	H. D. Coleman	275,024	Apr. 3	191	51	23	1258
Mincing-knife	C. Gilberts	279,643	June 19	1284	357	23	2357
Mincing-knife and meat-tenderer. Combined	J. Murphy	281,200	July 10	1067	294	24	195
Mine air-regulator	J. Sawyer	283,286	Aug. 14	976	272	24	682
Mine-shaft elevator	M. S. Coleman	289,231	Nov. 27	1795	497	25	846
Miner's combination-tool	J. Jones	270,315	Jan. 9	576	169	23	123
Mines. Device for automatically opening and shutting doors in coal-	J. Case and J. A. Whitaker	282,269	July 31	2448	673	24	447
Mining apparatus. Hydraulic-	J. H. Martin	277,762	May 15	1532	416	23	1902
Mining-machine	H. Barditzky	280,781	July 10	560	157	24	106
Mining-machine	A. Brandenberger, W. Tirre, and H. Barditzky.	283,858	Aug. 28	1678	474	24	828
Mining-machine	C. W. Colvin	282,274	July 31	2452	675	24	448
Mining-machine	M. Hardsocg	282,632	Aug. 7	192	56	24	533
Mining-machine	X. Kern, Jr., and J. Hammer	291,012	Dec. 25	2099	578, 579	25	1275
Mining-machine	H. Wilverth	289,742	Dec. 4	466	131	25	968
Mining-machine	B. Yoch	286,364	Oct. 9	740	198	25	145
Mining-machine brake and truck	B. Yoch	283,943	Aug. 28	1784	504	24	848
Mining machine. Coal-	B. F. Asper	289,745	Dec. 4	469	132, 133	25	968
Mining machine. Coal-	W. Hilton	287,436	Oct. 30	2095	569, 570	25	407
Mining machine. Coal-	R. Johnson	284,560	Sept. 4	485	136, 137	24	986
Mining machine. Coal-	S. C. Lechner	287,032	Oct. 23	1586	437	25	306
Mining machine. Coal-	G. D. Whitcomb	280,544	July 3	248	67	24	45
Mining-machine. Hydraulic	J. E. Russell	273,397	Mar. 6	206	55	23	869

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mining-machine pick	G. D. Whitcomb	280,541	July 3	246	66	24	44
Mining-machine pick	G. D. Whitcomb	280,542	July 3	247	66	24	44
Mining-machine pick	G. D. Whitcomb	280,543	July 3	248	66	24	45
Mining-tool	T. A. Maves	279,962	June 26	1668	469	23	2429
Mirror	R. K. McMurray and E. M. Carey	272,297	Feb. 13	878	246	23	605
Mirror and picture support	P. Hufeland	274,773	Mar. 27	1968	548	23	1197
Mirror and picture support	P. Hufeland	274,774	Mar. 27	1969	548	23	1197
Mirror. Glass	J. M. Conroy and F. E. Youngs	290,744	Dec. 25	1754	484	25	1217
Mirror. Hand	J. Hornberger	286,699	Oct. 16	1162	312	25	286
Mirror. Hand	P. Hufeland	270,190	Jan. 2	426	123	23	87
Mirror holder for toilet-cases. Hand	A. Schulze	275,949	Apr. 17	1399	385	23	1482
Mirror. Window	P. L. Johnson	285,037	Sept. 18	1092	305	24	1105
Mirrors. Coating the backs of silvered	J. M. Conroy and F. E. Youngs	290,745	Dec. 25	1755	.....	25	1217
Mirrors. Electrically-heated	B. H. Goodsell, C. Adamson, and C. O. Hering.	281,224	July 10	1099	303	24	901
Mirrors, transoms, &c. Friction supporting device for	M. Safford	278,364	May 29	2310	631	23	2052
Miter-box	W. Wassung	286,097	Oct. 2	393	108	25	72
Miter-box and jack-board	H. W. De Courtenay	285,583	Sept. 25	1737	490	24	1227
Miter-cutting machine	D. H. Grant	290,768	Dec. 25	1781	492	25	1222
Miter-wheel guard and frame	H. Nadermann	281,289	July 17	1185	328	24	223
Mitering-machine	C. L. Dayton	270,026	Jan. 2	236	68	23	49
Mitering-machine	D. C. Rogers	272,903	Feb. 27	1689	473	23	757
Mitten	W. Carter	275,142	Apr. 3	344	95	23	1285
Mitten	I. N. Moore	290,787	Dec. 25	1801	498	25	1226
Mitten and knitting the same	W. G. McOmber	276,444	Apr. 24	2021	560	23	1597
Mitten or glove	N. B. Slayton and W. D. Wells	286,738	Oct. 16	1208	326	25	234
Mittens and gloves and method of making the same. Knit foundation for	S. M. Levy	273,111	Feb. 27	1936	542	23	800
Mixer: *See* Dough-mixer. Egg and flour mixer. Glass-batch mixer. Lemonade-mixer.							
Mixing flour, &c. Machine for	P. Thorpe	276,646	May 1	126	33, 34	23	1649
Mixing-machine	J. Burns	279,328	June 12	896	250	23	2285
Mixing meal or flour. Apparatus for	C. Le Mée	286,716	Oct. 16	1183	318	25	230
Mixing sugar, &c. Apparatus for	C. C. Miller	277,319	May 8	1005	270	23	1805
Moistening device. Automatic	E. C. McVoy	274,804	Mar. 27	2000	556	23	1203
Molasses-evaporator	J. S. Boren	277,206	May 8	874	232	23	1781
Mold: *See* Brick-mold. Burial-case mold. Butter-mold. Candle-mold. Carbonizing-mold. Casting-mold. Cupel-mold. Glass-mold. Glassware-mold. Ingot-mold. Pipe-mold. Pottery-mold. Roofing-tile mold.							
Mold	J. Harrison	277,131	May 8	792	207, 208	23	1767
Molds and cores. Compound for coating dry-sand	J. F. Richards	276,628	May 1	105	.....	23	1645
Molds for roll-pinions. Apparatus for blacking	J. C. Sims	282,676	Aug. 7	239	70	24	541
Molds. Method of and apparatus for forming	S. J. Adams	274,691	Mar. 27	1870	521, 522	23	1180
Molded and plastic ware. Manufacture of	J. F. Peacock	273,142	Feb. 27	1976	555	23	808
Molder's jointless plate	W. S. Withers	279,627	June 19	1264	350, 351	23	2353
Molding	C. F. Biele	289,606	Dec. 4	292	89	25	939
Molding	A. Lyon	280,752	July 3	504	143	24	90
Molding	A. Vogt	291,008	Dec. 25	2095	577	25	1274
Molding-flask	J. H. Bawden	280,557	July 3	262	71	24	47
Molding-machine	J. North	274,646	Mar. 27	1816	504, 505	23	1170
Molding-machine	H. Reynolds	281,926	July 24	2003	549	24	368
Molding-machine	G. Sebold	284,494	Sept. 4	405	113, 114, 115, 116	24	973
Molding-machine	J. Walker	287,983	Nov. 6	945	69, 70, 71, 72	25	550
Molding-machine for foundry use	F. Bardez	287,996	Nov. 6	965	75	25	553
Molding-machine. Power	F. S. Hawkins	270,898	Jan. 23	1325	383	23	278
Molding machine. Sand	J. Latshaw	283,905	Aug. 28	1733	489	24	837
Molding machine. Wood	W. O. Smith	289,319	Nov. 27	1896	528	25	866
Molding screw-forms in plastic material	H. Brooke	283,321	Aug. 14	1017	285	24	690
Moldings. Composition for gilt	L. Eberle	289,237	Nov. 27	1892	.....	25	847
Moldings. Machine for cutting	E. L. Gaylord	286,423	Oct. 9	809	219, 220	25	157
Moldings. Machine for making picture	C. W. Moeller and M. Schmid	285,646	Sept. 25	1812	516, 517	24	1241
Moldings. Mold for forming ornamental	L. Blohm	283,560	Aug. 21	1319	368	24	750
Moldings. Ornamenting	F. J. Newcomb	288,473	Nov. 13	871	236	25	667
Mole-trap	J. Evered	285,400	Sept. 25	1523	429	24	1157
Mole-trap	J. G. Gilleland and J. Ziegele	280,811	July 10	591	165	24	111
Mole-trap	J. G. Soners	275,280	Apr. 3	506	140	23	1312
Monalcylised hydro-bases. Producing	A. Böhringer	282,488	Aug. 7	10	.....	24	502
Money-changer. Automatic	C. B. Hopkins	288,942	Nov. 20	1441	397, 398	25	775
Money-changing cabinet	J. Lockwood and C. McIntire	288,714	Nov. 20	1165	320	25	734
Money-strip. Gummed	Z. G. Wilson	271,964	Feb. 6	457	125	23	521
Monkey-wrench	F. H. Seymour	273,170	Feb. 27	2007	564	23	813
Monkey-wrench	R. H. Seymour	273,899	Mar. 13	850	230	23	987
Monkey-wrenches. Blank for	M. E. Campfield	285,796	Oct. 2	18	6	25	5
Monthly-protector	G. Campbell	276,770	May 1	314	82	23	1660
Monument	G. W. Bush and H. H. Wilzin	275,464	Apr. 10	784	210	23	1308

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Monument	C. J. Heidmeyer	271,453	Jan. 30	2022	584	23	405
Mop and wringer. Combined	W. Malick	290,187	Dec. 11	999	282	25	1071
Mop-head	A. Titus	275,294	Apr. 3	524	143	23	1315
Mop-holder	W. H. Bowen	285,003	Sept. 18	1046	293	24	1097
Mop-holder	F. W. Burns and W. Malick	270,930	Jan. 23	1366	394	23	285
Mop-holder	J. K. Johnson	285,039	Sept. 18	1094	305	24	1106
Mop-holder	J. T. B. Lee	283,121	Aug. 14	773	217	24	645
Mop-wringer	J. McCarthy	283,911	Aug. 28	1740	491	24	839
Mordant	C. N. Waite	290,294	Dec. 18	1144	.....	25	1104
Mordant for aniline black	A. N. Dubois	287,112	Oct. 23	1690	.....	25	327
Mortar and building composition	J. A. Shinn	280,679	July 3	408	.....	24	73
Mortar-tub	J. P. and D. J. Thomas	280,415	July 3	93	25	24	19
Mortising-machine	H. Feyh	281,855	July 24	1917	524	24	353
Mortising-machine	R. S. Greenlee	283,341	Aug. 14	1044	294	24	695
Mortising-machine	I. W. Johnson	286,016	Oct. 2	290	81	25	54
Mortising-machine	L. O. Orton and L. H. Berry	280,326	June 26	2105	591	23	2507
Mortising metals. Tool for	T. Ryan	280,866	July 10	656	185	24	122
Mortising-tool	C. H. Pettit	278,177	May 22	2032	558	23	1995
Mosquito-bar frame	G. L. Williams	286,665	Oct. 16	1113	300	25	218
Mosquito-guard	W. H. Harvey	281,502	July 17	1455	399	24	269
Mosquitoes. Apparatus for killing	I. Elkins	286,407	Oct. 9	791	213	25	154
Moss-bark Coating articles in imitation of	O. Speisser	284,771	Sept. 11	758	211	24	1039
Moth-proof receptacle	G. L. and E. G. H. Cooper	286,179	Oct. 9	490	135	25	102
Moth trap and tree-protector. Coddling	G. W. Thissell	275,093	Apr. 3	281	77	23	1274
Motion. Apparatus for starting, stopping, and reversing rotary	F. Reuleaux	271,987	Feb. 6	495	133	23	526
Motion. Apparatus for starting, stopping, and reversing rotary	F. Reuleaux	272,325	Feb. 13	913	255	23	611
Motion. Apparatus for transmitting differential rotary	G. F. Clemons	276,776	May 1	321	83, 84	23	1681
Motion-converting mechanism	E. Butler	285,223	Sept. 18	1308	368	24	1143
Motion. Device for converting	G. J. Altham	273,699	Mar. 13	592	159	23	943
Motion. Device for converting	A. M. Babcock	285,372	Sept. 25	1486	419	24	1181
Motion. Device for converting	S. O. Campbell	279,513	June 12	1131	313	23	2322
Motion. Device for converting	C. W. Colony	289,622	Dec. 4	308	86	25	942
Motion. Device for converting	C. H. Ercanbrack	286,596	Oct. 16	1027	278	25	203
Motion. Device for converting	A. Elson and F. M. Crockett	278,899	June 5	303	88	23	2175
Motion. Device for converting	A. Gould	276,028	Apr. 17	1497	412	23	1498
Motion. Device for converting	C. A. Hodge	282,727	Aug. 7	313	89	24	554
Motion. Device for converting	W. T. Kellogg	279,651	June 19	1295	360	23	2358
Motion. Device for converting	R. G. Moody	287,307	Oct. 23	1935	529	25	370
Motion. Device for converting	J. S. Parmenter	271,909	Feb. 6	392	108	23	510
Motion. Device for converting	G. W. Richardson	288,739	Nov. 20	1202	329	25	730
Motion. Device for converting	J. R. Ricketts	277,345	May 8	1035	278	23	1811
Motion. Device for converting	M. A. Sayles	271,132	Jan. 23	1609	462	23	324
Motion. Device for converting	F. M. Stevens	285,083	Sept. 18	1140	{318 / 319}	24	1113
Motion. Device for converting	F. Zassenhaus	284,530	Sept. 4	453	128	24	981
Motion. Device for transmitting	J. W. See	280,247	June 26	2004	564	23	2489
Motion. Engine for converting	F. W. Link	273,557	Mar. 6	407	{109 / 110}	23	904
Motion. Machinery for converting	J. C. Tauber	275,436	Apr. 10	753	201	23	1363
Motion. Mechanical device for changing reciprocating to rotary	A. Trousdale	272,602	Feb. 20	1285	358	23	679
Motion. Mechanism for converting	J. D. Clarke	271,421	Jan. 30	1977	571	23	397
Motion. Mechanism for converting	F. H. Cross	281,347	July 17	1260	350	24	236
Motion. Mechanism for converting	F. S. Gable	290,566	Dec. 18	1519	418	25	1169
Motion. Mechanism for converting	L. B. Miller	274,094	Mar. 13	1086	299	23	1028
Motion. Mechanism for converting	E. S. Plimpton	274,374	Mar. 20	1454	398	23	1100
Motion. Mechanism for converting	F. H. Richards	286,225	Oct. 9	541	149	25	110
Motion. Mechanism for converting	T. Wilson	276,206	Apr. 24	1717	475	23	1545
Motion. Mechanism for transmitting	E. P. Needham	274,812	Mar. 27	2010	560	23	1204
Motion. Substitute for crank	E. Burke	275,988	Apr. 17	1448	399	23	1491
Motion. Substitute for crank	E. Burke	286,900	Oct. 16	1412	388	25	269
Motion. Transmitting	L. D. Goodwin	273,982	Mar. 13	946	260	23	1004
Motion. Transmitting reciprocal to rotary	D. J. Ames	285,943	Oct. 2	212	60	25	40
Motive power	H. Blake	283,063	Aug. 14	704	197	24	632
Motive power	J. Harris	270,796	Jan. 16	1198	346	23	249
Motive power	L. Seebach and J. Bettschen	281,929	July 24	2008	550	24	369
Motive power. Hand	W. H. S. Burguyn	276,665	May 1	155	40	23	1652
Motive power. Means or apparatus for obtaining	J. E. Barry	274,256	Mar. 20	1303	{358 / 359}	23	1074
Motive power. Obtaining	T. M. Fell	287,917	Nov. 6	160	46, 47	25	535
Motor: *See* Air-motor. Car-motor. Churn-motor. Cradle-motor. Current-motor. Electric motor. Electro-magnetic motor. Fluid-motor. Gas-motor. Hydraulic motor. Mechanical motor. Oscillating motor. Power-motor. Rotary motor. Sewing-machine motor. Spring-motor. Water-motor. Weight-motor. Wind-motor. Windmill-motor.							
Motor	D. L. Croft	283,757	Aug. 28	1565	441	24	808
Motor	G. E. Danlies	280,297	June 26	2068	{581 / 582}	23	2501
Motor	C. De Mézerville	289,899	Dec. 11	661	185	25	1009
Motor	J. S. Fletcher	277,893	May 22	1689	461	23	1936
Motor	J. R. Ford	281,858	July 24	1921	525	24	353
Motor	H. W. Gurney	272,429	Feb. 20	1067	300	23	641
Motor	D. Hansz	277,717	May 15	1475	399	23	1891
Motor	J. B. Hunter	286,702	Oct. 16	1164	313	25	226

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Motor	A. Lance and M. Yolton	274,203	Mar. 20	1226	337	23	1060
Motor	T. Poore	282,564	Aug. 7	110	33	24	519
Motor	M. L. Rison	287,777	Oct. 30	2557	688	25	495
Motor	S. N. Silver	281,571	July 17	1535	421	24	281
Motor	W. H. Swartout	272,349	Feb. 13	942	261	23	615
Motor	S. H. Watkins	287,893	Nov. 6	130	38	25	530
Motor for light machinery	B. A. Wilton	276,518	Apr. 24	2112	587	23	1612
Mouse-trap	T. Crooke	270,753	Jan. 16	1154	330	23	240
Mouse-trap	J. C. Gould	280,369	July 3	37	10	24	9
Moving earth and excavated material. Mechanism for	H. A. Carson	282,163	July 31	2314	635	24	424
Mower	W. W. Ball	279,074	June 5	565	155	23	2220
Mower and reaper	H. A. Hyle	273,994	Mar. 13	959	264, 265	23	1006
Mower and reaper cutter-bar	C. H. Myers	285,361	Sept. 18	1467	413	24	1171
Mower and reaper knives. Holder for	J. R. Hamilton	270,790	Jan. 16	1194	345	23	248
Mower and reaper knives. Machine for grinding	J. N. Parker	287,854	Nov. 6	74	22 23	25	590
Mower and reaper knives. Machine for sharpening	P. Straith	270,858	Jan. 16	1269	366	23	263
Mower and tedder. Combined	J. M. Burdick	285,792	Oct. 2	14	5	25	5
Mower handle. Lawn-	T. Johnston	271,471	Jan. 30	2051	591	23	410
Mower. Lawn-	J. J. Berrigan	273,705	Mar. 13	598	161	23	944
Mower. Lawn-	T. and W. H. Coldwell	273,469	Mar. 6	297	81	23	884
Mower. Lawn-	J. W. Hobson	275,338	Apr. 3	596	160	23	1327
Mower. Lawn-	A. J. Whitcomb	274,239	Mar. 20	1283	353	23	1071
Mower. Lawn and field	H. D. Martin	270,090	Jan. 2	303	90	23	62
Mowers and reapers. Adjustable holder for the sickle-bars of	G. W. Freeman	273,504	Mar. 6	332	90	23	891
Mowing and reaping machine	I. Branch	279,077	June 5	569	156	23	2221
Mowing and reaping machine	L. M. Hawes	281,872	July 24	1937	530	24	356
Mowing and reaping machine	S. Tilley and J. M. Sanford	269,899	Jan. 2	93	27	23	20
Mowing and reaping machine finger-bar	J. F. Miller	282,749	Aug. 7	333	95	24	558
Mowing and reaping machine sickle-eye	L. Hoffman	274,942	Apr. 3	76	20	23	1238
Mowing-machine	F. Bramer	277,964	May 22	1795	489, 490	23	1954
Mowing-machine	C. W. Cheney	278,508	May 29	2482	677, 678	23	2062
Mowing-machine	R. Dutton	271,819	Feb. 6	284	78	23	491
Mowing-machine	J. H. Elward	279,926	June 26	1620	455	23	2421
Mowing-machine	G. W. Keeler	284,435	Sept. 4	336	93	24	960
Mowing-machine	R. A. Leonard	274,793	Mar. 27	1969	553	23	1900
Mowing-machine	R. A. Leonard	275,227	Apr. 3	443	123	23	1302
Mowing-machine	N. C. Lewis	270,231	Jan. 9	481	142	23	104
Mowing-machine knives. Machine for sharpening	R. R. Isaac	290,236	Dec. 18	1070	299	25	1092
Mucilage-wafer	J. I. Donahue	276,164	Apr. 24	1668	460	23	1536
Muff	H. A. Farnsworth	275,373	Apr. 10	665	177	23	1348
Muff	H. Ganss	272,380	Feb. 13	993	277	23	624
Muff	M. Smith	282,391	July 31	2605	715	24	475
Mug. Beer-	J. E. Jeffords	272,261	Feb. 13	840	234	23	598
Mule. Self-acting	E. A. Baldwin	272,401	Feb. 20	1027	287, 288	23	635
Music-box	W. N. Weeden	283,307	Aug. 14	1000	280	24	686
Music-cabinet	D. Schuyler	289,569	Dec. 4	248	70	25	931
Music-cabinet	D. Schuyler	289,570	Dec. 4	250	70	25	931
Music dealer's furnishing-case	C. Spray	285,317	Sept. 18	1414	400	24	1163
Music-holder	W. R. Hoffmann	289,658	Dec. 4	356	100	25	950
Music-leaf holder	E. B. Phelps	275,696	Apr. 10	1078	294	23	1419
Music-leaf holder	W. G. Seely	274,037	Mar. 13	1009	277	23	1015
Music-leaf turner	W. J. Arnold	288,966	Nov. 27	1477	409	25	789
Music-leaf turner	J. I. Barnum	272,938	Feb. 27	1728	482, 483	23	763
Music-leaf turner	A. T. and D. T. Fox	279,737	June 19	1393	389	23	2375
Music-leaf turner	W. H. Geisler	273,062	Feb. 27	1869	525	23	789
Music-leaf turner	O. S. Hall	286,297	Oct. 9	658	175	25	199
Music-leaf turner	C. Onslow	282,110	July 31	2238	616	24	413
Music-paper for automatic musical instruments. Machine for perforating	R. T. Smith	287,062	Oct. 23	1623	447	25	313
Music-roll	H. Schmoele	272,090	Feb. 13	699	171	23	569
Music-sheet for mechanical musical instruments	J. Bailey	286,108	Oct. 2	405	111	25	75
Music-stand	R. C. Barrie	274,166	Mar. 20	1188	327	23	1053
Music-stand for organs, &c	P. Mabille	270,234	Jan. 9	485	143	23	105
Musical instrument and stool. Combined	H. Jaeschke	270,075	Jan. 2	289	85, 86	23	59
Musical instrument. Automatic	J. McTammany, Jr	290,697	Dec. 25	1682	463, 464	25	1203
Musical-instrument case	H. Distin	286,399	Oct. 9	782	211	25	152
Musical-instrument finger-board	C. Van Haagen	281,584	July 17	1552	425	24	284
Musical-instrument key	W. H. Laughlin	274,504	Mar. 27	1646	458	23	1140
Musical-instrument key-board	M. H. McChesney	281,698	July 24	1972	540	24	362
Musical-instrument key-board attachment	J. M. Hooper	290,430	Dec. 18	1332	369	25	1136
Musical instrument. Mechanical	O. H. Arno. (Reissue)	10,279	Jan. 30	2186	628, 629	23	433
Musical instrument. Mechanical	E. H. Brown	278,771	June 5	116	33	23	2143
Musical instrument. Mechanical	A. Durkee	282,179	July 31	2345	646	24	428
Musical instrument. Mechanical	P. Ehrlich	290,672	Dec. 25	1650	454	25	1198
Musical instrument. Mechanical	M. Gally	279,933	June 26	1633	458, 459	23	2423
Musical instrument. Mechanical	M. Gally	282,877	Aug. 7	483	136	24	586
Musical instrument. Mechanical	A. H. Hammond	277,129	May 8	787	206, 207	23	1766
Musical instrument. Mechanical	A. H. Hammond	284,844	Sept. 11	844	237	24	1054
Musical instrument. Mechanical	J. Lacape	272,269	Feb. 13	849	236, 237	23	600
Musical instrument. Mechanical	N. R. Marshman	277,309	May 8	995	267	23	1804
Musical instrument. Mechanical	J. McTammany, Jr	273,190	Feb. 27	1944	545, 546	23	862

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Musical instrument. Mechanical	J. McTammany, Jr	273,870	Mar. 13	818	221, 222	23	982
Musical instrument. Mechanical	J. McTammany, Jr	284,315	Sept. 4	193	54, 55	24	937
Musical instrument. Mechanical	J. Metzger	270,686	Jan. 16	1068	306	23	224
Musical instrument. Mechanical	R. W. Pain	270,606	Jan. 16	966	279	23	206
Musical instrument. Mechanical	E. Wolte	287,599	Oct. 30	2318	627	25	450
Musical instrument. Mechanical	O. Zabekow	290,726	Dec. 25	1727	477	25	1213
Musical-instrument pedal	H. Haas	290,043	Dec. 11	836	236	25	1040
Musical-instrument reed	M. Bray and G. W. McClintock	280,789	July 10	570	159	24	107
Musical-instrument sound-board	O. H. Needham	274,813	Mar. 27	2012	560	23	1204
Musical instruments. Covering key-boards of	S. J. Hoggson and G. C. Pettis	274,328	Mar. 20	1397	383	23	1089
Musical instruments. Harmonic coupler for	L. K. Fuller	290,984	Dec. 25	2065	568	25	1269
Musical instruments. Key-board attachment for	S. Jenkins	280,043	June 26	1772	498	23	2447
Musical instruments. Key-board attachment for	J. Schwertner	277,067	May 8	705	183	23	1753
Musical instruments. Manufacture of	H. Distin	286,398	Oct. 9	781	211	25	152
Musical instruments. Mechanical key-board attachment for	W. Thorpe	281,947	July 24	2029	555	24	373
Musical instruments. Mute for wind	A. P. Tyler	285,183	Sept. 18	1267	355	24	1135
Musical instruments. Transposing key-board for	W. J. Guernsey	276,682	May 1	192	49	23	1657
Musical instruments. Winding-roller for	A. H. Hammond	271,064	Jan. 23	1529	442	23	311
Mustache-holder	J. A. Moore	278,999	June 5	468	128	23	2203
Mustache-protector	J. H. Betts	276,214	Apr. 24	1725	478	23	1546
Muzzle	J. D. Crockett	272,214	Feb. 13	778	215, 216	23	586
Nail: *See* Fence-nail. Wire nail. Furniture-nail.							
Nail	W. Z. Bean	282,603	Aug. 7	154	47	24	528
Nail	H. S. Cushman	280,801	July 10	582	162	24	109
Nail	W. G. Howell	271,983	Feb. 6	490	132	23	595
Nail	J. H. Hughen	269,859	Jan. 2	47	15	23	12
Nail	G. H. Perkins	273,385	Mar. 6	193	52	23	867
Nail-cutting die	H. D. Cowles	288,165	Nov. 6	457	128	25	587
Nail-cutting machine	W. Wickersham	269,904	Jan. 2	96	29	23	90
Nail-driver's harness and lath-holder	S. Perry	285,510	Sept. 25	1650	464	24	1210
Nail-driving machine	E. Merritt	278,252	May 22	2130	587	23	2012
Nail-driving machine	E. Merritt	279,579	June 19	1212	335	23	2343
Nail-driving machine. Portable	S. Perry	279,427	June 12	1025	295, 296	23	2306
Nail-extractor	G. W. Lewis	270,085	Jan. 2	299	89	23	61
Nail-feeder and nailing-machine	J. J. Sullivan	289,360	Nov. 27	1949	541, 542	25	875
Nail-machine cutter	W. Wickersham	287,600	Oct. 30	2319	627	25	450
Nail or spike	W. Taylor	272,600	Feb. 20	1284	357	23	679
Nail-plate feeder	J. H. Dunbar	286,121	Oct. 2	417	114	25	77
Nail-plate feeder	J. H. Dunbar	287,368	Oct. 23	2008	546	25	383
Nail-plate feeder	J. F. Hammond	278,943	June 5	403	111	23	2192
Nail-plate feeder. Automatic	W. Brown	277,215	May 8	883	234, 235	23	1783
Nail-plate feeders. Feeding attachment for	S. S. Dean	288,992	Nov. 27	1495	414	25	792
Nail-puller	M. D. Edgerton	283,223	Aug. 14	895	249	24	667
Nail, tack, and rivet plates. Machine for cutting	H. R. Packard and W. H. Wilber	277,923	May 22	1719	469, 470	23	1941
Nail trimming and polishing device	G. N. Stanton	282,793	Aug. 7	383	108	24	567
Nails. Implement for feeding	S. Perry	285,667	Sept. 25	1835	524	24	1245
Nails in serial order. Device for arranging	S. Perry	282,666	Aug. 7	228	66	24	539
Nails. Machine for driving headless	F. M. Carter	270,280	Jan. 9	534	157, 158	23	114
Nails. Machine for making shoe and upholsterers'	R. Egli	280,458	July 3	152	41, 42	24	28
Nails. Machine for making wire	W. Taylor	273,190	Feb. 27	2027	570, 571	23	817
Nails. Making brass-headed	C. H. Yarington	272,010	Feb. 6	520	140	23	530
Nails. Manufacture of	W. W. Titzell	288,958	Nov. 20	1464	404	25	779
Nails. Manufacture of steel	J. T. Torrence	288,138	Nov. 6	426	.....	25	582
Nailing-machine	W. Z. Bean	282,602	Aug. 7	152	46, 47	24	527
Nailing-machine	A. Eppler, Jr	283,228	Aug. 14	899	251, 252	24	667
Nailing-machine	L. Goddu	288,421	Nov. 13	803	218	25	656
Nailing-machine	L. Goddu	288,422	Nov. 13	805	218	25	656
Nailing-machine	L. Goddu	288,423	Nov. 13	806	218	25	656
Nailing-machine	L. Goddu	288,424	Nov. 13	807	219	25	656
Nailing-machine	L. Goddu	288,425	Nov. 13	809	219	25	657
Nailing-machine	W. P. Hopkins	289,103	Nov. 27	1645	455	25	818
Nailing-machine	A. Knowlton	280,190	June 26	1928	542	23	2476
Nailing-machine	R. W. Tavener	290,493	Dec. 18	1414	390	25	1151
Nailing-machine	H. Weeks	280,267	June 26	2027	570	23	2493
Nailing-machine feeder	T. L. Smith and W. S. Doig	276,639	May 1	117	31, 32	23	1647
Naphtha-engine	F. W. Ofeldt	279,270	June 12	815	225, 226	23	2272
Naphtha from oil. Process of and apparatus for separating	J. W. Evans	281,039	July 10	863	240	24	160
Napkin-holder	C. S. Dikeman	282,286	July 31	2462	678	24	450
Napkin-holder	A. H. Meisenbach	280,058	June 26	1786	501	23	2450
Napkin-ring	F. W. Smith	275,723	Apr. 10	1114	305	23	1424
Napkin-ring and menu-holder	F. Ratcliff	279,805	June 19	1467	411	23	2388
Nautical signal	M. D. Porter	285,841	Oct. 2	71	21, 22	25	15
Nautical signal	M. White	284,522	Sept. 4	444	126	24	980
Neck-bow fastener	W. D. Slocum	277,362	May 8	1055	284	23	1814
Neck-wear	C. C. Hancock	284,736	Sept. 11	713	200	24	1031
Neck-wear hook	W. W. Fichtenberg	274,924	Apr. 3	47	12	23	1233
Neck-wear shield	D. E. Mayer	272,731	Feb. 20	1447	405	23	708
Neck-wear shields. Pin-holder for	W. Fichtenberg	287,652	Oct. 30	2386	644	25	463
Neck-wear. Spring clasping-loop for	W. H. Rose	283,284	Aug. 14	974	272	24	681
Necktie	W. C. Cross	288,192	Nov. 6	491	137	25	593

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Necktie	W. C. Cross	288,561	Nov. 13	971	287	25	685
Necktie and collar stay	J. G. Minnich, Jr	287,043	Oct. 23	1600	440	25	309
Necktie-fastener	N. H. Baldwin	270,173	Jan. 2	407	118	23	83
Necktie-fastener	W. A. Bates	275,878	Apr. 17	1324	364	23	1468
Necktie-fastener	E. T. M. Boenke	282,153	July 31	2304	632	24	423
Necktie-fastener	G. W. Bowers	279,697	June 19	1350	376	23	2367
Necktie-fastener	J. D. Brant, Jr	282,952	Aug. 14	567	160	24	608
Necktie-fastener	J. W. Dimock	278,690	June 5	20	6	23	2128
Necktie-fastener	L. C. F. Frees	282,976	Aug. 14	590	167	24	612
Necktie-fastener	B. J. Horton	283,889	Aug. 28	1714	483	24	834
Necktie-fastener	F. C. C. Kahler	287,442	Oct. 30	2102	571	25	408
Necktie-fastener	R. E. Kelsey	278,342	May 29	2281	623	23	2047
Necktie-fastener	J. F. Potter	288,735	Nov. 20	1199	328	25	730
Necktie-fastener	O. J. Teriault	289,175	Nov. 27	1724	481	25	832
Necktie-fastening	F. L. Garrigues	287,119	Oct. 23	1697	464	25	328
Necktie-holder	W. A. Keys and J. Lockwood	277,905	May 22	1701	464	23	1939
Necktie-holder	D. E. Ladd	281,703	July 24	1718	467	24	318
Necktie-holder	W. Rickards	274,827	Mar. 27	2026	564	23	1207
Necktie-holder	E. R. Seabury	280,246	June 26	2004	563	23	2489
Necktie-holder	E. B. Warner	280,694	July 3	427	121	24	76
Necktie or cravat holder	A. I. Burton	278,871	June 5	271	78	23	2169
Necktie or scarf fastener	C. H. Crossette	277,465	May 15	1181	317	23	1842
Necktie or scarf holder	J. E. Vanderbilt	287,594	Oct. 30	2311	625	25	449
Necktie-retainer	W. E. De Groff	288,695	Nov. 20	1143	314	25	721
Necktie-support	B. B. Scully	272,337	Feb. 13	930	258	23	613
Neckties. Device for attaching	W. L. Linder	289,670	Dec. 4	368	104	25	952
Neckties to collars. Device for attaching	G. F. Abbott	275,876	Apr. 17	1323	364	23	1468
Needle and cutter for sewing boned hams. Combined	J. H. Rathmann	273,153	Feb. 27	1987	559	23	810
Needle-blanks. Machine for feeding	J. Berry	281,961	July 24	2050	561, 562	24	375
Needle-blanks. Machine for swaging	I. T. Smith	280,622	July 3	410	115	24	73
Needle-eyes. Machine for polishing	P. M. Beers	278,854	June 5	248	72	23	2165
Needle for fancy work	J. S. Blinn	279,693	June 19	1345	374	23	2366
Needle-grooving machine	J. Berry	275,750	Apr. 10	1147	314, 315	23	1430
Needle-machine	F. W. Mallett	275,782	Apr. 10	1192	327	23	1438
Needle. Sewing-	J. F. Rusling and E. E. Odell	278,450	May 29	2425	661	23	2072
Needle-threading device	J. Darling	275,157	Apr. 3	361	99	23	1389
Needles while grinding them. Clamp for holding and rotating	J. Berry	279,075	June 5	565	155, 156	23	2220
Nest-egg. Medicated artificial	C. B. Wainwright	275,297	Apr. 3	530	144	23	1316
Nest. Hen's	B. J. Downing	271,318	Jan. 30	1843	535	23	372
Nest. Hen's	J. O. Sook	275,088	Apr. 3	274	75	23	1273
Net. Fish-	J. N. Dodge	270,641	Jan. 16	1006	290	23	213
Net. Fly-	T. Gingras	285,036	Sept. 18	1078	301	24	1103
Net. Fly-	A. C. Smith	289,038	Nov. 27	1368	432	25	804
Net for horses. Fly-	W. Fegley	270,040	Jan. 2	251	73	23	51
Net frame. Hand-	R. H. Hosea	273,279	Mar. 6	40	13	23	841
Net frame. Horse-fly-	W. H. Osmer	275,071	Apr. 3	250	69	23	1269
Net. Horse head-	L. B. and G. W. Lee	284,445	Sept. 4	347	96	24	962
Net. Landing-	O. M. Muncaster	272,305	Feb. 13	885	248	23	607
Net. Landing-	R. J. Welles	273,651	Mar. 6	526	141	23	924
Netting	W. H. Boyd	287,616	Oct. 30	2346	633	25	455
Newspaper stand and rack	R. Pelz	276,277	Apr. 24	1802	502	23	1559
Newspaper-wrapper	G. Fay	278,923	June 5	384	105	23	2188
Newspaper wrapping, addressing, and sorting machine	B. W. Tomlinson and A. Balch	272,355	Feb. 13	952	265, 266	23	616
Newspaper wrapping and addressing machine	H. Swain	274,529	Mar. 27	1680	466, 467	23	1145
Newspapers. Machine for sealing	J. H. Woodard	285,337	Sept. 18	1434	405	24	1166
Newspapers. Seal for	J. H. Woodard	285,370	Sept. 18	1480	417	24	1173
Nickel from ores. Extracting	J. P. Prat and J. P. Laroche	276,074	Apr. 17	1547	.....	23	1508
Nippers	G. W. Hubbard	287,437	Oct. 30	2097	570	25	407
Nippers. Cutting-	J. Stevens	287,589	Oct. 30	2303	623	25	448
Nippers. Cutting-	H. B. Todd	285,446	Sept. 25	1578	444	24	1196
Nippers for pile-drivers	S. Hadlock	274,189	Mar. 20	1211	333	23	1058
Nippers. Police-	J. J. Tower	276,307	Apr. 24	1842	512	23	1566
Non-conducting compound	J. M. Hammill	286,922	Oct. 16	1437	395	25	274
Nozzle. Exhaust-	H. N. Wickersham and W. Huston	285,192	Sept. 18	1275	358	24	1137
Nozzle for fire-engines, &c	C. Oyston	280,759	July 3	518	145	24	92
Numbering-machine. Automatic	N. F. Olson	283,016	Aug. 14	649	183, 184	24	622
Numbering-machine. Automatic	C. L. Ware	276,986	May 1	588	154	23	1727
Numeral-frame	R. T. Martin	279,263	June 12	867	223	23	2271
Nursery-chair	J. W. Kenna	283,405	Aug. 21	1133	320	24	717
Nursery-chair	E. T. Reed	284,671	Sept. 11	629	178	24	1016
Nut and bolt	H. A. Harvey	273,731	Mar. 13	637	169, 170	23	951
Nut and lock for the same	W. V. R. and D. F. Blighton	275,570	Apr. 10	920	249	23	1391
Nut and pipe wrench. Combined	J. G. Moomy	288,095	Nov. 6	381	108	25	573
Nut-arbor	P. Duffy	278,896	June 5	299	87	23	2174
Nut. Capped screw-	A. Searls	276,482	Apr. 24	2068	574	23	1605
Nut-fastener	W. Dunn	270,877	Jan. 16	1292	373	23	267
Nut-lock	J. Q. Adams	277,866	May 22	1659	453	23	1931
Nut-lock	M. M. Beeman	270,372	Jan. 9	657	192	23	138
Nut-lock	T. Bell	284,366	Sept. 4	252	70	24	947
Nut-lock	H. C. Bender	289,494	Dec. 4	155	42	25	913
Nut-lock	W. V. R. Blighton	287,796	Nov. 6	10	3	25	509
Nut-lock	J. N. Bradford	271,026	Jan. 23	1483	427	23	304
Nut-lock	F. C. Brauchler	280,125	June 26	1860	524	23	2464
Nut-lock	G. Cade	271,414	Jan. 30	1970	569	23	396
Nut-lock	F. H. Cranford	287,003	Oct. 23	1547	426	25	298
Nut-lock	A. J. Danner	274,285	Mar. 20	1339	368	23	1080
Nut-lock	W. M. Eccles	276,527	Apr. 24	2127	592	23	1614

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Nut-lock	W. B. Eltonhead	285,399	Sept. 25	1522	429	24	1187
Nut-lock	C. C. Fairlamb	278,230	May 22	2104	579	23	2008
Nut-lock	E. F. Fisher	283,092	Aug. 14	736	206	24	638
Nut-lock	H. Fletter	277,474	May 15	1191	330	23	1844
Nut-lock	J. Ford	275,898	Apr. 17	1345	370	23	1472
Nut-lock	J. A. Fulwiler	290,028	Dec. 11	816	230	25	1037
Nut-lock	F. Getz	275,188	Apr. 3	395	109	23	1295
Nut-lock	J. E. Gibson	290,638	Dec. 18	1606	441	25	1183
Nut-lock	J. Gilgour	277,706	May 15	1463	394	23	1889
Nut-lock	S. Gissinger	285,122	Sept. 18	1189	333	24	1122
Nut-lock	J. B. and H. Greenhalgh	281,055	July 10	882	245	24	163
Nut-lock	S. D. Groves	274,188	Mar. 20	1210	333	23	1058
Nut-lock	I. Q. Holmes	284,013	Aug. 28	1893	530	24	866
Nut-lock	W. M. Irvine and J. J. Waddill	277,735	May 15	1494	405	23	1895
Nut-lock	H. Libby	276,252	Apr. 24	1770	493	23	1554
Nut-lock	A. B. Lipsey	278,248	May 22	2125	585	23	2011
Nut-lock	G. P. Loomis	281,196	July 10	1063	293	24	195
Nut-lock	J. M. Mack	272,565	Feb. 20	1245	347	23	672
Nut-lock	W. J. McTighe	282,348	July 31	2555	699	24	465
Nut-lock	M. W. Meagher and J. C. Anderson	278,032	May 22	1856	507	23	1965
Nut-lock	C. W. Meason	273,871	Mar. 13	821	222	23	982
Nut-lock	B. G. Miller	287,041	Oct. 23	1598	440	25	308
Nut-lock	G. I. P. Mlinarich	277,709	May 15	1542	419	23	1904
Nut-lock	J. Moored	272,971	Feb. 27	1762	493	23	769
Nut-lock	M. Moran	279,000	June 5	469	129	23	2203
Nut-lock	M. J. Nerney	290,790	Dec. 25	1803	499	25	1226
Nut-lock	T. M. O'Malley	290,916	Dec. 25	1961	542	25	1253
Nut-lock	E. Odell	283,505	Aug. 21	1258	353	24	739
Nut-lock	G. Paist	290,990	Dec. 25	2084	574	25	1272
Nut-lock	J. S. Pardee and A. Morley	283,506	Aug. 21	1259	353	24	739
Nut-lock	J. Parr	282,114	July 31	2255	619	24	415
Nut-lock	J. F. Penrod	276,872	May 1	435	116	23	1703
Nut-lock	J. M. Perry	277,336	May 8	1026	275	23	1809
Nut-lock	I. P. Pillsbury	274,025	Mar. 13	997	273	23	1013
Nut-lock	C. H. Preston	279,182	June 12	718	196	23	2256
Nut-lock	E. P. Price	270,119	Jan. 2	334	98	23	68.
Nut-lock	J. H. Ransom, Jr	275,705	Apr. 10	1068	297	23	1420
Nut-lock	A. Reeso	287,390	Oct. 23	2034	552	25	388
Nut-lock	W. H. Repass	270,124	Jan. 2	342	100	23	70
Nut-lock	F. Robbins	282,927	Aug. 7	533	151	24	595
Nut-lock	E. E. Ross	286,849	Oct. 16	1347	369	25	259
Nut-lock	D. S. Schureman and W. McCulloch	282,572	Aug. 7	119	35	24	521
Nut-lock	H. Schwarzwalder	288,263	Nov. 13	592	162	25	619
Nut-lock	S. Shaw	290,712	Dec. 25	1711	471	25	1209
Nut-lock	J. H. Sheehan	282,383	July 31	2595	713	24	473
Nut-lock	J. W. Steele	286,498	Oct. 9	894	241	25	173
Nut-lock	W. P. Tracy	280,690	July 3	422	119	24	75
Nut-lock	M. Turley	282,688	Aug. 7	258	74	24	544
Nut-lock	J. J. Waddill	271,955	Feb. 6	447	122	23	519
Nut-lock	T. Weaver	275,001	Apr. 3	147	41, 42	23	1251
Nut-lock	J. Wilkes	279,299	June 12	853	236	23	2278
Nut-lock for rail-joints	J. L. Clingman	273,029	Feb. 27	1834	513	23	783
Nut-locks, &c. Machine for making	H. W. Armstrong	274,251	Mar. 20	1295	357	23	1072
Nut-locking device	J. S. Poironnet	283,275	Aug. 14	964	269	24	679
Nut-separator	J. H. Dolman	271,815	Feb. 6	279	77	23	490
Nut-tapping machine	L. Bartlett	283,745	Aug. 28	1545	437	24	805
Nut-tapping machine	G. H. Webb	284,695	Sept. 11	661	186	24	1022
Nut-tapping machine. Automatic	H. A. Harvey	272,877	Feb. 27	1653	462, 463	23	752
Nut. Top-prop	S. Moore	277,596	May 15	1338	360	23	1866
Nut. Top-prop	A. Searls	272,589	Feb. 20	1268	353	23	676
Nut. Top-prop	H. Smith	272,594	Feb. 20	1275	355	23	678
Nut trimming and chamfering mechanism	G. H. Webb	285,447	Sept. 25	1579	444	24	1196
Nuts. Bleaching edible	F. M. Ironmonger	275,217	Apr. 3	432	.....	23	1300
Nuts. Machine for punching and forming	W. H. Paige	272,083	Feb. 13	621	168	23	559
Nuts on bolts. Machine for putting	W. E. and D. E. Doolittle	280,298	June 26	2070	582, 583	23	2501
Nuts. Process of and apparatus for cleaning, tinting, and polishing pecan and other	R. C. Koerber	287,690	Oct. 30	2435	655	25	473
Oar	M. F. Davis	282,856	Aug. 7	457	130	24	581
Oar and oar-lock	S. S. Hazeland	281,873	July 24	1939	530	24	357
Oar for ice-boats	W. J. Henley and S. T. Axtell	288,801	Nov. 20	1275	349	25	744
Oar-lock	E. B. Beach	277,662	May 15	1414	382	23	1881
Oar-lock. Outrigger	C. B. Elliott	269,924	Jan. 2	121	36	23	25
Oatmeal-machine	W. C. Dickey	289,516	Dec. 4	182	50	25	918
Odometer	J. Gillespie	290,767	Dec. 25	1780	492	25	1222
Odometer	J. B. Thomas	273,638	Mar. 6	509	137	23	921
Odorless excavating apparatus	L. Boyér and J. B. Henry	277,209	May 8	877	233	23	1782
Offal. Apparatus for treating	C. Schiller	287,967	Nov. 6	224	64	25	546
Offal-drier	J. F. Johnston	285,135	Sept. 18	1210	339, 340	24	1125
Offal-drier	T. G. Walker	285,187	Sept. 18	1271	357	24	1136
Oil and other substances from seeds, &c. Process of and apparatus for extracting	F. X. Byerley	275,989	Apr. 17	1449	399	23	1491
Oil. Apparatus for steaming petroleum	A. M. McCreary	283,005	Aug. 14	635	179	24	619
Oil as a substitute for linseed-oil. Manufacture of	P. G. Oster	277,331	May 8	1021	.....	23	1808
Oil. Bleaching	H. McManus	290,784	Dec. 25	1799	497	25	1225
Oil-burner	R. H. Dimock and J. A. Robinson	286,914	Oct. 16	1430	393	25	272
Oil-burner	J. J. Miller	281,107	July 10	939	263	24	173
Oil-burner	C. Tondeur	278,374	May 29	2220	635	23	2054
Oil-cake former and spring-mat	W. F. Shaffer	275,278	Apr. 3	504	139	23	1312
Oil-cake-trimming machine	J. T. Harbine	276,811	May 1	359	95	23	1089
Oil, &c., can	F. A. Assmann	273,794	Mar. 13	720	195	23	966
Oil-can	M. Burton	271,032	Jan. 23	1489	429	23	305

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Oil-can	J. A. Campbell	274,718	Mar. 27	1899	530	23	1185
Oil-can	J. A. Campbell	287,232	Oct. 23	1843	504	25	353
Oil-can	T. C. Chalk	286,588	Oct. 16	1015	275	25	201
Oil-can	M. L. Cobb	272,030	Feb. 13	555	150	23	548
Oil-can	E. R. Deverall	272,535	Feb. 20	1199	334	23	664
Oil-can	J. W. Jackson	281,189	July 10	1053	291	24	193
Oil-can	J. F. Lockwood	277,040	May 8	665	173	23	1746
Oil, &c., can	D. W. Norris	276,066	Apr. 17	1539	423, 424	23	1506
Oil-can	G. C. Oram	274,815	Mar. 27	2015	561	23	1905
Oil-can	C. H. Pond	278,179	May 22	2034	559	23	1996
Oil-can	C. H. Tallman	285,705	Sept. 25	1882	536	24	1253
Oil-can	J. C. Thickins	274,054	Mar. 13	1029	282	23	1018
Oil-can faucet	P. Ely	273,831	Mar. 13	767	208	23	973
Oil-can filler and faucet	C. E. Webster	285,712	Sept. 25	1898	539	24	1256
Oil-can for oiling machinery	J. H. Brown	290,206	Dec. 18	1031	290	25	1065
Oil-can holder	A. J. Higgins	282,986	Aug. 14	602	170	24	614
Oil-can holder	J. L. Peake	284,661	Sept. 11	611	172	24	1013
Oil-can nozzle	F., Sr., and W. Hummel	277,287	May 8	965	259	23	1799
Oil-can spout	J. Kaye	270,810	Jan. 16	1219	351	23	253
Oil-cans. Pump attachment for	M. Burton	275,883	Apr. 17	1329	366	23	1469
Oil-cloth, &c. Machine for ornamenting and cutting	A. F. Buchanan	271,782	Feb. 6	238	66	23	482
Oil-cloth. Manufacture of	A. F. Buchanan	276,765	May 1	309	80	23	1679
Oil-cloth, &c. Utilizing waste	J. H. Greene	276,029	Apr. 17	1498	.....	23	1499
Oil. Coloring kerosene	H. R. Burk	284,811	Sept. 11	806	.....	24	1047
Oil-cup	W. S. Cooper	277,683	May 15	1438	387	23	1885
Oil-cup	J. W. Fenner	272,379	Feb. 13	993	277	23	623
Oil-cup	H. F. Hodges	286,438	Oct. 9	828	224	25	161
Oil-cup	E. P. Monroe	283,914	Aug. 28	1743	492	24	839
Oil-cup	G. S. Nickum	288,102	Nov. 6	387	109	25	575
Oil-cup	J. J. Reichard	278,742	June 5	84	24	23	2138
Oil-cup	R. J. Thomas	287,979	Nov. 6	238	68	25	549
Oil-cup. Automatic	O. E. Turner and F. L. Chamberlin	290,499	Dec. 18	1422	394	25	1153
Oil-cup. Regulating sight-feed	W. P. Phillips	276,069	Apr. 17	1543	424	23	1507
Oil-ejecting machine	J. G. Conlon and S. R. Dyer	290,661	Dec. 25	1894	523	25	1242
Oil. Extracting and mixing linseed	E. Kells and A. J. Adams	280,483	July 3	146	.....	24	34
Oil-feeder	D. S. Roberts	272,980	Feb. 27	1774	490	23	771
Oil from cods' livers. Apparatus for extracting	A. Kendrick and E. L. Jerauld	275,828	Apr. 17	1258	346	23	1456
Oil from cotton-seed. Extracting	S. and A. Scheibler	281,566	July 17	1529	.....	24	280
Oil from crude petroleum. Obtaining lubricating	M. E. Arendt and A. L. Weil	278,844	June 5	233	68	23	2163
Oil from fish liver and blubber. Process of and apparatus for extracting	F. Payzant	288,106	Nov. 6	392	111	25	575
Oil from oleaginous seeds, &c. Apparatus for extracting	S. B. Dover	270,291	Jan. 9	550	162	23	117
Oil from oleaginous seed. Manufacture of	R. B. Brown	285,220	Sept. 18	1306	367	24	1142
Oil from resinous wood. Method of and apparatus for the manufacture of	L. Pradon	276,981	May 1	582	153	23	1726
Oil from seed and manufacture of oil-cakes therefrom. Expressing	W. Bushell and W. T. Haydon	279,330	June 12	898	251	23	2285
Oil from seeds, &c. Apparatus for use in the extraction of	A. P. Massey	290,083	Dec. 11	881	250	25	1049
Oil from seeds, &c. Percolator for extracting	H. T. Yaryan	280,550	July 3	256	69	24	46
Oil. Glass-bodied vessel for	W. S. Laumaster	280,048	June 26	1778	499	23	2448
Oil. Harness	A. D. Martin	278,808	June 5	176	.....	23	2152
Oil. Lubricating	C. R. Laman	282,648	Aug. 7	208	.....	24	536
Oil. Manufacture of linseed	H. A. Davidson	279,860	June 19	1537	429	23	2400
Oil. Manufacturing linseed	C. D. Gordon	275,642	Apr. 10	1019	.....	23	1408
Oil-mat	G. Leder	274,128	Mar. 20	1140	314	23	1044
Oil-mill box and fittings	J. A. Hunt	277,840	May 15	1621	441	23	1918
Oil or liquid can	R. B. McConnell	270,685	Jan. 16	1066	306	23	224
Oil. Paint	S. W. Hempsted	288,433	Nov. 13	816	.....	25	658
Oil-press box and pan	G. W. Hatfield	272,134	Feb. 13	689	188	23	571
Oil-press hair mat	E. Moyel	280,393	July 3	66	18	24	14
Oil-press mat	F. C. Mann and H. Schumacher	276,846	May 1	399	106	23	1696
Oil-press mat	A. E. Osborn	285,300	Sept. 18	1395	394	24	1160
Oil-press mat. Hydraulic	J. D. Milburn and R. G. Latting, Jr.	279,414	June 12	1012	281	23	2303
Oil-press mats. Manufacture of	C. Eskrett and W. H. Searle	280,460	July 3	158	43	24	29
Oil-presses. Division-mat for	J. C. Tiffany	275,961	Apr. 17	1412	389, 390	23	1485
Oil. Process of and apparatus for reducing the gravity of petroleum	D. Rogers	284,332	Sept. 4	214	59, 60	24	940
Oil-safe	W. D. Chapman	285,967	Oct. 2	237	67	25	45
Oil-saving contrivance	W. M. Mixer	284,752	Sept. 11	732	205	24	1035
Oil-stone	E. N. Soulis	278,190	May 22	2048	563	23	1998
Oil-tank	W. C. Scofield	286,231	Oct. 9	548	150	25	111
Oil-tank cover	J. P. Reinecke	289,557	Dec. 4	233	66	25	927
Oil-tank protector	J. L. Finn	290,558	Dec. 18	1503	415	25	1166
Oil-tank. Safety	J. J. Finnigan	290,559	Dec. 18	1505	415	25	1167
Oil-tank. Safety	S Lander	290,438	Dec. 18	1342	371	25	1138
Oils and fats. Purifying fatty	H. Schlinck	278,187	May 22	2046	.....	23	1996
Oils. Decolorizing and deodorizing heavy mineral	H. Ujhely	289,788	Dec. 4	515	.....	25	975
Oils. Decolorizing vegetable	I. A. Bang and C. A. Sanguinetti	287,216	Oct. 23	1822	.....	25	349
Oils from organic substances. Manufacturing	D. M. Buie. (Reissue)	10,338	June 5	638	173	23	2231
Oils from vegetable and animal matter. Extraction of	J. W. Evans	281,040	July 10	865	240	24	160
Oils from vegetables, &c. Manufacture of	C. F. Stollmeyer	271,664	Feb. 6	94	.....	23	456
Oils, &c. Process of and apparatus for chilling paraffine	T. D. Fairfield	290,016	Dec. 11	804	226	25	1035
Oils. Process of and mechanism for extracting	J. W. Evans	285,598	Sept. 25	1757	498	24	1230
Oils. Purification of mineral	A. André, Fils	284,589	Sept. 11	527	149	24	999
Oils. Refining fat	J. Davis	273,036	Feb. 27	1844	.....	23	784
Oils. Testing	J. O. Schubert	270,489	Jan. 9	800	233	23	166
Oils. Vialing essential	C. C. Hudson	272,960	Feb. 27	1750	489	23	767
Oiler	C. C. Erlenborn	277,555	May 15	1291	347	23	1859
Oiler. Centrifugal	G. B. Ross	288,667	Nov. 20	1107	304	25	715

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Oiler. Crank-pin	A. B. Smith	284,767	Sept. 11	755	210	24	1038
Oiler for car-wheels	H. A. Barrows and R. F. Cummings	286,762	Oct. 16	1236	334	25	239
Oiler for carriage-axles	S. and E. M. Comstock	284,386	Sept. 4	280	78	24	951
Oiler for machinery	F. A. Gardner	280,029	June 26	1754	493	23	2444
Oiler. Hand-	C. Weldy and G. Witman	274,683	Mar. 27	1861	518	23	1178
Oiling and softening hemp and other vegetable fibers. Machine for	J. Good	280,814	July 10	595	166	24	111
Oiling cylinders of steam-engines	J. G. Donnenwerth	288,037	Nov. 6	311	88	25	561
Oiling engine-slides. Device for	C. C. Smith	284,768	Sept. 11	756	210	24	1038
Oiling-pump for steam-engines	W. Heston	271,238	Jan. 30	1741	503, 504	23	355
Ointment	G. W. Hall	279,940	June 26	1643	.....	23	2425
Ointment	M. G. Holder	272,138	Feb. 13	694	.....	23	572
Ointment	S. B. Leonardy	271,341	Jan. 30	1872	.....	23	377
Oleaginous and soluble matter from other bodies. Extracting	G. N. Phelps	288,259	Nov. 13	584	162	25	618
Oleaginous matter from animal and vegetable substances. Extracting	J. D. Jones	271,859	Feb. 6	332	91	23	499
Oleaginous matter from animal and vegetable substances. Extracting	J. D. Jones	287,382	Oct. 23	2025	550	25	386
Oleomargarine. Machine for mixing and working	J. H. McDonald	270,454	Jan. 9	761	223	23	158
Opera-chair	E. G. Durant	271,320	Jan. 30	1847	536	23	373
Opera-chair	E. G. Durant and T. Kane	274,742	Mar. 27	1924	536	23	1190
Opera-chair	W. H. H. Knight	276,830	May 1	383	102	23	1693
Operating-table	A. W. Brinkerhoff	283,199	Aug. 14	869	242, 243	24	661
Optometer	L. A. Berteling	275,348	Apr. 10	632	169	23	1342
Optometer	F. and R. Kabus	271,472	Jan. 30	2052	591	23	410
Optometer	A. A. Trowbridge	276,732	May 1	264	67	23	1669
Orange-clipper	M. S. Drake	278,108	May 22	1941	532	23	1980
Order-holder	E. C. Page and J. B. McCleery	273,301	Mar. 6	75	21	23	847
Ordnance	G. A. Cassagnes	279,636	June 19	1277	354	23	2355
Ordnance	J. Vavasseur	277,634	May 15	1382	373	23	1875
Ordnance. Apparatus for controlling the recoil of	J. Vavasseur	283,688	Aug. 21	1466	413	24	779
Ordnance. Breech-loading	A. Dickerman	270,289	Jan. 9	548	161	23	117
Ordnance. Breech-loading	W. H. Mellnish	280,207	June 26	1949	548	23	2480
Ordnance. Breech-loading	T. Nordenfelt	282,008	July 24	2098	575	24	383
Ordnance. Breech-loading	J. H. Stewart	286,649	Oct. 16	1094	295	25	215
Ordnance. Breech-loading	J. Vavasseur	275,550	Apr. 10	896	242, 243	23	1387
Ordnance by electricity. Mechanism for firing	A. Bouilly	289,966	Dec. 11	738	208	25	1023
Ordnance. Compound	J. Reese	272,900	Feb. 27	1684	471, 472	23	757
Ordnance. Gas-check for breech-loading	L. Freyre	270,299	Jan. 9	559	164	23	119
Ore and mineral separator	R. H. Richards and F. G. Coggin	271,657	Feb. 6	87	24	23	455
Ore and rock crusher	M. B. Dodge	273,477	Mar. 6	307	83	23	886
Ore concentrating and amalgamating machine	D. H. Anderson	272,614	Feb. 20	1301	362, 363	23	682
Ore-concentrating apparatus	C. B. Hitchcock	279,164	June 12	701	191	23	2252
Ore-concentrating table	R. N. Clark and N. H. Cone	285,970	Oct. 2	240	67, 68	25	46
Ore-concentrator	J. M. Adams and W. F. Carter	272,509	Feb. 20	1168	327	23	659
Ore-concentrator	W. F. Carter and J. M. Adams	285,110	Sept. 18	1177	329, 330	24	1119
Ore-concentrator	A. D. Clarke	276,775	May 1	318	83	23	1681
Ore-concentrator	A. D. Clarke	285,232	Sept. 18	1318	372	24	1145
Ore-concentrator	E. L. Doyle and G. S. Burr	290,008	Dec. 11	794	223	25	1033
Ore-concentrator	P. W. Duffield	275,809	Apr. 17	1239	341	23	1453
Ore-concentrator	A. A. Kent	280,934	July 10	743	207	24	137
Ore-concentrator	C. Kleinschmidt	270,956	Jan. 23	1405	404	23	291
Ore-concentrator	H. P. Mabry	287,840	Nov. 6	60	18	25	518
Ore-concentrator	J. Miller	289,018	Nov. 27	1534	424	25	799
Ore-concentrator	C. C. Rueger	287,173	Oct. 23	1763	484	25	340
Ore-concentrator	P. A. Simmons and C. J. Henry	269,152	Nov. 27	1701	472, 473	25	828
Ore-concentrator	W. E. Stirk	286,342	Oct. 9	715	191, 192	25	140
Ore-concentrator	W. S. Ward	276,738	May 1	272	69	23	1671
Ore concentrator and amalgamator	F. M. Johnson	287,546	Oct. 30	2233	606	25	435
Ore concentrator. Dry-	W. B. Farwell	274,581	Mar. 27	1743	484	23	1156
Ore concentrator. Dry-	W. B. Farwell	278,325	May 29	2254	617	23	2041
Ore concentrator. Dry	J. Hubert	276,181	Apr. 24	1685	466	23	1539
Ore-concentrator. Dry	J. G. Vollmer	287,396	Oct. 23	2043	556	25	389
Ore-crusher	F. H. McDowell	286,723	Oct. 16	1191	321	25	231
Ore-crusher	W. S. Sharpneck	279,983	June 26	1690	474	23	2433
Ore-crusher	F. and W. W. Wheeler	285,538	Sept. 25	1682	474	24	1216
Ore crusher and pulverizer	J. H. Kinkead	277,578	May 15	1319	354	23	1864
Ore crusher and pulverizer	R. McCully	274,956	Apr. 3	95	26, 27	23	1241
Ore crusher and pulverizer	R. McCully	277,763	May 15	1532	416, 417	23	1903
Ore-crusher feed attachment	T. A. Blake	277,666	May 15	1419	383	23	1881
Ore-crushing machine	W. Clark	277,233	May 8	901	240	23	1786
Ore-crushing machine	F. Morey	274,215	Mar. 20	1252	345	23	1064
Ore-desulphurizing furnace	A. T. Schuessler	276,636	May 1	114	30	23	1646
Ore-feeder	W. E. Wild	283,180	Aug. 14	842	235, 236	24	656
Ore-furnace	F. J. Hoyt	272,959	Feb. 27	1749	489	23	767
Ore grinder and amalgamator. Combined	P. Eddy	287,256	Oct. 23	1870	511, 512	25	358
Ore grinding and pulverizing machine	W. H. Howland	281,511	July 17	1467	403	24	271
Ore preparatory to smelting. Purifying iron	C. Cherry, Sr	290,215	Dec. 18	1045	294	25	1087
Ore-pulverizer	J. B. Sweetland	271,285	Jan. 30	1803	523	23	365
Ore pulverizer and concentrator. Dry-	A. Wingard	289,791	Dec. 4	517	143	25	976
Ore-pulverizing machine	H. E. Parson	282,218	July 31	2388	658	24	437
Ore-pulverizing mill	W. I. Tustin	288,745	Nov. 20	1210	331	25	732

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Ore reducing and separating machine	C. E. Moore	281,782	July 24	1826	498 499	24	337
Ore-reducing furnace	V. Colliau	284,384	Sept. 4	276	77	24	951
Ore-reducing furnace	G. A. Lawrence and E. J. Frost	287,945	Nov. 6	197	57	25	541
Ore roasting and amalgamating apparatus	S. G. Rollins	290,802	Dec. 25	1826	504	25	1230
Ore-roasting furnace	W. Black and T. Larkin	278,859	June 5	256	74	23	2166
Ore-roasting furnace	J. M. Thompson	281,945	July 24	2024	554	24	372
Ore-roasting furnace	R. L. Thompson	282,803	Aug. 7	393	111	24	569
Ore-roasting furnace	T. Walker and J. F. Carter	280,102	June 26	1837	517 518	23	2460
Ore-separating machine	O. L. Farnham	284,401	Sept. 4	295	83	24	954
Ore-separating machines. Magnetic apron-cylinder for	E. B. Hastings	290,182	Dec. 11	993	280	25	1070
Ore-separator	C. St. Charles	283,296	Aug. 14	987	275 276	24	684
Ore-separator	J. A. Coombes	288,550	Nov. 13	957	263	25	682
Ore-separator	A. P. Granger	269,848	Jan. 2	35	12	23	9
Ore-separator	B. Hershey	289,261	Nov. 27	1828	505	25	852
Ore-separator	B. Hershey and C. A. Hitchcock	276,534	Apr. 24	2133	594	23	1615
Ore-separator	H. P. Minot	273,583	Mar. 6	445	120	23	911
Ore-separator	C. W. Stickney	270,259	Jan. 9	512	150	23	110
Ore separator and amalgamator	H. P. Tobey and G. B. Thayer	287,195	Oct. 23	1791	491 492	25	345
Ore separator. Dry	M. B. Dodge	279,640	June 19	1280	355 356	23	2356
Ore separator. Dry	J. C. McCurdy	278,160	May 22	2010	553	23	1996
Ore separator. Dry	P. W. Reardon	276,710	May 1	228	58	23	1664
Ore-separator. Electric	H. Greve	292,073	July 31	2189	601	24	405
Ore-separator. Magnetic	J. Rae	273,309	Mar. 6	84	25	23	848
Ore separator. Wet	M. B. Dodge	279,641	June 19	1282	356	23	2356
Ore-sizing apparatus	I. F. Monell	270,825	Jan. 16	1234	356	23	256
Ore-washer	J. G. Roberts	285,307	Sept. 18	1402	396	24	1161
Ore-washer rake	W. R. Jenkins, Jr	271,856	Feb. 6	320	91	23	498
Ores. Apparatus for detecting mineral	F. H. Brown	274,882	Mar. 27	2101	583	23	1218
Ores. Apparatus for treating	E. W. Stoufer	275,729	Apr. 10	1119	306	23	1425
Ores for furnaces. Preparing powdered or granulated	J. J. Fronheiser	287,117	Oct. 23	1694	.....	25	327
Ores for smelting. Apparatus for roasting and preparing	C. Cherry, Sr	290,214	Dec. 18	1042	293	25	1087
Ores, &c. Machine for pulverizing	A. L. Fish	287,653	Oct. 30	2387	644	25	463
Ores. Method of and apparatus for desulphurizing	W. F. Browne	284,178	Sept. 4	26	6	24	909
Ores. Method of and apparatus for reducing and disintegrating	E. Warne	289,587	Dec. 4	269	76	25	935
Ores of the precious metals. Machinery for separating	T. P. Benton	273,703	Mar. 13	595	160	23	944
Ores. Obtaining precious metals from refractory	G. T. Lewis	286,025	Oct. 2	301	84	25	56
Ores preparatory to smelting. Desulphurizing and purifying	C. Cherry, Sr	290,213	Dec. 18	1040	293	25	1087
Ores. Process of and apparatus for desulphurizing	W. F. Browne	284,177	Sept. 4	23	6	24	908
Ores. Process of grinding and apparatus for amalgamating	C. H. Dow and W. H. Chandler	282,863	Aug. 7	466	132	24	583
Ores, &c. Pulverizing machinery for	W. M. Fuller	278,232	May 22	2107	580	23	2008
Ores. Reducing	J. P. Gill	284,126	Aug. 28	2032	.....	24	890
Organ action. Reed	H. K. White	286,516	Oct. 9	918	248	25	177
Organ-bell attachment	A. S. Nichols	281,121	July 10	961	269	24	177
Organ blow-pedal	J. C. Vetter	277,435	May 8	1137	306	23	1828
Organ-case	J. R. Lomas	280,197	June 26	1938	545	23	2478
Organ. Pipe	T. H. Knoblin	273,369	Mar. 6	173	47	23	864
Organ. Pipe	W. H. Young	272,181	Feb. 13	739	204	23	580
Organ. Reed	E. A. Foster	289,638	Dec. 4	330	92	25	946
Organ. Reed	W. E. Leighton	276,837	May 1	391	104	23	1695
Organ. Reed	L. B. Norton	270,974	Jan. 23	1426	411	23	294
Organ. Reed	H. K. White	274,686	Mar. 27	1865	520	23	1179
Organ-reed	W. Munroe	274,642	Mar. 27	1812	503	23	1169
Organ stop-action. Reed	B. French	279,372	June 12	960	267	23	2295
Organ swell. Reed	C. H. Davis	278,515	May 29	2490	680	23	2084
Organs. Pneumatic action for	W. F. Cooper	271,606	Feb. 6	27	7	23	445
Ornamentation of surfaces	W. S. and W. H. Henay	278,958	June 5	424	116	23	2196
Ornamentation of walls, paper, textile fabrics, glassware, &c.	C. Juncker	277,572	May 15	1310	.....	23	1862
Ornamenting surfaces of walls, ceilings, paper-hangings, &c.	G. Giersberg and R. Wirth	283,595	Aug. 21	1358	379	24	758
Ornamenting-tool	F. W. Davenport	282,613	Aug. 7	165	50	24	529
Ornaments, letters, figures, or characters upon a foundation material. Manufacture of	F. Koskul	289,917	Dec. 11	684	191	25	1013
Oscillating chair	M. V. B. Evesson	281,477	July 17	1427	391	24	263
Oscillating chair	M. V. B. Evesson	283,988	Aug. 28	1838	518	24	857
Oscillating motor	A. and A. Iske	271,639	Feb. 6	68	19	23	452
Oscillating steam-engine	G. Gregory	285,998	Oct. 2	269	75	25	51
Ottoman	W. S. Wright	272,825	Feb. 20	1563	439	23	730
Outrigger-boat	T. Fearon	271,441	Jan. 30	2006	579	23	402
Oven	C. P. De Bondini	281,620	July 17	1605	439	24	292
Oven. Bake	W. Marvin	286,142	Oct. 2	444	120	25	82
Oven. Baker's	A. Crumbie	271,806	Feb. 6	265	73	23	487
Oven. Baking	A. Reid	287,962	Nov. 6	220	62	25	545
Oven for cooking, baking, or drying	G. S. Blodgett	288,201	Nov. 13	510	142	25	605
Oven-grate. Adjustable	G. W. Verrill	274,533	Mar. 27	1684	468	23	1146
Oven-light. Baker's	A. Klemt	271,714	Feb. 6	152	42	23	466
Oven. Portable	S. J. McDowell	275,784	Apr. 10	1196	328	23	1438
Overalls	W. Carter	280,574	July 3	282	78	24	51
Overalls	C. O. Cole	278,313	May 29	2235	613	23	2038
Overalls	G. Dawson	278,106	May 22	1939	532	23	1979
Overalls	S. Laskey	272,065	Feb. 13	599	162	23	556
Overalls	R. T. McDonald	280,056	June 26	1785	501	23	2450
Overalls	J. Wahl	275,441	Apr. 10	761	203	23	1364

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Overalls and drawers	I. Bush	280,444	July 3	134	36	24	25
Overcoat	P. J. Oberst. (Reissue)	10,384	Sept. 18	1482	417	24	1174
Overflow from backwater. Preventing	M. Pabst	271,110	Jan. 23	1583	455	23	320
Overshoe	C. S. Baldwin	286,761	Oct. 16	1236	334	25	239
Overshoe	P. D. Beard	273,803	Mar. 13	730	198	23	968
Overshoe	H. L. Roosevelt	277,614	May 15	1358	366	23	1870
Overshoe-fastening	B. P. Kimball	272,887	Feb. 27	1672	467	23	755
Overshoe. Rubber	C. F. Gillet	280,603	July 3	319	89	24	57
Overshoe-strap	T. F. Byrnes	282,954	Aug. 14	569	161	24	608
Overstitching-machine	J. E. Richard	280,765	July 3	526	147, 148	24	93
Oversock	R. Greener	290,640	Dec. 18	1607	442	25	1183
Ox-shoe	W. Pearce	284,888	Sept. 11	890	251	24	1063
Oxidizable liquids. Process of and apparatus for purifying	H. T. Yaryan	280,549	July 3	255	68	24	46
Oxidizing-furnace	W. E. Harris	276,175	Apr. 24	1679	464	23	1538
Oxyquinoline. Preparing	O. Fischer	270,045	Jan. 2	257	.....	23	52
Oyster-dredge	E. Paterson	279,792	June 19	1451	406	23	2386
Oyster-dredge	J. N. Woodruff	284,156	Aug. 28	2070	575	24	896
Ozone apparatus	H. D. Hall	282,190	July 31	2357	649	24	430
Ozone-generator	W. A. Gay	287,760	Oct. 30	2532	682	25	490
Package and box cover fastener	S. E. Moore	279,417	June 12	1016	282	23	2304
Package-carrier	T. M. Turner	270,917	Jan. 23	1349	389	23	282
Package-elevator	F. I. Pearce	285,663	Sept. 25	1832	523	24	1244
Package for butter, &c	R. R. Street	276,199	Apr. 24	1708	472	23	1543
Package for coffee and other materials	J. T. Cooke	273,819	Mar. 13	754	205	23	971
Package-holder	T. E. Baden	290,514	Dec. 18	1447	400	25	1157
Package. Shipping	O. P. Furman	274,754	Mar. 27	1942	540	23	1192
Package-tie	W. D. Smith	274,044	Mar. 13	1016	278	23	1016
Packages of small merchandise. Machine for forming wrappers for	W. B. Howe	270,669	Jan. 16	1044	299	23	220
Packing and lubricating device. Vapor-engine	I. R. Blumenberg	290,965	Dec. 25	2039	561	25	1265
Packing and storing box	A. J. Herring	287,435	Oct. 30	2094	569	25	406
Packing. Automatic metallic	H. P. Weale	275,299	Apr. 3	532	145	23	1316
Packing-box	H. A. Ruhlmann	277,788	May 15	1559	424	23	1907
Packing-box. Folding commercial	H. Johnson	284,211	Sept. 4	69	19	24	916
Packing-box. Reshipping	W. M. Baker	272,513	Feb. 20	1172	327, 328	23	659
Packing-box. Sheet-metal	L. D. Dozier	279,726	June 19	1381	385	23	2373
Packing-case	T. Cockcroft	276,356	Apr. 24	1912	531	23	1577
Packing case, box, &c	W. C. Barker	279,689	June 19	1341	373	23	2366
Packing-case. Folding	W. B. Van Hutton	274,418	Mar. 20	1608	415	23	1109
Packing-case for holding bananas during transportation.	W. H. Goss	276,027	Apr. 17	1496	411	23	1498
Packing. Composition for self-lubricating	R. Morrison	285,648	Sept. 25	1815	517	24	1241
Packing device. Steam	W. Fidler	276,379	Apr. 24	1941	537	23	1582
Packing emery-wheels, &c., for burning. Apparatus for	S. Pulson and M. L. Snow	287,469	Oct. 30	2134	580	25	415
Packing for hot journals on cars, &c. Compound	M. L. Woodbury	280,277	June 26	2042	.....	23	2496
Packing for hydraulic cylinders	J. H. Luton	289,776	Dec. 4	501	139	25	973
Packing for ice-machines	W. A. Reid	275,269	Apr. 3	492	136	23	1310
Packing for piston-rods	J. A. Osgood	274,365	Mar. 20	1444	396	23	1098
Packing for piston-rods. Metal	S. Armstrong	274,165	Mar. 20	1186	327	23	1053
Packing for piston-rods. Metallic	N. C. Bassett	271,300	Jan. 30	1820	528	23	369
Packing for piston-rods. Metallic	C. W. Mills	284,042	Aug. 28	1923	538	24	871
Packing for pistons and plungers	W. D. Hooker	280,038	June 26	1765	496	23	2446
Packing for pistons. Metallic	J. Brandon	283,068	Aug. 14	708	199	24	633
Packing for steam-joints	D. N. Melvin	277,048	May 8	675	176	23	1747
Packing for valve-stems, &c	L. Grannan	275,193	Apr. 3	399	110	23	1295
Packing glass gage-tubes. Device for	W. H. Bray	276,154	Apr. 24	1654	456	23	1534
Packing. Journal	E. Medden	276,060	Apr. 17	1534	421	23	1505
Packing. Metallic	J. A. Osgood	274,816	Mar. 27	2016	561	23	1205
Packing. Metallic rod	C. D. Stevens	271,748	Feb. 6	196	55	23	474
Packing. Metallic wire	S. Armstrong	287,751	Oct. 30	2519	679	25	488
Packing. Pipe-joint	C. T. Bride	274,434	Mar. 20	1528	420	23	1113
Packing. Piston	L. O. Hall	287,669	Oct. 30	2407	649	25	468
Packing. Piston	D. W. Jewell	271,076	Jan. 23	1547	446	23	315
Packing. Piston	R. McKenna	277,764	May 15	1535	417	23	1903
Packing. Piston	W. W. St. John	275,955	Apr. 17	1405	387	23	1483
Packing. Piston	S. D. Tucker	271,003	Jan. 23	1457	420	23	299
Packing. Piston-rod	H. C. Hunt	283,711	Aug. 21	1497	422	24	784
Packing. Piston-rod	J. L. Reed	270,483	Jan. 9	794	232	23	165
Packing. Piston-rod	M. D. L. Swank and J. T. Thornley	285,441	Sept. 25	1573	442	24	1195
Packing-receptacles. Cover-fastening for	S. L. Fraser	272,873	Feb. 27	1647	461	23	751
Packing-ring for piston-rods	R. L. King	285,139	Sept. 18	1215	341	24	1126
Packing-ring for pumps	W. E. Karns	278,557	May 29	2539	692	23	2092
Packing. Rod	J. C. Farmer and R. A. Calder	285,244	Sept. 18	1334	376	24	1148
Packing. Steam	C. H. Newman	277,151	May 8	812	214	23	1771
Packing. Steam and other	W. P. Woodruff	271,390	Jan. 30	1939	561	23	390
Packing steam-joints	R. A. Bulkley	287,416	Oct. 30	2071	563	25	402
Packing. Stuffing-box	J. Player	284,756	Sept. 11	741	206	24	1036
Packings. Apparatus for cutting	F. W. Jenkins	288,339	Nov. 13	687	189, 190	25	635
Pad: *See* Absorptive pad. Buffing-pad. Collar-pad. Crupper-pad. Furniture-pad. Harness-pad. Harness chafe-pad. Horse foot-pad. Insect-exterminating pad. Picture-frame protective pad. Stair-pad. Tobacco-moistening pad. Truss-pad.							
Pad or pillow for the use of travelers	G. E. Mitchell	270,242	Jan. 9	493	145	23	107
Pad-tree and harness-saddle	C. C. Schwaner	271,927	Feb. 6	419	114	23	514
Paddle. Feathering	G. A. Keene	274,945	Apr. 3	80	22	23	1239

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Paddle-wheel	C. P. Thresher	275,291	Apr. 3	522	143	23	1315
Paddle-wheel	E. L. Williams	278,477	May 29	2443	666 667	23	2076
Paddle-wheel. Feathering	D. J. Blasier	276,662	May 1	152	39	23	1632
Paddle-wheel. Feathering	L. C. Fogg	279,558	June 19	1189	329	23	2340
Paddle-wheel. Feathering	J. Lane	274,345	Mar. 20	1419	389	23	1094
Paddle-wheel. Feathering	C. Megow	269,948	Jan. 2	151	44	23	31
Padlock	F. Egge	278,229	May 22	2103	579	23	2006
Padlock	J. W. Eldridge	277,469	May 15	1185	318	23	1843
Padlock	E. T. Fraim. (Reissue)	10,272	Jan. 16	1296	374	23	282
Padlock	T. B. Priddy	280,327	June 26	2107	591	23	2507
Padlock	C. H. Smith	272,593	Feb. 20	1274	355	23	677
Padlock	P. Yoe and J. Kirby, Jr	275,970	Apr. 17	1422	392	23	1487
Padlock. Indicator	A. Jackson	287,028	Oct. 23	1581	436	25	305
Padlock. Permutation	W. S. Chedister	286,903	Oct. 16	1415	389	25	270
Padlock. Permutation	M. A. Ekl, V. Skala, A. Hoyda, and M. Cizek.	288,559	Nov. 13	969	266	25	685
Padlock. Permutation	G. H. Newell	287,309	Oct. 23	1938	530	25	371
Paging-machine	J. McAdams	277,310	May 8	996	267	23	1884
Pail and other vessels. Chamber	F. Heyl. (Reissue)	10,369	Aug. 21	1531	432	24	791
Pail. Dinner	C. E. Banks and J. W. Chestnut	284,592	Sept. 11	5530	150	24	1000
Pail. Dinner	W. P. Marshall	272,387	Feb. 13	1005	281	23	625
Pail. Dinner	A. G. Points	281,132	July 10	978	273	24	179
Pail. Dinner	F. M. Starbuck and R. M. Taylor	277,371	May 8	1063	286	23	1815
Pail-ear	W. G. Moore	285,298	Sept. 18	1394	394	24	1159
Pail ear. Tin	D. Block	285,105	Sept. 18	1169	327	24	1118
Pail. Lantern dinner	C. J. Slafter	270,610	Jan. 16	970	280	23	206
Pail. Milk	R. A. Campbell	274,268	Mar. 20	1316	263	23	1076
Pail. Non-heat-conducting	T. C. Chalk	274,461	Mar. 27	1574	431	23	1192
Pail, tub, keg, barrel, &c	W. M. Fowler	277,560	May 15	1266	348	23	1860
Pails. Pouring-spout for milk	H. Leonard	272,714	Feb. 20	1423	399	23	704
Paint	C. Miller	274,807	Mar. 27	2004	.....	23	1203
Paint	A. L. Munson	285,151	Sept. 18	1230	.....	24	1128
Paint	A. Sorg and F. D. Phillips	289,868	Dec. 11	621	.....	25	1002
Paint	C. Toppan	272,102	Feb. 13	652	.....	23	564
Paint-can	E. Norton	287,047	Oct. 23	1604	441	25	309
Paint compound	A. G. Peuchen	281,131	July 10	978	.....	24	179
Paint compound or mixture for roofs, &c	A. G. Peuchen	280,856	July 10	643	.....	24	129
Paint. Detergent or compound for removing	A. Munder	271,901	Feb. 6	381	.....	23	502
Paint-distributer	L. Walkup	285,325	Sept. 18	1423	402	24	1164
Paint-distributer	J. P. Whipple	280,696	July 3	430	122	24	77
Paint-distributer	J. P. Whipple	289,048	Nov. 27	1580	436	25	806
Paint. Fire and water proof	W. S. Chandler	288,621	Nov. 20	1049	.....	25	706
Paint. Fire and water proof	D. H. Smith	288,269	Nov. 13	601	.....	25	690
Paint for metallic surfaces. Composition	H. R. Clothier, J. Grogan, and J. McMullen.	286,117	Oct. 2	415	.....	25	76
Paint for roofing and other purposes	F. Jones	278,664	May 29	2669	.....	23	2115
Paint. Liquid	R. H. Smith	286,858	Oct. 16	1356	.....	25	261
Paint or coloring material to artists' academy-boards. Apparatus for the application of	E. H. Friedrichs	287,530	Oct. 30	2210	600	25	430
Paint or dye. Composition to be used as a	N. McCallum	283,965	Aug. 14	953	.....	24	677
Paint. Roofing	M. Blake	286,255	Oct. 9	584	.....	25	117
Paint. Silicated	M. Mathes	270,450	Jan. 9	757	.....	23	156
Paint. Water-proof	E. Hays	274,599	Mar. 27	1768	.....	23	1161
Paints. Composition for restoring	F. W. Armstrong	286,167	Oct. 9	474	.....	25	99
Paints, oils, and varnishes. Solvent for	J. A. Henry	275,381	Apr. 10	681	.....	23	1351
Painter's adjustable horse or jack. Carriage	B. Miller	276,854	May 1	411	109	23	1698
Painter's striping device	W. A. Kibbe	279,767	June 19	1422	398	23	2381
Painting fence-pickets by dipping. Apparatus for	W. Thomas	284,684	Sept. 11	646	182	24	1019
Painting. Mineral	A. Keim	287,942	Nov. 6	192	56	25	541
Painting wire fences. Machine for	W. E. Brown and H. J. Durgin	276,347	Apr. 24	1904	528	23	1576
Pamphlet-holder	J. O. Poor	287,052	Oct. 23	1612	444	25	311
Pan: *See* Bake-pan. Baking-pan. Bed-pan. Dish-pan. Dust-pan. Evaporating-pan. Frying-pan. Locomotive ash-pan. Milk-pan. Roasting and baking pan. Scale-pan. Sheet-metal pan. Vacuum-pan.							
Pan or stove-cover lifter	T. S. Haskell	279,153	June 12	691	189	23	2251
Pannier and bustle	J. Schoenhof	273,165	Feb. 27	2002	563	23	812
Pantaloon garment	C. C. Pearson	281,790	July 24	1839	503	24	339
Pantaloon-protector	C. J. McDermott	271,891	Feb. 6	367	101	23	505
Pantaloon-stretcher	T. Luce	279,262	June 12	807	223	23	2271
Pantaloons	H. Harris	286,609	Oct. 16	1042	281	25	205
Pantaloons, &c. Stretcher for	T. H. Harris	286,812	Oct. 16	1296	352	25	250
Pants. Attachment for	I. R. Curtis	289,894	Dec. 11	655	183	25	1002
Pants-protector	G. Watkinson	281,213	July 10	1024	298	24	198
Paper	J. B. Crane	283,701	Aug. 21	1480	417	24	782
Paper and cards. Ornamenting	P. Hake	285,482	Sept. 25	1617	454	24	1204
Paper and envelope package	S. J. Spurgeon	279,283	June 12	829	230	23	2275
Paper and paper bags. Stand for holding wrapping	J. M. Fulton	289,825	Dec. 11	564	158	25	992
Paper articles. Manufacture of	W. McMahon	277,593	May 15	1333	358	23	1866
Paper articles. Manufacture of	W. McMahon	277,594	May 15	1335	358	23	1866
Paper bag	G. O. Blowers	286,896	Oct. 16	1406	396	25	268
Paper bag	J. P. Onderdonk	277,153	May 8	814	214	23	1772
Paper bag	J. P. Onderdonk	279,586	June 19	1221	338	23	2345
Paper bag	J. P. Onderdonk	279,587	June 19	1222	339	23	2345
Paper bag	J. P. Onderdonk	279,588	June 19	1222	339	23	2346
Paper bag	J. P. Onderdonk	279,589	June 19	1222	339	23	2346
Paper bag	J. P. Onderdonk	279,590	June 19	1223	339	23	2346
Paper bag	D. Shirley	273,902	Mar. 13	853	231	23	966
Paper bag and twine holder	A. W. Cash	279,333	June 12	903	252	23	2286

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Paper-bag and twine holder	A. M. Reeves	288,116	Nov. 6	404	114	25	578
Paper-bag and twine holder. Combined	A. Brown	288,204	Nov. 13	513	142	25	606
Paper-bag filler. Automatic	T. H. Hill	277,133	May 8	793	208	23	1768
Paper-bag holder	W. H. Ashton	288,967	Nov. 27	1478	409, 410	25	789
Paper-bag holder	G. W. Cook	273,963	Mar. 13	924	254	23	1000
Paper bag holder	O. P. Kenyon	272,263	Feb. 13	844	235	23	599
Paper-bag machine	C. F. Annan	276,744	May 1	978	70, 71	23	1672
Paper-bag machine	T. Coates and J. J. Bissicks	282,166	July 31	2321	637, 638, 639, 640, 641	24	425
Paper-bag machine	H. A. House	283,890	Aug. 28	1715	483, 484	24	834
Paper-bag machine	C. B. Stilwell	279,505	June 12	1117	309, 310	23	2320
Paper bags. Device for fastening	A. W. Angier	286,758	Oct. 16	1232	333	25	238
Paper bags. Machine for making	A. Adams	279,114	June 12	641	175	23	2243
Paper bags. Machine for making	C. A. Chandler	285,392	Sept. 25	1512	425, 426, 427	24	1185
Paper bags. Making	G. O. Blowers	287,753	Oct. 30	2522	680	25	488
Paper bags. Making square	E. B. Stocking	279,109	June 5	625	170, 171	23	2229
Paper bags. Merchant's stand for	J. E. Williamson	286,099	Oct. 2	395	108	25	72
Paper barrels. Machine for the manufacture of	J. F. Seiberling	285,847	Oct. 2	83	24, 25	25	17
Paper. Blotting	E. B. Farris	283,474	Aug. 21	1217	342	24	731
Paper-board for japanning and enameling purposes. Preparing and hardening	G. A. Lovell	270,820	Jan. 16	1230	.....	23	255
Paper-board. Machine for cutting	J. T. Robinson	273,394	Mar. 6	203	55	23	868
Paper boards. Manufacture of	S. H. Hamilton. (Reissue)	10,386	Sept. 25	1995	564	24	1270
Paper boards. Manufacture of	S. H. Hamilton. (Reissue)	10,387	Sept. 25	1996	565	24	1270
Paper box	J. C. Bauer	278,851	June 5	245	70	23	2165
Paper box	A. Brehmer	285,456	Sept. 25	1590	446, 447	24	1198
Paper box	R. R. Colburn	283,209	Aug. 14	880	245	24	664
Paper box	C. De Quilfeldt	271,975	Feb. 6	473	129	23	523
Paper box	G. J. Edwards	281,354	July 17	1271	353	24	237
Paper box	J. Felbel	278,526	May 29	2503	684	23	2086
Paper box	D. J. Ferry	290,018	Dec. 11	806	227	25	1035
Paper box	D. Heston	279,755	June 19	1411	394	23	2379
Paper box	D. Heston	279,756	June 19	1412	394	23	2379
Paper box	D. Heston and D. J. Brown	279,757	June 19	1413	395	23	2379
Paper box	W. R. Miller	282,657	Aug. 7	220	64	24	538
Paper box	A. L. Munson	279,972	June 26	1678	471	23	2431
Paper box	H. S. Munson	288,254	Nov. 13	576	160	25	617
Paper box	H. S. Munson	288,255	Nov. 13	578	160	25	617
Paper box	W. H. H. Rogers	272,327	Feb. 13	917	258	23	611
Paper box	H. D. Stimson	289,161	Nov. 27	1710	476	25	830
Paper box	J. W. Tatum	285,706	Sept. 25	1883	536	24	1254
Paper box	R. Van Baar	278,837	June 5	224	66	23	2161
Paper box	M. L. Wilcox	289,790	Dec. 4	516	143	25	976
Paper box and lid	A. G. Wilson	286,360	Oct. 9	735	197	25	144
Paper-box covering and trimming machine	H. Inman. (Reissue)	10,286	Feb. 13	1020	285	23	628
Paper-box machinery	C. E. Bolton and M. Rankin	284,599	Sept. 11	538	152	24	1002
Paper boxes. Machine for making	B. T. Steber	279,285	June 12	830	230	23	2275
Paper calender-roll	H. J. Frink	285,476	Sept. 25	1611	452	24	1203
Paper-calendering machine	A. S. Alden	282,031	July 31	2131	585	24	395
Paper card-case	C. De Quillfeldt	276,962	May 1	562	146	23	1722
Paper. Coating or waterproofing	C. A. Maxfield	278,443	May 29	2405	.....	23	2069
Paper-cutting machine	C. C. Child	274,273	Mar. 20	1321	364, 365	23	1077
Paper-cutting machine	E. P. Donnell	290,004	Dec. 11	790	222	25	1032
Paper-cutting machine	W. F. Hill	272,438	Feb. 20	1075	303	23	643
Paper-cutting machine	H. Johnson	273,285	Mar. 6	46	14	23	842
Paper-cutting machine. Roll	G. Munro	284,753	Sept. 11	733	205	24	1035
Paper-cutting mechanism	G. Miles	289,923	Dec. 11	689	193	25	1014
Paper-dampening machine	J. J. Clause	286,591	Oct. 16	1017	276	25	201
Paper. Damping and cutting	W. Scott	272,588	Feb. 20	1267	353	23	676
Paper, &c. Electrical apparatus for controlling	J. W. Osborne	287,957	Nov. 6	209	60, 61	25	544
Paper, envelopes, &c. Ornamenting writing	P. Hake and G. A. Raisbeck	270,586	Jan. 16	935	271	23	201
Paper fabric or matting	J. Bray	280,286	June 26	2052	.....	23	2498
Paper-fastener	A. Lotz	290,336	Dec. 18	1199	336	25	1114
Paper-fastener	G. W. McGill	286,143	Oct. 2	444	121	25	83
Paper-feeding machine	F. H. Lauten	283,906	Aug. 28	1733	489, 490	24	837
Paper-feeding machine. Sheet	R. J. Stuart	282,014	July 24	2107	578	24	385
Paper, felt, &c. Apparatus for treating or saturating	J. Jowitt	285,490	Sept. 25	1625	456, 457	24	1205
Paper felt, wadding, or lining. Apparatus for making	C. Fisher and E. R. Solliday	286,287	Oct. 9	647	172	25	128
Paper felting. Manufacture of	F. J. Mather	278,350	May 29	2291	.....	23	2048
Paper-folding and similar machines. Packing device for	J. H. Stonemetz and W. G. Bennett	277,806	May 15	1579	431	23	1911
Paper-folding machine	L. C. Crowell. (Reissue)	10,300	Apr. 3	608	163, 164, 165	23	1328
Paper-folding machine	T. C. Dexter	279,083	June 5	578	158	23	2222
Paper-folding machines. Sheet carrying and adjusting device for	T. C. Dexter	287,421	Oct. 30	2077	564	25	403
Paper for bank-notes, checks, &c. Manufacture of yellow-fibered	E. Musil	282,106	July 31	2231	.....	24	412
Paper for cards and circulars	O. W. Butler and T. W. Kelley	273,023	Feb. 27	1826	511	23	781

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drs.	Vol.	Page.
Paper for carpet-linings, &c	S. Pember and S. Bird	285,839	Oct. 2	68	21	25	14
Paper for copying purposes. Preparing	M. W. Brown	283,322	Aug. 14	1018	.....	24	680
Paper-gumming machine	J. L. Rile	284,236	Sept. 4	102	28	24	921
Paper-hanger's roller	H. Sweetser	290,813	Dec. 25	1840	509	25	1232
Paper-hanging machine and rack	H. Staib	276,728	May 1	259	66	23	1668
Paper-hangings. Ornamenting	J. B. Knoepflin	271,901	Jan. 23	1097	490	23	338
Paper-holder	B. F. Eaton	285,398	Sept. 25	1521	428	24	1187
Paper-holder	R. White	271,177	Jan. 23	1670	481	23	334
Paper holder. Closet-	B. Schoof	282,785	Aug. 7	372	105	24	565
Paper holding and cutting device	W. C. Westerfield	284,105	Aug. 28	2001	557	24	864
Paper-holding device	S. Wheeler	289,735	Dec. 4	459	129	25	966
Paper lantern	J. E. Grumbach	277,712	May 15	1471	397	23	1691
Paper-lining machine	J. C. Bauer	276,335	Apr. 24	1892	525	23	1573
Paper-machine	T. P. Barry	285,954	Oct. 2	224	63	25	43
Paper-machine	C. Bötter	280,123	June 26	1857	523 524	23	2464
Paper-machine	T. A. and J. Boyne, Jr	287,500	Oct. 30	2176	591	25	422
Paper-machine	S. Pember and S. Bird	285,838	Oct. 2	66	21	25	14
Paper. Machine for preparing wood for pulping in the manufacture of	W. Jones	284,433	Sept. 4	334	93	24	960
Paper, &c. Machine for testing	R. Smith	274,146	Mar. 20	1158	319 320	23	1048
Paper-machine spool-clutch	G. Garceau	274,483	Mar. 27	1622	450	23	1135
Paper-machines. Automatic guide for	J. Albey	270,718	Jan. 16	1108	317	23	232
Paper-machines. Method of and apparatus for exhausting the air and extracting the water from the suction-boxes of	J. J. Manning	282,096	July 31	2217	610	24	409
Paper-machines. Method of and apparatus for exhausting the air and extracting the water from the suction-boxes of	J. J. Manning	282,097	July 31	2219	610	24	410
Paper-machines. Stuff-regulator for	C. Young	276,127	Apr. 17	1619	446	23	1520
Paper, &c. Machinery for folding	W. C. Cross	275,154	Apr. 3	356	98	23	1288
Paper-making apparatus	M. Sembritzki	288,125	Nov. 6	413	117	25	580
Paper. Making luminous	W. Trotter, Jr.	274,415	Mar. 20	1502	.....	23	1109
Paper. Making luminous	W. Trotter, Jr.	277,383	May 8	1075	.....	23	1818
Paper-making machine	H. F. Case	286,587	Oct. 16	1013	274	25	201
Paper-making machines. Exhausting the air, gases, and water from suction-boxes for	H. A. Barber	280,555	July 3	260	70	24	47
Paper-making machines. Measuring device for	H. Barth	288,295	Nov. 13	624	171 172	25	625
Paper-making machines. Suction-box for	I. Bratton	280,564	July 3	273	75	24	49
Paper-making machinery	G. E. Marshall	275,056	Apr. 3	227	62	23	1265
Paper-making machinery. Vacuum-box used in	H. Marsden and H. Schofield	289,675	Dec. 4	374	107	25	953
Paper-making. Rag-engine for	W. Whitely	282,818	Aug. 7	409	115	24	572
Paper, &c. Manufacture of	R. Blitz	289,212	Nov. 27	1776	.....	25	842
Paper. Manufacture of impression-	W. Smith	273,772	Mar. 13	696	187	23	961
Paper, &c. Manufacture of luminous	W. C. Horne	290,772	Dec. 25	1786	.....	25	1223
Paper. Manufacture of wrapping-	S. Wheeler	272,369	Feb. 13	970	271	23	620
Paper-moistening machine	J. H. Stonemetz	275,957	Apr. 17	1407	388	23	1484
Paper of imperfections. Making	J. T. Ryan	281,400	July 17	1325	.....	24	246
Paper of imperfections. Making	J. T. Ryan	283,026	Aug. 14	662	.....	24	625
Paper or pasteboard. Manufacture of	C. S. Cummings and C. A. Shank	279,350	June 12	926	.....	23	2290
Paper ornaments. Producing	J. Fried	286,693	Oct. 16	1155	311	25	225
Paper pail or box	I. W. Hollett	279,244	June 12	784	216	23	2367
Paper-perforating machine	R. T. Smith. (Reissue)	10,311	Apr. 10	1213	332 333	23	1441
Paper pocket-book	C. De Quillfeldt	276,961	May 1	561	146	23	1722
Paper pocket-book	C. De Quillfeldt	289,515	Dec. 4	181	50	25	918
Paper, &c. Profile-	J. M. Goodwin	270,657	Jan. 16	1028	.....	23	217
Paper-pulp. Apparatus applicable to the manufacture of	J. W. Dixon	276,162	Apr. 24	1666	460	23	1536
Paper-pulp. Apparatus for the reduction of	J. W. Dixon	276,163	Apr. 24	1667	460	23	1536
Paper-pulp. Beating and refining engine for	J. J. Manning	282,098	July 31	2221	610	24	410
Paper-pulp. Boiler for digesting wood for	G. E. Marshall	286,031	Oct. 2	311	88	25	58
Paper-pulp-engine roll	C. S. Barton	273,801	Mar. 13	728	197	23	967
Paper-pulp engines. Roll-bar for	O. Morse	286,216	Oct. 9	532	146	25	108
Paper-pulp from sugar-cane, &c. Production of	E. C. Le Bourgeois	278,977	June 5	441	.....	23	2199
Paper-pulp. Machine for reducing wood to	J. Prickett	277,060	May 8	691	180	23	1750
Paper-pulp machines. Block-presser for wood	N. H. Brokaw	271,409	Jan. 30	1965	568	23	395
Paper-pulp machines. Block-presser for wood	N. H. Brokaw. (Reissue)	10,429	Dec. 25	2103	580	25	1275
Paper-pulp. Manufacture of	G. Archbold	274,250	Mar. 20	1294	.....	23	1072
Paper-pulp. Manufacture of	G. Archbold. (Reissue)	10,328	May 22	2217	.....	23	2027
Paper-pulp, &c. Mold for manufacturing stoppers and bungs from	C. Hemje and T. C. Brecht	279,869	June 19	1548	432 433	23	2402
Paper-pulp screen	P. H. Cragin	277,239	May 8	910	244	23	1788
Paper-roll cutter or edge-trimmer	R. Ardrey	273,244	Mar. 6	2	1	23	835
Paper. Roofing or sheathing	A. Sackett	278,278	May 22	2167	597	23	2018
Paper-sack, twine, and tea-paper case. Combined	J. C. Norris	270,687	Jan. 16	1069	306	23	294
Paper separating and folding apparatus	W. A. Wilson, G. Duncan, and G. Lander.	276,369	Apr. 24	1929	535	23	1560
Paper-stock. Method of and apparatus for treating rags for	C. F. Taylor	287,482	Oct. 30	2154	585	25	418
Paper-stock. Process of and apparatus for treating rags for	C. F. Taylor	286,503	Oct. 9	901	243 244	25	174
Paper-stock. Treating	H. Carmichael. (Reissue)	10,282	Feb. 6	529	.....	23	531
Paper, textile fabrics, &c. Machine for polishing	R. Westphal	274,685	Mar. 27	1863	519	23	1178
Paper vessel	A. R. Tiffany	279,992	June 26	1700	477	23	2435
Paper vessel. Handled	S. M. Bixby	280,010	June 26	1726	483 484	23	2440
Paper. Waxing	J. T. Bedford	273,013	Feb. 27	1812	508	23	779
Paper. Waxing	J. B. Duke	286,403	Oct. 9	786	212	25	153
Paper-waxing apparatus	J. B. Duke	286,402	Oct. 9	785	212	25	153
Paper-weight	E. F. Pflueger	279,795	June 19	1454	407	23	2386
Paper-weight, calendar, and pen-rack. Combined	J. R. King	288,065	Nov. 6	343	96	25	568

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Paper-wetting machine	J. W. Morrison	289,688	Dec. 4	392	112	25	956
Paper wheel	F. M. Mahan	290,081	Dec. 11	879	249	25	1049
Paper-winding machine	L. Dejonge, Jr.	281,034	July 10	858	239	24	159
Paper, wood pulp, &c. Machinery or apparatus to be used in the manufacture of	F. Wrigley and J. Robertson	276,989	May 1	591	155	23	1727
Paraffine, &c. Method of and apparatus for freezing	E. Kells	271,080	Jan. 23	1554	447	23	315
Paranitrobenzylidene chloride. Production of	E. Fischer	278,926	June 5	387	.....	23	2189
Parasol and fan. Combined	M. A. Montejo	286,626	Oct. 16	1066	287	25	210
Parcel-carrier	J. R. H. Hinton	287,129	Oct. 23	1707	467	25	330
Parcel-carrier	M. Lindsay	272,067	Feb. 13	601	163	23	556
Parcel-carrier	M. Lindsay	277,494	May 15	1216	326 327	23	1848
Parcel-carrier	H. H. Tobias	286,654	Oct. 16	1098	296	25	215
Parcel-carrier and elevated track for same	J. Dennis	278,226	May 22	2097	577 578	23	2007
Parcel-carrier and track	G. P. Walker	278,298	May 22	2206	605	23	2025
Parcel-carriers in stores. Speed-governor for	G. R. Elliott	284,954	Sept. 11	975	274	24	1078
Parcel-holder for elevated ways in stores	G. R. Elliott	279,727	June 19	1382	386	23	2373
Parcel-transmitter for stores	D. M. Skinner	287,182	Oct. 23	1776	487	25	342
Parer. Apple-	W. H. Boutell	286,380	Oct. 9	756	203 204	25	147
Parer. Apple-	A. B. Carter	273,255	Mar. 6	16	5	23	837
Parer. Apple-	A. B. Carter	288,974	Nov. 27	1486	412	25	791
Parer. Apple-	A. Rippien	270,845	Jan. 16	1258	362	23	261
Parer. Apple-	A. Rippien	281,559	July 17	1521	417	24	279
Parer. Apple-	L. H. Scott	278,460	May 29	2426	661	23	2072
Parer. Apple-	L. H. Scott	285,687	Sept. 25	1858	530 531	24	1249
Parer. Apple-	R. P. Scott	283,031	Aug. 14	666	187	24	626
Parer. Apple-	J. L. Wilcox	287,601	Oct. 30	2321	628	25	450
Parer. Apple-	F. R. Williams	284,935	Sept. 11	947	267	24	1073
Parer, corer, and slicer. Apple	W. M Griscom	270,585	Jan. 16	934	270	23	200
Parer, corer, and slicer. Apple	R. P. Scott	283,030	Aug. 14	665	187	24	625
Parer, corer, and slicer. Apple	C. S. and R. P. Scott	288,956	Nov. 20	1460	404	25	779
Parer, corer, and slicer. Apple	D. H. Whittemore	273,418	Mar. 6	229	62	23	873
Paring-machines. Rotary cutter for	H. Cottrell	284,823	Sept. 11	819	228	24	1049
Paris-green distributer	W. Elliott	280,157	June 26	1895	533	23	2470
Passenger-recorder. Photographic	C. W. Weiss	283,174	Aug. 14	833	233	24	654
Passenger-register	J. W. Fowler and D. F. Lewis	280,925	July 10	724	203	24	134
Passenger-register	L. A. Touchet	286,349	Oct. 9	722	193 194	25	141
Paste. Adhesive	G. Schanze and J. B. Weigman	274,979	Apr. 3	123	.....	23	1247
Paste substances into conical form. Machine for bringing	G. W. Thomas	276,096	Apr. 17	1579	435 436	23	1513
Pasting paper boxes, &c. Machine for	G. W. Glazier	280,604	July 3	319	89, 90	24	57
Pasteboard boxes. Manufacture of	L. D. Caillat	270,740	Jan. 16	1136	326	23	237
Pastry-board	D. C. Heller	271,706	Feb. 6	142	40	23	465
Pattern for cutting dress-patterns	M. S. Schafer	287,731	Oct. 30	2491	670 671	25	483
Pattern for garments. Adjustable	A. L. B. Griswold	281,056	July 10	883	246	24	163
Pattern-tracer	L. J. Purdy	284,573	Sept. 4	506	142	24	989
Patterns on goods. Device for clamping	G. A. Close	288,410	Nov. 13	791	214 215	25	653
Pavement	F. W. Bartlett	288,970	Nov. 27	1481	411	25	790
Pavement and floor	E. B. Martindale	286,321	Oct. 9	692	184	25	136
Pavement. Cement and concrete	J. W. McKnight	271,582	Jan. 30	2181	627	23	432
Pavement-foundation	R. T. Bryant and D. Tostevin	279,701	June 19	1353	377	23	2368
Pavement. Stone	F. W. Bartlett	283,369	Aug. 21	1096	308	24	709
Pavement. Stone	A. McKinley	278,031	May 22	1855	506	23	1964
Pavement. Street-	V. A. Gates and M. Levi	285,746	Sept 25	1949	551	24	1263
Pavement. Street-	J. Stommel	283,299	Aug. 14	991	277	24	684
Pavement. Wood	B. W. Bell	281,233	July 17	1118	308	24	211
Pavements. Laying	W. McLean	289,295	Nov. 27	1870	519	25	861
Pavements. Paving material for street-	E. C. Boyce	274,096	Mar. 13	1067	299	23	1028
Paving and building blocks. Machine for making	C. Diebold	287,011	Oct. 23	1556	429	25	300
Paving-block	W. T. Cutter	283,329	Aug. 14	1033	.....	24	692
Paving-block	J. T. Thomas	285,444	Sept. 25	1576	443	24	1196
Paving-block. Impervious	E. B. Martindale	289,289	Nov. 27	1863	517	25	859
Paving composition	J. G. Ketcham	277,743	May 15	1502	.....	23	1896
Paving composition	J. G. Ketcham. (Reissue)	10,414	Nov. 27	1974	.....	25	880
Paving-tool	P. S. Maloney	288,925	Nov. 20	1303	357	25	749
Pawl-and-ratchet mechanism	J. Braun	281,662	July 24	1662	453	24	308
Pea-huller	W. T. Crutchfield	273,968	Mar. 13	933	256	23	1001
Pea-separator	C. H. J. Roberts	282,373	July 31	2582	709	24	470
Pea-shelling machine	A. Swingle	288,743	Nov. 20	1208	330	25	732
Peas and beans. Machine for shelling green	G. Paci	289,699	Dec. 4	420	117 118	25	959
Peas. Machine for hulling and cleaning	J. R. Barker	273,010	Feb. 27	1809	506 507	23	778
Peanut cleaner and polisher	C. W. Nicholson	290,914	Dec. 25	1958	541	25	1253
Peat for fuel, &c. Apparatus for preparing and treating	J. B. Hyde	287,679	Oct. 30	2417	652	25	470
Peat. Machine for treating	J. B. Hyde	279,390	June 12	984	274	23	2299
Pedicycle	W. Robinson	278,185	May 22	2044	562	23	1997
Peg-cutter	A. Hauck	275,648	Apr. 10	1026	277	23	1409
Peg-float	W. H. Miller	275,687	Apr. 10	1070	292	23	1417
Pegging-machine	A. Eppler, Jr.	269,840	Jan. 2	26	8	23	7
Pen and holder. Writing-	J. G. Hester	278,239	May 22	2115	583	23	2010
Pen and pencil. Combined	R. M. Collard	270,746	Jan. 16	1144	327	23	238
Pen and pencil holder	T. W. F. Smitten	274,836	Mar. 27	2036	567	23	1209
Pen and pencil rack	F. F. Dumke	271,817	Feb. 6	2-3	77	23	491
Pen. Fountain-	J. Carr	288,010	Nov. 6	283	80	25	556
Pen. Fountain-	S. W. Higgins	271,455	Jan. 30	2023	584	23	405

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pen. Fountain	F. Holland	276,692	May 1	203	52	23	1659
Pen. Fountain	L. S. Lewis	272,066	Feb. 13	600	162	23	556
Pen. Fountain	J. B. Mitchell	284,318	Sept. 4	196	55	24	938
Pen. Fountain	J. S. Purdy	279,104	June 5	616	168	23	2228
Pen. Fountain	J. H. Shields	287,060	Oct. 23	1621	446	25	313
Pen. Fountain	J. E. Tegardine	278,201	May 22	2068	570	23	2002
Pen. Fountain	H. A. Walke	274,679	Mar. 27	1857	517	23	1177
Pen. Fountain	P. E. Wirt	288,296	Nov. 13	619	170	25	624
Pen fountain attachment	T. and L. A. Hawkes	275,825	Apr. 17	1255	345	23	1456
Pen-holder	R. S. Cutting and H. A. Spencer	285,578	Sept. 25	1728	489	24	1225
Pen-holder	E. Fischer	278,697	June 5	27	8	23	2129
Pen-holder	D. Hepp	276,399	Apr. 24	1969	545	23	1587
Pen-holder	J. G. Hester	276,535	Apr. 24	2136	594	23	1616
Pen-holder	J. Reckendorfer	286,066	Oct. 2	353	99	25	65
Pen-holder	P. Schrag	273,615	Mar. 6	480	129	23	916
Pen holder and cleaner. Combined	C. Goodwin	283,389	Aug. 21	1115	315	24	713
Pen-holder. Fountain	C. T. Shafer	279,025	June 5	505	137	23	2309
Pen-holder. Fountain	W. Vale	290,820	Dec. 25	1848	511 512	25	1234
Pen-holder. Quill	T. O'Donnell	271,107	Jan. 23	1581	455	23	399
Pen. Mechanical	I. Henestrosa	270,061	Jan. 2	276	80, 81	23	56
Pen or pencil holder	W. Lane	281,525	July 17	1483	407	24	273
Pen-rack	R. Charles	277,003	May 8	615	161	23	1737
Pen-rack	S. Ustick	282,936	Aug. 7	543	153	24	597
Pen. Stylographic	J. McKenzie	281,903	July 24	1980	542	24	363
Pen. Stylographic	E. B. Nimmo	284,569	Sept. 4	500	140	24	988
Pen. Stylographic	F. J. Seybold	272,161	Feb. 13	716	197	23	575
Pen. Stylographic fountain	J. Holland	275,912	Apr. 17	1359	374	23	1475
Pen. Stylographic fountain	M. H. Kerner	280,630	July 3	349	97	24	62
Pen. Stylographic fountain	M. H. Kerner and C. L. Downes	276,425	Apr. 24	1999	554	23	1592
Pen. Stylographic fountain	E. W. Morton	277,149	May 8	810	213	23	1771
Pen-support and hand-rest	L. D. Heller	281,876	July 24	1943	531	24	357
Pens. Apparatus for supply of ink to	G. R. Hughes and T. Carwardine	281,998	July 24	2086	572	24	392
Pens. Machine for cutting and forming ruling	W. C. Demain	274,732	Mar. 27	1911	534	23	1187
Pencil	J. Hoffman	270,567	Jan. 9	910	262	23	187
Pencil	R. Lockwood	270,959	Jan. 23	1408	405	23	291
Pencil-case	R. M. Collard	287,907	Nov. 6	146	43	25	533
Pencil-case	W. S. Hicks and H. Isley	280,313	June 26	2088	587	23	2504
Pencil-case	J. Holland	279,388	June 12	983	273	23	2299
Pencil-case	J. H. Knapp	271,872	Feb. 6	345	95	23	501
Pencil case. Lead	W. E. Gard	276,800	May 1	347	93	23	1687
Pencil-clasp	J. F. Foster	273,268	Mar. 6	29	9	23	839
Pencil-clasp	S. Wales	289,476	Dec. 4	126	36	25	909
Pencil-fastener	J. F. Webster	276,512	Apr. 24	2105	585	23	1611
Pencil-holder	A. T. Cwerdinski	289,392	Dec. 4	24	8	25	891
Pencil-holder	B. Eybel	271,439	Jan. 30	2003	578	23	402
Pencil-holder	C. H. Hilliard and W. C. Green	273,277	Mar. 6	39	12	23	841
Pencil-holder	L. O. Hull	287,400	Oct. 23	2048	557	25	390
Pencil-holder	E. Tyrrell	290,291	Dec. 18	1139	320	25	1103
Pencil. Lead	G. L. Jaeger	272,700	Feb. 20	1406	394	23	701
Pencil or crayon holder	J. S. Birch	276,659	May 1	148	38	23	1651
Pencil or crayon holder	B. A. Fiske	272,948	Feb. 27	1740	486	23	765
Pencil or crayon holder	F. Hardtmuth	276,812	May 1	360	96	23	1689
Pencil or crayon holder	E. S. Johnson	290,988	Dec. 25	2069	569	25	1270
Pencil-pointer	W. N. Bartholomew	288,156	Nov. 6	444	125	25	595
Pencil-sharpener	W. K. Foster	290,564	Dec. 18	1517	417	25	1169
Pencil sharpener. Slate	W. P. Kirkland	285,757	Sept. 25	1959	555	24	1265
Pencil sharpener. Slate	G. C. Price and G. W. F. Cook	284,326	Sept. 4	208	58	24	939
Pencil-sharpening machine	B. Williams	282,823	Aug. 7	416	117	24	574
Pencils. Manufacture of lead	P. E. Gonon	277,707	May 15	1463	395	23	1889
Pendant	J. H. Knapp	286,545	Oct. 9	954	257	25	184
Pendulum	C. S. Lewis	290,186	Dec. 11	998	281	25	1071
Pendulum	O. C. Retsloff	272,978	Feb. 27	1772	496	23	771
Pendulum. Compensating	A. S. Crane	288,027	Nov. 6	301	85	25	558
Pendulum. Compensating	F. A. Mills and T. A. Mossop	279,176	June 12	712	194	23	2255
Pendulum. Compensation	D. Shive	279,828	June 19	1497	418	23	2393
Pendulum. Compensation	A. T. Williams. (Reissue)	10,425	Dec. 11	1013	285	25	1074
Pendulum-escapement	C. O. White	284,788	Sept. 11	784	218	24	1042
Pepper and salt box and napkin-ring. Combined	F. Ratcliff	279,806	June 19	1467	411	23	2288
Pepper cruet and mill	G. D. Barr	274,255	Mar. 20	1302	358	23	1073
Pepsin. Manufacture of	C. L. Jensen	286,138	Oct. 2	439	.....	25	82
Perambulator	T. F. Simmons	281,933	July 24	2012	551	24	370
Perambulators. Canopy-top for	H. Eichling and A. S. Fitch	281,675	July 24	1679	457	24	311
Perch and parasite-trap. Combined	J. Bagot	273,434	Mar. 6	251	68	23	877
Percolator	E. W. Carter and D. R. Smith	288,547	Nov. 13	953	262	25	681
Percolator. Druggist's	E. L. Slocum	278,284	May 22	2173	598	23	2019
Perforating-machine	A. Partridge	290,102	Dec. 11	899	256	25	1053
Perforator	T. M. Foote	270,213	Jan. 9	461	134 135	23	101
Perfumery-stand	A. Wanner	289,586	Dec. 4	268	75	25	935
Permutation-lock	W. S. Chedister	273,466	Mar. 6	292	80	23	883
Permutation-lock	C. E. Lee	275,673	Apr. 10	1053	286	23	1414
Permutation-lock	O. E. Pillard	270,114	Jan. 2	329	97	23	67
Permutation-lock	R. Sarlls and V. C. Holland	276,081	Apr. 17	1557	429	23	1509
Permutation-lock	R. Sarlls and V. C. Holland	276,477	Apr. 24	2062	572	23	1603
Permutation-lock	J. W. Schoonmaker	272,982	Feb. 27	1776	497	23	771
Permutation-lock	R. Schuetze	288,871	Nov. 20	1356	372	25	759
Permutation-lock	L. F. Whitney and T. K. Keith	279,298	June 12	851	236	23	2278
Pessary	C. Rahn	273,603	Mar. 6	468	126	23	914
Pessary	W. W. Turver	288,140	Nov. 6	428	120	25	582
Pessary. Stem	G. W. Lutz	277,424	May 8	1124	302	23	1826
Pestle-handle	G. Maris	278,575	May 29	2558	698	23	2096
Petroleum. Apparatus for vaporizing and burning	G. W. McAllister	272,287	Feb. 13	870	243	23	603
Petroleum. Apparatus for vaporizing and burning	D. M. Graham	276,578	May 1	46	14	23	1635

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Petroleum-jelly. Process of and apparatus for preparing	E. D. Kendall	284,437	Sept. 4	338	94	24	960
Phonograph	C. C. Reynolds	287,166	Oct. 23	1752	480 481	25	338
Phosphates of iron and alumina. Treating	A. H. Koefoed and T. B. Stillman	281,635	July 17	1619	.....	24	295
Phosphates. Preparation and production of mineral	J. J. Knight	276,143	Apr. 17	1638	.....	23	1523
Phosphatic slags for manure, &c. Treating	G. Rocour	284,674	Sept. 11	634	.....	24	1017
Phosphorus and iron of forge-cinder. Utilizing the	J. Reese	278,737	June 5	78	.....	23	2137
Phosphorus and steel scrap in the basic process. Utilizing	J. Reese	285,431	Sept. 25	1561	.....	24	1194
Photo-micrographic camera	P. Prado	274,515	Mar. 27	1664	462	23	1142
Photograph-embossing device	F. B. Clench	269,830	Jan. 2	15	5	23	5
Photograph-frame. Extension	W. E. Goodenough	270,785	Jan. 16	1190	343	23	247
Photographers' backgrounds, &c. Apparatus for changing and storing	W. E. Lindop	281,532	July 17	1491	409 410	24	275
Photographer's camera-plate holder	F. G. and A. C. Sargent	289,029	Nov. 27	1555	429	25	802
Photographer's chair	W. S. Liscomb	282,737	Aug. 7	321	92	24	556
Photographer's eye-rest and screen. Combined	T. De Codezo	270,401	Jan. 9	695	205	23	145
Photographers. Machine for packing dry-plates for	P. H. Wheeler	282,939	Aug. 7	548	155	24	598
Photographer's retouching-point. Electric	J. T. Burke	285,008	Sept. 18	1052	294 295	24	1098
Photographic camera	S. V. Allen	274,079	Mar. 13	1068	294	23	1025
Photographic camera	M. Flammang	278,788	June 5	152	45	23	2148
Photographic camera	M. Flammang	283,589	Aug. 21	1351	378	24	757
Photographic camera	B. W. Kilburn	286,447	Oct. 9	837	227	25	163
Photographic camera	G. S. North	276,455	Apr. 24	2036	565	23	1509
Photographic camera	W. Schmid	270,133	Jan. 2	358	104	23	73
Photographic camera	W. Thomas	272,173	Feb. 13	728	201	23	578
Photographic camera	W. H. Walker	276,311	Apr. 24	1845	514	23	1566
Photographic camera-box	E. B. Barker	272,622	Feb. 20	1310	365 366	23	684
Photographic camera-box	E. B. Barker	283,952	Aug. 28	1797	508	24	850
Photographic camera. Folding	G. F. E. Pearsall	275,073	Apr. 3	252	70	23	1269
Photographic-camera shutter	D. M. Little	284,645	Sept. 11	592	167	24	1010
Photographic-camera stand	M. Flammang	282,182	July 31	2348	647	24	429
Photographic cameras. Plate-holder for	J. Barnett	271,402	Jan. 30	1956	565	23	393
Photographic cameras. Plate-holder for	M. Flammang	271,826	Feb. 6	291	80	23	492
Photographic cameras. Plate-holder for	M. Flammang	280,166	June 26	1903	536	23	2472
Photographic cameras. Plate-holder for	W. H. Lewis	272,717	Feb. 20	1425	399	23	704
Photographic cameras. Pneumatic shutter for	H. B. Perry	287,858	Nov. 6	80	24	25	521
Photographic developing pan or tray	W. I. Adams	289,951	Dec. 11	718	203	25	1019
Photographic dry-plate holder	G. F. E. Pearsall	287,857	Nov. 6	78	24	25	521
Photographic dry-plates. Box for	E. Klauber	290,587	Dec. 18	1539	423	25	1172
Photographic exposing apparatus	R. Schlotterhoss	284,073	Aug. 28	1962	547	24	877
Photographic negatives. Machine for retouching	J. Densmore	290,217	Dec. 18	1048	294 295	25	1088
Photographic pictures. Finishing	N. L. Stone	286,343	Oct. 9	716	192	25	140
Photographic-plate holder	E. L. Bergstresser	281,660	July 24	1659	452	24	307
Photographic-plate holder	F. W. Jackson	277,737	May 15	1495	406	23	1895
Photographic-plate holder	M. W. Newcomb	282,756	Aug. 7	341	97	24	560
Photographic plates. Apparatus for washing	H. C. Price	276,875	May 1	438	117	23	1703
Photographic plates. Case for transporting	H. T. Anthony	283,455	Aug. 21	1195	336	24	728
Photographic printing	R. B. West	273,206	Feb. 27	2050	.....	23	821
Photographic shield	E. B. Barker	273,008	Feb. 27	1807	506	23	777
Photographing changing or moving objects. Method of and apparatus for	E. J. Muybridge	279,878	June 19	1557	435 436	23	2404
Photographs. Coloring	J. W. Hyman	273,995	Mar. 13	963	.....	23	1007
Photographs. Coloring	C. L. Wright	290,655	Dec. 18	1623	.....	25	1187
Photographs. Process of and apparatus for coloring	J. Chaine, A. Durand, and F. S. De Chaligny.	271,789	Feb. 6	248	69	23	484
Phylloxera. Destruction of	B. Casanova	271,036	Jan. 23	1492	.....	23	305
Physician's portable case	S. J. Steiner	284,083	Aug. 28	1976	550	24	880
Piano	D. McCarthy and G. R. Davis	276,258	Apr. 24	1778	495	23	1555
Piano-action	I. Bullard	290,527	Dec. 18	1465	405	25	1160
Piano-action	R. E. Letton	290,692	Dec. 25	1677	462	25	1902
Piano-action	C. F. T. Steinway	270,914	Jan. 23	1346	388	23	282
Piano-actions. Pivot-joint for	F. L. Becker	285,785	Oct. 2	7	3	25	4
Piano attachment	L. Alexander	277,824	May 15	1598	437	23	1914
Piano case. Upright	P. Gmehlin	286,425	Oct. 9	811	220	25	158
Piano cover. Upright	T. F. Kraemer	270,443	Jan. 9	750	220	23	155
Piano-forte	W. Fischer	275,759	Apr. 10	1165	319	23	1433
Piano-forte action	J. Mallinson	270,322	Jan. 9	589	173 174	23	125
Piano-keys, &c. Composition for covering	W. F. Rikeman	271,120	Jan. 23	1595	459	23	322
Piano-keys. Machine for smoothing	J. Kitz	272,140	Feb. 13	695	190	23	572
Piano music-rack	L. Soule	277,951	May 22	1752	478	23	1946
Piano-panel protector	E. J. Pasmore and C. Y. McClure	289,130	Nov. 27	1676	465	25	824
Piano-pedal attachment	E. H. Plowe	283,019	Aug. 14	655	185	24	624
Piano-pedal stool	W. Winter	290,163	Dec. 11	971	274	25	1066
Piano sounding-board	J. Diehl	280,362	July 3	29	8	24	7
Piano sounding-board	R. A. Murray	290,090	Dec. 11	889	252	25	1050
Piano-strings. Spinning-lathe for winding	F. Ramacciotti	280,512	July 3	215	56.57	24	39
Pianos. Stringing	A. J. Gillespie	275,818	Apr. 17	1247	343	23	1455
Pianos. Stringing	H. C. Richards	280,953	July 10	765	212	24	140
Pianos. Stringing	J. P. Richardson	281,794	July 24	1842	504	24	339
Pianos. Stringing	C. F. Southack	279,454	June 12	1057	292	23	2311
Pianos. Stringing	L. C. Therrien	288,279	Nov. 13	609	167	25	622
Pick	W. Cook	271,797	Feb. 6	255	71	23	485
Pick	J. C. Cramer	272,661	Feb. 20	1361	382	23	693
Pick	W. C. Ferguson, G. D. Grismore, and W. M. Wetherill.	285,804	Oct. 2	26	9	25	7
Pick	W. A. Wright	277,183	May 8	850	225	23	1777
Pick	W. A. Wright	286,986	Oct. 16	1522	419	25	288
Pick. Miner's	S. Herron	286,815	Oct. 16	1301	354	25	251

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Pick. Miner's	H. F. Seybert	271,929	Feb. 6	421	115	23	514
Picker: *See* Cotton-picker. Shoddy-picker. Fruit-picker.							
Picker	M. Brazeau	272,118	Feb. 13	670	183	23	568
Picker or opener for fibrous materials	C. L. Goddard	288,327	Nov. 13	673	185	25	632
Picket-pointing machine	W. G. Hatcher	285,033	Sept. 18	1068	304	24	1104
Pickle-jar fork attachment	C. De Quillfeldt	277,467	May 15	1184	318	23	1843
Picture-bracket	C. Megow	280.057	June 26	1786	501	23	2450
Picture-exhibitor	J. L. and F. W. Bassett, and A. E. Hutchins.	280,556	July 3	262	71	24	47
Picture-exhibitor	H. S. Sanderson and E. B. Simmons	279,504	June 12	1116	308	23	2390
Picture-exhibitor	M. Schleissner	281,143	July 10	992	277	24	182
Picture-exhibitor. Revolving	A. Nelson	281,914	July 24	1990	545	24	365
Picture-frame	E. G. Miller	273,378	Mar. 6	185	50	23	865
Picture-frame	P. Parrett	276,624	May 1	97	26	23	1644
Picture-frame corner	T. D. Worrall	269,907	Jan. 2	100	30	23	21
Picture-frame hanger	C. F. Sleeper	285,517	Sept. 25	1659	406	24	1212
Picture-frame holder	A. J. Weaver	282,427	July 31	2633	728	24	483
Picture-frame molding	J. Moore	284,316	Sept. 4	195	55	24	937
Picture-frame protective pad	G. S. Hazard	280,818	July 10	600	168	24	112
Picture-frames. Constructing	T. C. Vail	286,872	Oct. 16	1373	376	25	263
Picture-hanger	S. B. Ellithorp	287,113	Oct. 23	1691	463	25	327
Picture-hanger	A. Kluge	271,715	Feb. 6	153	42	23	467
Picture-mat-cutting machine	E. L. Gaylord	286,422	Oct. 9	808	219	25	157
Picture-mount	S. A. Jackson	288,060	Nov. 6	338	94	25	565
Picture mounts and frames. Manufacturing	C. A. Wright	275,316	Apr. 3	553	151	23	1320
Picture. Sectional	A. Operti	279,976	June 26	1682	472	23	2432
Picture. Sliced	W. Stranders	280,878	July 10	668	188	24	125
Pictures. Device for copying and enlarging	L. A. Hagan	275,822	Apr. 17	1253	344	23	1455
Pie-plate	W. Parsons	274,219	Mar. 20	1256	346	23	1065
Pier or ferry rack	H. Case	288,308	Nov. 13	641	176	25	628
Pigment. Manufacture of a white	C. F. Claus	272,375	Feb. 13	977	.....	23	622
Pigment. White	J. B. Freeman	286,918	Oct. 16	1425	.....	25	273
Pile-driver	R. J. Cram	284,282	Sept. 4	155	43	24	930
Pile-driver	J. Roy	278,603	May 29	2589	707	23	2101
Pile-driver	J. P. Seawell	280,407	July 3	83	22	24	17
Pile-driver. Hydraulic	J. W. Surprenant and J. E. Ferguson	283,300	Aug. 14	991	277	24	685
Pile-driver. Steam	T. M. Skinner	273,904	Mar. 13	856	232	23	988
Pile. Iron	R. Gray and B. R. Abbott	272,426	Feb. 20	1063	299	23	640
Pile. Iron and steel	W. G. Howell	271,637	Feb. 6	66	18	23	452
Pill-machine	J. Brooks	290,524	Dec. 18	1560	403 404	25	1158
Pile of combined iron and steel	W. G. Howell	281,366	July 17	1285	356	24	239
Piles. Preserving and protecting	D. H. Valentine	282,807	Aug. 7	397	112	24	570
Pill-coating machine	G. F. Chappell	281,973	July 24	2061	565	24	377
Pills. Machine for coating	C. C. Wells	273,328	Mar. 6	114	33	23	853
Pills. Self-feeding machine for coating	G. F. Chappell	272,207	Feb. 13	772	214	23	585
Pills with gelatine. Machine for coating	W. C. Franciscus	276,385	Apr. 24	1952	540	23	1584
Pills with gelatine. Machine for coating	G. W. Platt	278,456	May 29	2422	660	23	2072
Pillow	J. E. Everiss	273,974	Mar. 13	939	258	23	1002
Pillow-block	J. B. Pitchford	283,657	Aug. 21	1424	399	24	771
Pillow, bolster, or mattress	A. Weigell	276,650	May 1	131	35	23	1649
Pillow. Dress	G. W. Thompson	274,673	Mar. 27	1849	515	23	1176
Pillow-sham holder	J. A. Fordon	282,185	July 31	2350	647	24	429
Pillow-sham holder	W. G. Foster	276,574	May 1	39	11	23	1634
Pillow-sham holder	M. Harris	278,705	June 5	38	11	23	2131
Pillow-sham holder	J. H. Miller	278,581	May 29	2562	690	23	2006
Pillow-sham holder	S. R. S. Ufford	288,515	Nov. 13	920	252	25	675
Pillow-sham holder and mosquito-bar	W. E. Davis	270,578	Jan. 16	926	268	23	198
Pillow-sham support	E. J. Rawlings	269,880	Jan. 2	66	20	23	15
Pillow-sham supporter and lifter	W. F. Parker	279,978	June 26	1684	473	23	2432
Pillow. Spring	R. Kershner	283,616	Aug. 21	1379	385	24	762
Pillow. Water or air	W. E. Fitch	283,767	Aug. 28	1574	445	24	811
Pin: *See* Blanket-pin. Button-pin. Clasp pivot-pin. Clothes-pin. Curtain-pin. Hair-pin. Printing-press gage-pin. Rolling-pin. Safety-pin. Spring-pin. Steam-engine crank-pin. Tuning-pin.							
Pin	B. A. Ballou	287,086	Oct. 23	1654	454	25	319
Pin and stud	G. W. McGill	285,641	Sept. 25	1808	515	24	1240
Pincushion	F. Ratcliff	279,807	June 19	1468	412	23	2389
Pin for neck-wear shields	J. T. Lynch	275,234	Apr. 3	451	125	23	1303
Pin-package	V. Fountain	271,828	Feb. 6	294	80	23	493
Pin safety-catch	G. W. Washburn	288,897	Nov. 20	1388	383	25	765
Pins for brooches. Die for forming the heads of	S. Moore	290,912	Dec. 25	1956	540	25	1222
Pinchers	E. and J. Brothers	278,680	June 5	6	2	23	2126
Pinchers for setting box-corners	C. H. Olson	278,262	May 22	2151	591	23	2015
Pinking-machine	D. W. Odiorne and E. Brosemann	288,847	Nov. 20	1329	364	25	754
Pipe: *See* Sheet-metal pipe. Smoking-pipe. Soil and waste pipe. Stand-pipe. Stove-pipe. Telegraph-cable pipe. Tobacco-pipe. Water, gas, and drain pipe. Water-tank feed-pipe.							
Pipe and conduit for conveying liquids, &c	S. M. Allen	284,794	Sept. 11	788	220	24	1043
Pipe and hose coupling	J. A. Perrottet	285,157	Sept. 18	1236	348	24	1129
Pipe-bending machine	J. M. Evarts	275,029	Apr. 3	198	53	23	1259
Pipe-clamp	H. M. Dixon	288,035	Nov. 6	310	87	25	560
Pipe-clearer	J. Clark	283,205	Aug. 14	876	244	24	663
Pipe connection. Ball and expansion	W. G. Abel	290,196	Dec. 18	1018	287	25	1063
Pipe-coupling	F. Baumann	272,191	Feb. 13	750	207	23	562

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pipe-coupling	M. M. Camp	283,072	Aug. 14	712	200	24	634
Pipe-coupling	A. H. Emery	279,087	June 5	584	159	23	2223
Pipe-coupling	T. P. Hardy	282,312	July 31	2500	687	24	456
Pipe-coupling	E. S. Leaycraft	279,575	June 19	1208	334	23	2343
Pipe-coupling	R. McConnell	290,446	Dec. 18	1350	373	25	1139
Pipe-coupling	G. Russell and R. W. Gordon	284,146	Aug. 28	2060	571	24	894
Pipe-coupling	J. Walter	284,096	Aug. 28	1991	555	24	883
Pipe-coupling	L. Zistel	284,350	Sept. 4	234	65	24	944
Pipe coupling. Air-	C. L. Hobbs	278,961	June 5	427	117	23	2196
Pipe-coupling for water and gas pipes and mains	F. Doherty	284,285	Sept. 4	157	43	24	931
Pipe-coupling. Reducing	T. P. Hardy	290,045	Dec. 11	838	237	25	1041
Pipe-cutter	E. F. Barnes	282,435	July 31	2669	731	24	486
Pipe-cutter	E. F. Barnes	287,899	Nov. 6	139	41	25	532
Pipe-cutter	I. Kinney	271,250	Jan. 30	1752	507	23	357
Pipe-cutter	J. Miller	274,631	Mar. 27	1798	500	23	1167
Pipe-cutter	C. C. Walworth	279,207	June 12	742	204	23	2260
Pipe cutter and tongs	J. W. Calef	272,526	Feb. 20	1185	331	23	662
Pipe cutting and threading machine	J. B. Douglas	273,348	Mar. 6	141	39, 40	23	857
Pipe-cutting machine	J. L. Truax	282,473	July 31	2708	745, 746	24	492
Pipe-elbow. Sheet-metal	A. F. Peters	272,764	Feb. 20	1487	418	23	715
Pipe fitting and threading machine	A. L. Rose	284,904	Sept. 11	909	256	24	1067
Pipe-flanges. Machine for drilling	Z. E. Coffin	272,857	Feb. 27	1626	455	23	747
Pipe-flanges. Machine for turning	Z. E. Coffin	283,376	Aug. 21	1102	310, 311	24	711
Pipe-flanging machine	R. C. Nugent	286,569	Oct. 9	986	265, 266	25	189
Pipe into sections. Apparatus for cutting sewer-	R. W. Lyle	272,727	Feb. 20	1440	404	23	707
Pipe-joint	A. H. Emery	279,086	June 5	583	159	23	2223
Pipe-joint	J. Kline	278,800	June 5	168	49	23	2151
Pipe-joint. Earthenware	J. S. Tibbals	285,179	Sept. 18	1262	354	24	1134
Pipe-joint ferrule	J. F. Sullivan	278,061	May 22	1885	516	23	1970
Pipe-joint. Flexible	M. Walker	275,098	Apr. 3	288	79	23	1276
Pipe-joints. Device for filling	T. Watkins	274,868	Mar. 27	2083	578	23	1215
Pipe. Machine for shaping and riveting spiral	J. B. Root	283,923	Aug. 28	1755	495, 496	24	841
Pipe-making. Forming molds and cores in	F. Shickle	289,035	Nov. 27	1561	431	25	803
Pipe. Manufacture of	W. Ireton	273,738	Mar. 13	643	171	23	952
Pipe-mold	F. Shickle	289,034	Nov. 27	1561	431	25	803
Pipe. Mold for making cement	N. W. Stowell	270,704	Jan. 16	1092	312	23	228
Pipe. Molding apparatus for the manufacture of	W. Ireton and S. E. Whitelock	278,663	May 29	2667	730	23	2114
Pipe-molding machine	F. Shickle	289,036	Nov. 27	1565	432	25	804
Pipe-nipple holder	I. M. Jones	289,419	Dec. 4	56	16	25	896
Pipe or hose coupling	W. F. Cassedy	285,732	Sept. 25	1927	546	24	1260
Pipe or nut wrench	D. P. Foster	282,298	July 31	2487	683	24	454
Pipe-threading machine	J. E. Sanders	286,333	Oct. 9	705	187, 188	25	138
Pipe-wrench	S. A. Bostwick	271,595	Feb. 6	12	3	23	442
Pipe-wrench	F. Cajar	270,741	Jan. 16	1137	326	23	237
Pipe-wrench	A. W. Case	280,793	July 10	574	160	24	108
Pipe-wrench	G. W. Cook	283,378	Aug. 21	1106	312	24	711
Pipe-wrench	J. P. Haigh	272,955	Feb. 27	1746	488	23	766
Pipe-wrench	E. H. Robbins	282,372	July 31	2581	708	24	470
Pipe-wrench	F. A. Simonds	282,126	July 31	2276	625	24	418
Pipe-wrench	J. L. Taylor	287,193	Oct. 23	1789	491	25	344
Pipe-wrench	J. J. Tower	280,099	June 26	1835	516	23	2459
Pipe-wrench	C. D. Volkmann	289,188	Nov. 27	1747	486	25	836
Pipe-wrench	H. B. Williams	275,106	Apr. 3	297	82	23	1277
Pipes. Conduit for street-	E. Wenigmann	285,328	Sept. 18	1427	403	24	1165
Pipes. Laying underground	T. Hibbard	289,000	Nov. 27	1515	419	25	796
Pipes. Machine for lining water or other	G. W. Pearsons	274,138	Mar. 20	1149	317	23	1046
Pipes. Manufacture of coiled metallic	A. D. Brock	276,763	May 1	306	79	23	1678
Pipes of concrete. Apparatus for forming underground	W. M. Campbell	272,410	Feb. 20	1043	292	23	637
Piping	M. H. Merriam	270,965	Jan. 23	1414	407	23	292
Piping	S. S. Spear	285,850	Oct. 2	87	26	25	18
Piping. Notching device for	M. H. Merriam	270,967	Jan. 23	1416	407	23	293
Piston	S. Maltby	277,305	May 8	988	265, 266	23	1802
Piston	W. Rowan	273,161	Feb. 27	1998	562	23	811
Piston-engine. Oscillating	O. H. Venner	280,974	July 10	789	219	24	145
Piston engine. Rocking-	G. R. Winkler	277,648	May 15	1398	376, 377	23	1878
Piston for steam and other engines	A. MacLaine	288,082	Nov. 6	363	101	25	569
Piston-head spring	G. W. Williams	291,009	Dec. 25	2095	577	25	1274
Piston-rods from cross-heads. Device for removing	J. E. Worswick	282,828	Aug. 7	421	119	24	575
Pitch-fork attachment	F. H. Marshall	273,568	Mar. 6	429	115	23	908
Pitcher. Ice-	H. Bullard	274,263	Mar. 20	1311	362	23	1075
Pitcher. Sirup-	W. C. Caldwell	280,012	June 26	1728	484	23	2440
Pitcher-stand	W. H. Fitz Gerald	282,875	Aug. 7	481	135	24	585
Pitchers. Rest for ice-	J. Brauer	290,520	Dec. 18	1456	402	25	1158
Pitman	E. Huber and F. Strobel	286,008	Oct. 2	281	79	25	53
Pitman. Ball-	G. F. Messinger	278,812	June 5	181	53	23	2153
Pitman-box	D. F. Oliver	289,779	Dec. 4	503	139	25	974
Pitman-connection for mowers, &c	W. Gause	286,603	Oct. 16	1034	280	25	204
Pitman-coupling	A. and J. Wolf	275,560	Apr. 10	908	246	23	1389
Pitmen off dead-centers. Spring for keeping	C. A. Van Allen	287,485	Oct. 30	2158	586	25	419
Pits or shafts. Apparatus employed in sinking	I. Quinet and A. Denis	284,895	Sept. 11	897	253	24	1064
Pivot-joint. Adjustable	H. N. Low	283,907	Aug. 28	1735	490	24	837
Plaiting and scalloping device. Combined	J. S. Sackett	279,820	June 19	1483	416	23	2391
Plaiting device	E. L. Smith	290,129	Dec. 11	936	265	25	1060
Plaiting-machine	W. Duchemin	288,929	Nov. 20	1425	392, 393	25	773
Plaiting-machine	B. Frese	275,760	Apr. 10	1166	320	23	1433

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Plaiting-machine	W. R. Hallett	285,030	Sept. 18	1084	303	24	1104
Plaiting-machine	M. W. Jenks	270,568	Jan. 9	911	263	23	187
Plaiting-machine	M. A. Maybee	273,296	Mar. 6	68	20	23	646
Plane	F. L. Bailey	286,894	Oct. 16	1404	385	25	268
Plane	H. B. Beach	287,612	Oct. 30	2341	632	25	454
Plane	S. R. and A. E. Rust	287,584	Oct. 30	2297	621	25	446
Plane. Bench-	L. Bailey	285,546	Sept. 25	1694	478	24	1219
Plane. Bench-	D. A. Bridges	271,509	Jan. 30	2167	624	23	430
Plane. Bench-	J. Campbell	271,219	Jan. 30	1721	498	23	351
Plane. Bench-	J. Campbell. (Reissue)	10,394	Oct. 23	2049	557	25	390
Plane. Bench-	D. M. Fielding	277,556	May 15	1292	347	23	1860
Plane. Bench-	A. T. Goldsborough	284,732	Sept. 11	709	198	24	1030
Plane. Bench-	F. A. Mershon	277,767	May 15	1540	418	23	1903
Plane. Bench-	S. R. and A. E. Rust	279,885	June 19	1564	438	23	2405
Plane. Bench-	J. Siegley	269,967	Jan. 2	173	50	23	36
Plane. Bench-	J. Siegley	269,968	Jan. 2	173	50	23	36
Plane. Bench-	W. Steers	284,919	Sept. 11	930	262	24	1070
Plane. Bench-	L. C. Strong	275,538	Apr. 10	879	238	23	1384
Plane. Bench-	L. C. Strong	275,539	Apr. 10	881	238	23	1384
Plane. Cavity-	J. England	270,769	Jan. 16	1169	334	23	243
Plane. Joiner's	H. B. Beach	289,332	Nov. 27	1920	533	25	871
Plane. Joiner's	W. B. Fenn	287,371	Oct. 23	2013	547	25	384
Plane. Joiner's	S. R. and A. E. Rust	288,866	Nov. 20	1350	370	25	758
Plane. Match-	P. Hickey	280,175	June 26	1912	537	23	2473
Plane. One-hand	L. G. Gilson	288,226	Nov. 13	538	149	25	611
Plane. Rabbet-	J. M. Bennett	284,941	Sept. 11	959	269	24	1075
Plane. Rabbet-	O. Hegglund	274,600	Mar. 27	1769	490	23	1161
Plane. Recess-	H. L. Tupper	272,801	Feb. 20	1534	431	23	724
Plane. Stop chamfer	J. Lee	272,274	Feb. 13	857	239	23	601
Planer. Iron-	G. E. Brettell. (Reissue)	10,410	Nov. 27	1969	547	25	878
Planer. Metal	H. Bilgram	289,607	Dec. 4	293	82	25	939
Planer. Metal-	J. S. Detrick	278,518	May 29	2403	681	23	2085
Planers. Driving device for metal-	L. T. Pyott	273,150	Feb. 27	1984	558	23	809
Planers. Tool-stock for iron-	W. Gleason	280,812	July 10	592	165	24	111
Planescope	W. W. Rupert	279,439	June 12	1042	289	23	2309
Planing and sawing machine	T. J. Glousier	287,019	Oct. 23	1571	433	25	303
Planing-machine	J. M. Cook and J. S. Perkins	274,886	Mar. 27	2103	585, 586	23	1219
Planing-machine	H. J. Cordesman, Jr., and J. R. Thomas.	275,597	Apr. 10	948	257	23	1396
Planing-machine	A. P. Croque	274,565	Mar. 27	1722	478	23	1153
Planing-machine	R. B. Jones	278,338	May 29	2276	622	23	2045
Planing-machine cutter	L. O. Orton	286,630	Oct. 16	1071	288	25	210
Planing-machine feed-roller	A. V. Cross	280,720	July 3	457	131	24	82
Planing machine. Metal-	A. B. Bean	272,192	Feb. 13	750	207	23	582
Planing machine. Metal-	F. B. Miles	273,873	Mar. 13	823	223	23	983
Planing machine. Metal-	F. B. Miles	275,242	Apr. 3	459	128	23	1305
Planing-machine presser-bar	G. E. Newall	273,587	Mar. 6	451	121	23	912
Planing-machine sawing attachment	J. Witmer	288,147	Nov. 6	436	123	25	584
Planing-machine table	L. O. Orton	288,729	Nov. 20	1193	325	25	729
Planing the beveled ends of moldings. Machine for	E. L. Gaylord	286,421	Oct. 9	807	218, 219	25	156
Planing wheel-fellies. Machine for	W. H. Doane and G. W. Bugbee	285,587	Sept. 25	1741	492, 493, 494	24	1227
Planking and pavement	S. T. Williams	276,545	Apr. 24	2147	597, 598	23	1618
Planometer or measuring parallel ruler	A. Wachs	287,200	Oct. 23	1800	493, 494	25	345
Plant and tree guard	J. T. Wallace	283,837	Aug. 28	1655	467	24	824
Plant-protector	A. G. and L. H. Macomb	288,251	Nov. 13	571	159	25	616
Plant-protector	A. Thalheimer	273,911	Mar. 13	865	235	23	990
Plants. Apparatus for sulphuring	J. B. Trazy	290,145	Dec. 11	953	269	25	1063
Plants. Support for climbing	A. Harroun	278,706	June 5	39	11	23	2131
Planter	R. S. Carr	279,221	June 12	757	209	23	2262
Planter and chock-rower. Combined self-dropping corn-	J. W. Bapple	283,459	Aug. 21	1200	337	24	729
Planter and cultivator. Combined	J. B. Newsom	283,272	Aug. 14	962	268	24	679
Planter and cultivator. Combined corn-	G. W. Giffard	285,889	Oct. 2	139	39, 40	25	27
Planter and cultivator. Combined cotton	B. Morris	271,101	Jan. 23	1574	453	23	319
Planter and cultivator. Combined cotton and corn	E. D. Carter	284,609	Sept. 11	551	156	24	1003
Planter and cultivator. Combined seed-	J. J. Birdsong	272,632	Feb. 20	1324	371	23	687
Planter and cultivator. Corn	J. C. Weiss	270,524	Jan. 9	857	249	23	177
Planter and cultivator. Cotton	J. H. Hicks	275,651	Apr. 10	1029	278	23	1410
Planter and cultivator. Seed-	R. J. Harrison	276,034	Apr. 17	1502	414	23	1499
Planter and drill combined. Corn	J. Folmer	289,342	Nov. 27	1930	536	25	872
Planter and fertilizer. Combined corn-	G. H. Saltsman	277,513	May 15	1234	332	23	1851
Planter and fertilizer-distributer. Combined	J. W. Cook	290,538	Dec. 18	1477	408	25	1102
Planter and fertilizer-distributer. Combined cotton, corn, and pea	J. B. Nelson	289,694	Dec. 4	414	116	25	958
Planter and fertilizer-distributer. Combined hand corn-	M. B. Fuller	270,581	Jan. 16	928	268	23	199
Planter and fertilizer-distributer. Combined seed-	J. W. Jones	275,919	Apr. 17	1366	376	23	1476
Planter and fertilizer-distributer. Combined seed-	M. H. Lincoln	277,038	May 8	663	172, 173	23	1745
Planter and fertilizer-distributer. Combined seed-	J. W. McKenzie and J. F. Powell	286,047	Oct. 2	331	92	25	61
Planter and fertilizer-distributer. Combined seed-	R. S. Wright	270,535	Jan. 9	869	253	23	180
Planter and fertilizer-distributer. Cotton-seed	A. G. Perry	290,920	Dec. 25	1966	543	25	1254
Planter and fertilizer-distributer. Hand seed-	R. A. Johnson	287,132	Oct. 23	1710	468	25	330
Planter and fertilizer-distributer. Seed-	W. Bradford	276,759	May 1	301	77	23	1677
Planter and fertilizer-distributer. Seed-	W. F. Edwards	284,826	Sept. 11	821	229	24	1050
Planter and fertilizer-distributer. Seed-	R. Platman	288,483	Nov. 13	884	240, 241	25	669
Planter and fertilizer-distributer. Seed-	C. Young	287,210	Oct. 23	1813	497, 498	25	348

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Planter and grain-drill. Combined corn-	H. Diller	290,670	Dec. 25	1646	453, 454	25	1197
Planter and guano-distributer. Combined cotton-	J. A. Elliott	287,014	Oct. 23	1561	430	25	301
Planter and marker. Combined corn-	H. M. Keith	283,253	Aug. 14	937	261, 262	24	674
Planter and marker. Corn	M. M. Clough	290,320	Dec. 18	1178	330	25	1110
Planter and marker. Corn	H. C. Pratt	274,027	Mar. 13	999	274	23	1013
Planter attachment. Corn-	W. T. McGhee	290,447	Dec. 18	1351	373	25	1140
Planter. Automatic check-row	W. H. Johnson	272,702	Feb. 20	1408	395	23	701
Planter. Automatic check-row corn-	C. G. Everet	272,222	Feb. 13	791	220	23	589
Planter. Bean-	A. A. Stearns	278,372	May 29	2318	634	23	2053
Planter check-line reel. Corn-	G. D. Haworth	277,030	May 8	653	170	23	1743
Planter. Check-row	J. F. Craig	289,967	Dec. 11	765	215	25	1028
Planter. Check-row	E. Houck, A. W. Greenlee, and A. S. Houck.	273,534	Mar. 6	377	100	23	899
Planter. Check-row	M. E. Johnson	288,444	Nov. 13	830	225	25	660
Planter. Check-row	H. L. Long	270,232	Jan. 9	483	142, 143	23	104
Planter. Check-row	L. J. Odell	289,696	Dec. 4	416	117	25	958
Planter check-row attachment. Corn-	H. D. Jones	274,612	Mar. 27	1780	494, 495	23	1163
Planter check-row attachment. Corn-	J. Kaylor	274,123	Mar. 20	1134	312	23	1043
Planter check-row attachment. Corn-	J. Kaylor and J. Fisher	282,532	Aug. 7	68	20	24	512
Planter check-row attachment. Corn-	E. M. McVicker	285,293	Sept. 18	1386	393	24	1158
Planter check-row attachment. Corn-	A. Runstetler and J. A. Marlay	282,012	July 24	2103	576	24	384
Planter check-row attachment. Seed-	C. P. Parker	281,919	July 24	1996	547	24	366
Planter check-row attachment. Corn-	V. Weber	288,528	Nov. 13	934	255	25	678
Planter. Check-row corn-	W. W. Church	289,619	Dec. 4	305	85	25	941
Planter. Check-row corn-	J. H. Allyn	271,676	Feb. 6	108	29	23	458
Planter. Check-row corn-	J. J. Fraikin	270,049	Jan. 2	259	75	23	53
Planter. Check-row corn-	J. K. Voorhees	271,167	Jan. 23	1654	475	23	332
Planter check-row lines. Anchor for corn-	A. Barnes	272,402	Feb. 20	1031	289	23	635
Planter check-rower	G. S. Briggs	288,158	Nov. 6	448	125, 126	25	586
Planter check-rower and drill. Corn-	B. F. Christ	272,855	Feb. 27	1623	454	23	747
Planter check-rower attachment. Corn-	A. F. Dice	281,469	July 17	1415	388	24	262
Planter check-rower attachment. Corn-	W. J. Hutchins	269,940	Jan. 2	140	41, 42	23	29
Planter check-rower attachment. Seed-	L. Eberhart	272,538	Feb. 20	1201	335	23	665
Planter check-rower. Corn-	M. Barnes	279,119	June 12	647	177	23	2244
Planter check-rower. Corn-	L. D. Benner	274,259	Mar. 20	1307	360	23	1074
Planter check-rower. Corn-	L. D. Benner	279,692	June 19	1344	374	23	2366
Planter check-rower. Corn-	J. Bradley	280,714	July 3	449	129	24	80
Planter check-rower. Corn-	G. W. Brown	278,500	May 29	2474	675	23	2081
Planter check-rower. Corn-	G. W. Brown and J. C. Tunnicliff	278,653	May 29	2656	727	23	2112
Planter check-rower. Corn-	E. Y. Burgan	278,090	May 22	1930	527	23	1976
Planter check-rower. Corn-	M. Callan, Jr	274,266	Mar. 20	1314	362	23	1076
Planter check-rower. Corn-	W. R. Campbell and W. J. Chambers	278,676	June 5	277	80	23	2170
Planter check-rower. Corn-	A. W. Cash	271,788	Feb. 6	246	69	23	483
Planter check-rower. Corn-	J. F. Ebert	273,827	Mar. 13	763	207	23	973
Planter check-rower. Corn-	J. F. Ebert	282,508	Aug. 7	38	11	24	507
Planter check-rower. Corn-	G. W. Flott and J. Overacker	289,906	Dec. 11	671	187	25	1011
Planter check-rower. Corn-	F. B. Kendall	279,766	June 19	1492	397	23	2381
Planter check-rower. Corn-	F. Litterer and L. McKinniss	278,441	May 29	2402	655	23	2068
Planter check-rower. Corn-	C. S. Locke	280,641	July 3	365	101	24	64
Planter check-rower. Corn-	L. McKinniss and F. Litterer	287,454	Oct. 30	2118	575	25	411
Planter check-rower. Seed-	F. C. Randall	272,476	Feb. 20	1125	316	23	651
Planter check-rower. Corn-	J. M. Roberts	283,817	Aug. 28	1635	460	24	820
Planter. Combined corn and cotton-seed	J. J. Holland	274,195	Mar. 20	1218	335	23	1059
Planter. Combined corn, cotton, and seed	O. F. Jarvis	283,347	Aug. 14	1056	297	24	698
Planter. Corn-	J. W. Adcock	272,111	Feb. 13	663	181	23	566
Planter. Corn-	R. H. Avery	276,745	May 1	279	71	23	1672
Planter. Corn-	L. L. Battle	288,399	Nov. 13	780	210	25	651
Planter. Corn-	J. E. Bering	272,404	Feb. 20	1035	290	23	636
Planter. Corn-	J. E. Bering. (Reissue)	10,320	May 1	595	156	23	1728
Planter. Corn-	L. Bilan	270,728	Jan. 16	1120	321	23	234
Planter. Corn-	G. W. Brown	278,497	May 29	2469	673, 674	23	2080
Planter. Corn-	G. W. Brown	278,498	May 29	2471	674	23	2080
Planter. Corn-	G. W. Brown	278,499	May 29	2472	674	23	2081
Planter. Corn-	R. M. Clark	289,222	Nov. 27	1785	494, 495	25	844
Planter. Corn-	W. B. and J. S. Curtis	283,213	Aug. 14	885	247	24	665
Planter. Corn-	D. S. Davis	281,981	July 24	2068	567	24	379
Planter. Corn-	O. P. Dunlop	283,330	Aug. 14	1035	290	24	692
Planter. Corn-	W. M. Eccles	290,552	Dec. 18	1495	413	25	1165
Planter. Corn-	G. F. Edson	282,288	July 31	2464	679	24	451
Planter. Corn-	A. C. Evans	281,756	July 24	1789	487, 488, 489	24	330
Planter. Corn-	A. Fox	274,928	Apr. 3	56	15	23	1235
Planter. Corn-	W. G. Gray	287,121	Oct. 23	1698	465	25	328
Planter. Corn-	D. Heckman	290,681	Dec. 25	1661	458, 459	25	1200
Planter. Corn-	W. H. Johnson	284,858	Sept. 11	859	241	24	1056
Planter. Corn-	G. Kroulik and L. Bilan	287,384	Oct. 23	2028	551	25	387
Planter. Corn-	W. P. Lanham	289,070	Dec. 11	863	245, 246	25	1046
Planter. Corn-	L. H. Letz	283,621	Aug. 21	1383	387	24	763
Planter. Corn-	J. Linnrott	277,495	May 15	1217	327	23	1848
Planter. Corn-	S. V. Main	274,351	Mar. 20	1424	390	23	1095
Planter. Corn-	J. McDaniel	272,291	Feb. 13	873	244	23	604
Planter. Corn-	A. N. Norris	276,869	May 1	433	115	23	1702
Planter. Corn-	B. Nunamacker	289,927	Dec. 11	692	194	25	1014
Planter. Corn-	F. J. Perkins	278,455	May 29	2420	660	23	2071

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Planter. Corn-	B. Phelps	284,662	Sept. 11	612	172	24	1013
Planter. Corn-	B. Phelps	284,663	Sept. 11	614	173	24	1014
Planter. Corn-	B. Phelps	284,664	Sept. 11	615	173	24	1014
Planter. Corn-	C. P. Phelps	283,812	Aug. 28	1629	458	24	819
Planter. Corn-	T. A. Rasmuson	286,486	Oct. 9	878	238	25	170
Planter. Corn-	J. Ressegien	274,382	Mar. 20	1462	400	23	1102
Planter. Corn-	P. Rodenbour	286,557	Oct. 9	971	261	25	186
Planter. Corn-	M. and A. Runstetler	281,304	July 10	1074	295, 296	24	196
Planter. Corn-	L. Scofield	276,719	May 1	244	61, 62	23	1656
Planter. Corn-	L. Scofield	279,822	June 19	1486	416	23	2391
Planter. Corn-	J. Selby	274,981	Apr. 3	125	35	23	1247
Planter. Corn-	J. D. Smith	285,768	Sept. 25	1977	560	24	1268
Planter. Corn-	G. P. Turner	270,350	Jan. 9	624	184	23	131
Planter. Corn-	J. S. Ward	274,065	Mar. 13	1046	288, 289	23	1021
Planter. Corn or bean	M. C. Wiebers	283,051	Aug. 14	689	193, 194	24	699
Planter. Cotton-	T. M. Barna	270,369	Jan. 9	654	192	23	137
Planter. Cotton-	E. D. Carter	278,682	June 5	7	2	23	2136
Planter. Cotton-	K. Hall	275,380	Apr. 10	679	180	23	1350
Planter. Cotton-	W. A. Horrall	286,700	Oct. 16	1162	313	25	226
Planter. Cotton-	W. M. Lindsey	288,077	Nov. 6	356	99	25	568
Planter. Cotton-	J. Minchener	283,135	Aug. 14	786	220	24	646
Planter. Cotton-	R. M. Pattillo	284,474	Sept. 4	379	105	24	968
Planter. Cotton-	T. N. Seay	281,145	July 10	995	278	24	189
Planter. Cotton-	F. E. Tarver	283,682	Aug. 21	1460	411	24	778
Planter. Cotton-seed	L. M. Alexander	276,742	May 1	276	70	23	1672
Planter. Cotton-seed	G. C. Ward	273,647	Mar. 6	522	140	23	923
Planter cut-off. Hand-	S. P. Babcock	276,995	May 8	608	159	23	1736
Planter. Duplex hand seed-	E. A. Spaulding	273,628	Mar. 6	497	133	23	919
Planter. Gang corn-	L. A. Lusk	271,722	Feb. 6	161	45	23	468
Planter. Hand-	D. A. Flummerfelt	273,977	Mar. 13	942	259	23	1003
Planter. Hand-	A. Lynn	283,499	Aug. 21	1252	351	24	738
Planter. Hand corn-	W. Gray	290,574	Dec. 18	1527	420	25	1171
Planter. Hand corn-	W. Hawks	275,486	Apr. 10	817	221	23	1374
Planter. Hand corn-	S. M. Macomber	277,757	May 15	1526	414	23	1901
Planter. Hand corn-	M. Records	287,162	Oct. 23	1747	478	25	337
Planter. Hand seed-	G. B. Clark	287,626	Oct. 30	2355	635	25	456
Planter. Potato-	W. W. Ashby	283,059	Aug. 14	699	196	24	631
Planter. Potato-	L. A. Aspinwall	276,994	May 8	606	159	23	1736
Planter. Potato-	H. D. Herrington	288,237	Nov. 13	556	154, 155	25	613
Planter. Potato-	T. Lowe	273,560	Mar. 6	415	111	23	905
Planter. Potato-	R. Wünsche	283,317	Aug. 14	1011	283	24	698
Planter. Potato and seed	W. H. Little	289,672	Dec. 4	371	106, 107	25	952
Planter. Seed-	A. A. Atwood	290,385	Dec. 18	1259	353	25	1125
Planter. Seed-	W. C. Bibb, Sr	285,558	Sept. 25	1706	481	24	1221
Planter. Seed-	G. W. Brown. (Reissue)	10,294	Mar. 13	1091	301	23	1029
Planter. Seed-	P. Devening	284,397	Sept. 4	292	82	24	953
Planter. Seed-	N. Evinger	281,677	July 24	1681	458	24	311
Planter. Seed-	J. F. Gehrke	276,388	Apr. 24	1956	541, 542	23	1585
Planter. Seed-	J. E. Goodwin	282,715	Aug. 7	299	85	24	552
Planter. Seed-	G. D. Haworth	270,219	Jan. 9	469	137	23	102
Planter. Seed-	G. D. Haworth	277,031	May 8	654	170	23	1744
Planter. Seed-	G. D. Haworth	283,780	Aug. 28	1592	450	24	813
Planter. Seed-	G. D. Haworth	283,781	Aug. 28	1594	450, 451	24	814
Planter. Seed-	G. D. Haworth	283,782	Aug. 28	1595	451	24	814
Planter. Seed-	T. J. Jackson	290,887	Dec. 25	1929	533	25	1348
Planter. Seed-	C. Lee	276,433	Apr. 24	2007	556	23	1594
Planter. Seed-	A. M. Lovett	278,156	May 22	2004	551	23	1990
Planter. Seed-	J. E. Lowder	273,748	Mar. 13	654	174	23	954
Planter. Seed-	J. M. Lowrey	288,080	Nov. 6	360	100	25	569
Planter. Seed-	L. Luppen	271,345	Jan. 30	1877	544	23	378
Planter. Seed-	C. Mitchell	276,266	Apr. 24	1788	497	23	1557
Planter. Seed-	T. B. Niles	285,652	Sept. 25	1819	518	24	1242
Planter. Seed-	J. Reynolds	286,068	Oct. 2	356	99	25	65
Planter. Seed-	E. Spiller	279,037	June 5	521	142	23	2212
Planter. Seed-	E. W. Vest	285,184	Sept. 18	1267	356	24	1135
Planter. Seed-	W. R. White	283,178	Aug. 14	837	234	24	655
Planter. Seed-	D. Wise	277,397	May 8	1090	293	23	1820
Planter. Seed-	A. B. Wood	285,336	Sept. 18	1433	405	24	1166
Planter. Seed and corn	W. H. Montgomery	281,386	July 17	1305	361	24	944
Planter. Self-drop corn-	H. B. Wheeler	272,392	Feb. 13	1013	283	23	626
Planter. Sulky check-row corn-	E. J. Hagan	279,241	June 12	779	215	23	2266
Planter. Tobacco-	S. S. Neblett	271,507	Jan. 30	2094	602	23	417
Planter. Tree-	L. Gairaud	283,594	Aug. 21	1367	379	24	758
Planters. Dropping attachment for corn-	J. A. De Vries	290,322	Dec. 18	1181	331	25	1110
Planters. Fertilizing attachment for corn-	A. C. Evans	280,367	July 3	33	9, 10	24	8
Planters. Potato-planting attachment for corn-	J. A. Hoskins	290,233	Dec. 18	1066	298	25	1091
Planters. Spring-metal cut-off for hand-	S. P. Babcock	276,996	May 8	608	160	23	1736
Planters. Trip-wire for check-row corn-	R. E. Caviness and G. McCormick	271,419	Jan. 30	1975	570	23	397
Planting attachment. Automatic corn-	E. Bollotte	285,560	Sept. 25	1708	482	24	1221
Planting-machine	E. J. Tilley	269,898	Jan. 2	89	26, 27	23	19
Planting machine. Cane-	C. C. Coleman	279,709	June 19	1361	379	23	2370
Planting machine. Seed-	J. W. Brigham	290,389	Dec. 18	1265	355	25	1126
Plaque	H. Craighead	286,118	Oct. 2	415	113-	25	76
Plaques. Manufacture of ornamental	J. Jacobson	285,038	Sept. 18	1093	305	24	1105
Plastering	H. Bissell	288,200	Nov. 13	510	141	25	605
Plastering compound	J. F. Thompson	286,165	Oct. 2	469	.....	25	88
Plastering-surfaces. Metallic	J. Stanley	290,133	Dec. 11	940	266	25	1060

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Plastic and elastic composition for forming elastic rolls, pads, &c.	G. J. Lesser	276,607	May 1	80	.....	23	1641
Plastic and yielding compound. Method of and apparatus for forming thin sheets of a	J. B. Edson	283,294	Aug. 14	895	250	24	667
Plastic cement mixture	R. H. Martin	276,607	May 1	208	.....	23	1660
Plastic composition for tailors' cutting-boards, &c.	M. Hughes	286,442	Oct. 9	833	.....	25	162
Plastic material	C. S. Lockwood	283,793	Aug. 28	1608	.....	24	816
Plastic material	C. S. Lockwood	283,794	Aug. 28	1609	.....	24	817
Plastic material	C. S. Lockwood	283,797	Aug. 28	1611	.....	24	817
Plastic material. Ornamenting or applying designs to articles made of	C. S. Lockwood	283,795	Aug. 28	1610	.....	24	817
Plastic materials. Compound die for	F. A. Nickerson	285,058	Sept. 18	1113	311	24	1109
Plastic materials. Die for the manufacture of articles from	F. A. Nickerson	285,059	Sept. 18	1114	311	24	1109
Plastic materials. Metal die for	F. A. Nickerson	285,057	Sept. 18	1112	310	24	1109
Plastic or yielding substances. Cutting up	J. G. Baker	271,399	Jan. 30	1952	565	23	392
Plastic or yielding substances. Mechanism for cutting up	J. G. Baker	271,398	Jan. 30	1949	564	23	392
Plastic paste	A. Meucci and T. Deudi	279,492	June 12	1102	.....	23	2318
Plate. Pie-	J. A. Seaman	284,244	Sept. 4	113	30	24	923
Platform: *See* Dumping-platform. Window-platform.							
Platform-elevator	G. Ruddell	278,050	May 22	1875	513	23	1968
Platform-spring	J. H. Grogan	271,703	Feb. 6	139	39	23	464
Platform-spring	J. P. Johnson	280,832	July 10	616	173	24	115
Platform-spring connection	C. Comstock	274,277	Mar. 20	1328	366	23	1078
Plating. Nickel-	L. F. Dunn	278,784	June 5	148	.....	23	2148
Plating. Nickel-	L. F. Dunn	289,337	Nov. 27	1925	.....	25	871
Pliers	C. F. Winslow	289,052	Nov. 27	1586	438	25	807
Pliers and punch. Combined cutting-	J. Thomson	283,833	Aug. 28	1651	465	24	893
Pliers. Cutting-	T. D. Hotchkiss	280,825	July 10	606	169	24	113
Pliers. Cutting-	J. H. Jencks	276,417	Apr. 24	1989	551	23	1590
Pliers for cutting and capping fuse, &c	S. Poole	287,159	Oct. 23	1745	478	25	337
Pliers. Watch-maker's	C. G. Schellenberger	273,612	Mar. 6	478	128	23	916
Plow	T. Alleman	279,308	June 12	860	238	23	2280
Plow	C. Anderson	277,185	May 8	851	236	23	1777
Plow	C. Anderson and J. Oliver	275,744	Apr. 10	1139	312	23	1429
Plow	C. Anderson and J. Oliver	275,745	Apr. 10	1141	313	23	1429
Plow	C. Anderson and J. Oliver	275,972	Apr. 17	1425	393	23	1487
Plow	C. Anderson and J. Oliver	280,777	July 10	556	155, 156	24	105
Plow	G. C. Avery	290,959	Dec. 25	2021	558	25	1262
Plow	M. L. Battle	282,694	Aug. 7	264	76	24	545
Plow	J. Blaylock	280,122	June 26	1857	523	23	2464
Plow	L. I. Bodenhamer	277,205	May 8	873	232	23	1781
Plow	J. Buchanan	277,987	May 22	1802	492	23	1955
Plow	F. Chevalier	288,776	Nov. 20	1243	341	25	739
Plow	A. G. Christman	275,354	Apr. 10	637	170	23	1343
Plow	J. Clausen	285,463	Sept. 25	1598	449	24	1200
Plow	F. R. Cooper and J. Lemmon. (Reissue.)	10,411	Nov. 27	1970	548	25	878
Plow	G. N. Dexter, Jr	290,669	Dec. 25	1645	453	25	1197
Plow	F. L. Ezell	272,223	Feb. 13	792	220	23	589
Plow	W. M. Flathers	287,814	Nov. 6	29	9. 10	25	512
Plow	J. L. Gilbert	290,032	Dec. 11	822	232	25	1038
Plow	S. T. Green and L. M. Heald	283,236	Aug. 14	913	254, 255	24	670
Plow	E. Haner	281,499	July 17	1452	398	24	269
Plow	C. Hanson	271,844	Feb. 6	313	86	23	496
Plow	W. K. Harrell	274,491	Mar. 27	1630	452	23	1137
Plow	J. W. and S. Harris	290,641	Dec. 18	1608	442	25	1184
Plow	W. C. Hawkins	273,987	Mar. 13	951	262	23	1005
Plow	G. F. Kennedy	279,252	June 12	793	219	23	2269
Plow	W. A. Lee	290,896	Dec. 25	1940	535	25	1249
Plow	T. I. Ludwig	282,999	Aug. 14	626	177, 178	24	618
Plow	D. N. Luse and J. W. Bell	287,143	Oct. 23	1725	472	25	333
Plow	E. D. Meagher	271,893	Feb. 6	369	102	23	506
Plow	E. D. Meagher	275,683	Apr. 10	1068	290	23	1416
Plow	E. D. Meagher	277,314	May 8	1000	268	23	1804
Plow	E. D. Meagher	277,315	May 8	1001	269	23	1805
Plow	A. Mekenney	277,047	May 8	673	176	23	1747
Plow	F. C. Merrill	289,848	Dec. 11	600	167	25	999
Plow	D. K. Miller	287,148	Oct. 23	1730	473	25	334
Plow	J. T. Overton	280,230	June 26	1983	557	23	2485
Plow	J. J. and E. R. Piatt	286,730	Oct. 16	1201	324	25	233
Plow	F. T. Pinter	288,734	Nov. 20	1198	328	25	729
Plow	C. Profrock	283,659	Aug. 21	1426	399	24	771
Plow	H. Raaths	287,720	Oct. 30	2475	667	25	480
Plow	J. Ring	277,786	May 15	1557	424	23	1907
Plow	M. M. Ritch	270,846	Jan. 16	1259	362	23	261
Plow	J. O. Rollins	273,316	Mar. 6	96	28	23	850
Plow	H. O. Roop	288,666	Nov. 20	1106	303	25	715
Plow	G. Simpson	280,680	July 3	409	114	24	73
Plow	W. W. Speer	290,714	Dec. 25	1713	472	25	1210
Plow	J. Trump	283,687	Aug. 21	1466	413	24	779
Plow	A. C. West	288,531	Nov. 13	937	256	25	678
Plow	R. W. Whitehurst	275,304	Apr. 3	536	147	23	1317
Plow	E. Wiard	279,469	June 12	1071	297	23	2313
Plow and cultivator attachment	J. Harman	280,615	July 3	331	93	24	59
Plow and cultivator. Combined	T. Meikle	269,871	Jan. 2	57	18	23	14
Plow and cultivator combined	J. T. Prior	286,485	Oct. 9	877	237	25	170
Plow and cultivator frame	F. A. Hill	283,394	Aug. 21	1120	317	24	715
Plow and pulverizer. Combined	C. E. Sackett	279,818	June 19	1481	415	23	2391

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Plow attachment	J. McDougall	280,493	July 3	197	52	24	36
Plow attachment. Sulky	G. Weliver	275,444	Apr. 10	764	203	23	1385
Plow attachment	S. B. Williams	288,904	Nov. 20	1395	385	25	767
Plow beam. Shovel	L. Gray	283,390	Aug. 21	1115	315	24	714
Plow-bolt	N. Sanders	281,564	July 17	1527	419	24	280
Plow. Convertible	W. H. Detter	276,674	May 1	177	45, 46	23	1654
Plow. Convertible	W. H. Detter	276,675	May 1	179	46, 47	23	1655
Plow. Cultivating	J. Kester	272,962	Feb. 27	1752	489	23	767
Plow. Cultivator	I. Hancock	270,426	Jan. 9	731	214	23	152
Plow. Cultivator	W. Markley and E. Ingraham	290,593	Dec. 18	1544	425	25	1174
Plow cutter and fender attachment	D. A. Hudelson	274,333	Mar. 20	1403	385	23	1090
Plow. Ditching	D. Fulton	275,375	Apr. 10	666	178	23	1348
Plow. Ditching	J. D. Hobbs	278,549	May 29	2531	690	23	2091
Plow. Ditching	J. T. Miller	284,465	Sept. 4	371	103	24	967
Plow. Double mold-board	C. C. Coleman	284,820	Sept. 11	816	227	24	1049
Plow. Double-shovel	G. C. Avery	285,723	Sept. 25	1912	542	24	1258
Plow. Double-shovel	C. Kenner	270,812	Jan. 16	1220	352	23	254
Plow-fender	J. J. McCarter	289,432	Dec. 4	71	20, 21	25	899
Plow-fender	M. Schubert	278,188	May 22	2046	562	23	1998
Plow for submarine work. Curved rotating	A. W. Von Schmidt	277,177	May 8	843	223	23	1776
Plow frame. Gang	E. S. Benham	289,376	Dec. 4	6	2	25	888
Plow-gage	T. Holt	285,264	Sept. 18	1356	382	24	1153
Plow. Gang	O. N. Felts	283,585	Aug. 21	1348	376, 377	24	756
Plow. Gang	J. M. Fix	285,885	Oct. 2	135	38	25	37
Plow. Gang	T. L. Grigsby	287,536	Oct. 30	2219	602	25	431
Plow. Gang	W. Kimmel	279,768	June 19	1423	398	23	2381
Plow. Gang	G. Lissenden	273,292	Mar. 6	61	18, 19	23	845
Plow. Gang	H. S. Palmer	288,362	Nov. 13	719	196	25	640
Plow. Gang and sulky	P. Moore	278,725	June 5	64	20	23	2135
Plow. Gang and sulky	T. B. Nutting	287,851	Nov. 6	71	22	25	520
Plow guide-wheel	G. W. Carr	270,742	Jan. 16	1138	326	23	238
Plow-handles. Machine for bending	A. Kehler	288,576	Nov. 13	991	273	25	689
Plow. Hillside	W. E. Connelly	275,594	Apr. 10	945	257	23	1396
Plow. Hillside	W. Strait	290,610	Dec. 18	1571	432	25	1178
Plow-jointer	G. S. Roberts	287,778	Oct. 30	2558	688	25	495
Plow-jointer	D. Woodward	281,817	July 24	1873	512	24	345
Plow-landside	B. C. Bradley	283,067	Aug. 14	707	199	24	633
Plow-landside	G. B. St. John	278,623	May 29	2618	714	23	2106
Plow-landside	W. B. Wherry	283,729	Aug. 21	1519	428	24	769
Plow mold-board. Side-hill	P. Gregory	285,481	Sept. 25	1616	453	24	1204
Plow. Moving	P. P. Jacotot	280,479	July 3	162	48	24	33
Plow or colter. Skim	B. C. Bradley	270,628	Jan. 16	989	286	23	210
Plow or harrow. Riding-roller	E. H. Brownell	288,542	Nov. 13	949	260	25	680
Plow, planter, and cultivator. Combined hand	G. Glidden	273,229	Feb. 27	2063	585	23	896
Plow-point	W. F. Baldwin	271,593	Feb. 6	10	3	23	442
Plow-point	A. Ball	289,797	Dec. 11	530	148	25	965
Plow-point and colter	H. F. Lyle	272,283	Feb. 13	866	242	23	603
Plow-point. Chilled	G. Wiard	277,816	May 15	1587	434	23	1912
Plow-points. Machine for grinding	M. Tennison	275,792	Apr. 10	1905	330	23	1440
Plow. Reversible	F. W. Foerster	283,387	Aug. 21	1113	314, 315	24	713
Plow riding attachment	J. H. McBride	284,036	Aug. 28	1917	537	24	870
Plow. Road	A. C. Seymour	289,454	Dec. 4	95	27	25	903
Plow. Rotary	G. A. Betancourt	272,631	Feb. 20	1323	371	23	687
Plow. Rotary	S. S. Gardner	285,809	Oct. 2	33	11, 12	25	9
Plow. Rotary	J. Lane	278,711	June 5	46	14, 15	23	2132
Plow, seeder, and cultivator. Sulky	P. Lincoln	287,034	Oct. 23	1569	437, 438	25	307
Plow. Shovel	W. Eddy	289,238	Nov. 27	1802	499	25	847
Plow. Spade-wheel	H. Skillings	271,142	Jan. 23	1618	465, 466	23	396
Plow-standard	A. Morris	289,437	Dec. 4	78	22	25	900
Plow standard and support. Combined	B. C. Bradley	270,630	Jan. 16	993	287	23	211
Plow. Steam	G. Greig	279,937	June 26	1639	460	23	2424
Plow. Steam	F. Pidgeon	289,554	Dec. 4	228	64	25	926
Plow. Steam	G. W. Ross	281,140	July 10	969	276	24	181
Plow. Sulky	A. Ball	289,798	Dec. 11	531	148	25	965
Plow. Sulky	L. Bell	286,678	Oct. 16	1132	305	25	291
Plow. Sulky	R. C. Buckley	278,089	May 22	1919	527	23	1976
Plow. Sulky	C. B. Douglas	273,971	Mar. 13	936	257, 258	23	1002
Plow. Sulky	E. C. Eaton	270,033	Jan. 2	943	71	23	50
Plow. Sulky	J. R. Ervin	285,022	Sept. 18	1072	299	24	1102
Plow. Sulky	A. Fisherbuck	283,877	Aug. 28	1701	480	24	833
Plow. Sulky	G. H. Fowler	277,258	May 8	932	250	23	1792
Plow. Sulky	S. H. Garst	273,508	Mar. 6	335	91	23	891
Plow. Sulky	J. F. Gehrke	288,993	Nov. 27	1507	417	25	795
Plow. Sulky	C. A. Hague	283,102	Aug. 14	752	212	24	640
Plow. Sulky	W. H. Harrod	288,998	Nov. 27	1513	418	25	795
Plow. Sulky	W. C. Henderson	286,433	Oct. 9	821	223	25	160
Plow. Sulky	R. S. Higgins	285,749	Sept. 25	1952	552	24	1264
Plow. Sulky	J. I. Hoke	286,540	Oct. 9	948	235	25	183
Plow. Sulky	J. J. Hussey	284,558	Sept. 4	483	136	24	986
Plow. Sulky	C. A. Kellogg	288,341	Nov. 13	690	190	25	635
Plow. Sulky	J. Lane	277,749	May 15	1513	410, 411	23	1899
Plow. Sulky	W. Martin	273,696	Mar. 6	584	155, 156	23	934
Plow. Sulky	B. F. McCray	282,207	July 31	2376	654	24	434
Plow. Sulky	E. Powell	290,107	Dec. 11	907	257	25	1054
Plow. Sulky	J. Rickey	276,193	Apr. 24	1701	470	23	1542
Plow. Sulky	J. L. Runk	282,929	Aug. 7	535	151	24	595
Plow. Sulky	S. K. Seelye	288,873	Nov. 20	1360	373	25	760

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Plow. Sulky	P. K. Stockton	275,956	Apr. 17	1406	388	23	1483
Plow. Sulky	W. Strait	275,090	Apr. 3	276	76	23	1273
Plow. Sulky	G. Wiard	278,643	May 29	2648	724	23	2110
Plow. Sulky	H. Wiard and W. R. Bullock	286,517	Oct. 9	918	248	25	177
Plow-sulky	E. B. Daniels and E. A. De Witt	280,015	June 26	1732	486	23	2441
Plow-sulky	F. F. Smith and J. W. Lockwood	272,092	Feb. 13	631	172	23	561
Plow. Tile-laying	H. King	288,344	Nov. 13	695	191	25	636
Plow. Wheel	R. M. Clark	289,223	Nov. 27	1787	495	25	844
Plow. Wheel	D. R. Dodge	278,519	May 29	2495	681	23	2085
Plow. Wheel	G. W. Hunt	285,412	Sept. 25	1536	433	24	1190
Plow. Wheel	H. Sattler	285,766	Sept. 25	1969	558	24	1267
Plow-wheel	E. E. Swan	273,779	Mar. 13	706	190	23	963
Plow wheel. Sulky	R. L. Millspaugh	286,468	Oct. 9	858	233	25	166
Plows. Corn-planting attachment for	P. Dougherty	290,006	Dec. 11	792	223	25	1033
Plows. Cotton-scraper attachment for	T. Felps	270,654	Jan. 16	1026	295	23	217
Plows. Weed and grass turning attachment for	O. H. and C. W. Judd	283,116	Aug. 14	768	216	24	644
Plowing-machine. Steam	J. D. Malone and J. F. Hamel	277,761	May 15	1530	415 416	23	1902
Plug. Spring-jack	J. C. Warner	273,648	Mar. 6	523	140	23	923
Plumb-bob	G. C. Avery	279,316	June 12	872	243	23	2282
Plumb, square, and level. Combined	W. H. Dehney	280,358	July 3	23	6, 7	24	6
Plumber's charcoal-furnace	L. Bowsky	281,009	July 10	825	230	24	153
Plumbers' hooks. Manufacture of	C. W. Dean	279,228	June 12	765	211	23	2264
Plumber's portable furnace	C. H. Schrack	280,245	June 26	2003	563	23	2489
Plumber's trap	R. Clarke	285,574	Sept. 25	1725	487	24	1224
Plumber's trap	P. Connolly	277,888	May 22	1682	459	23	1935
Plumber's trap	P. Connolly. (Reissue)	10,333	May 29	2682	734	23	2117
Plumber's trap	F. N. Du Bois	287,510	Oct. 30	2187	594	25	424
Pneumatic apparatus for the separation of minerals, &c.	B. W. Hart	271,450	Jan. 30	2019	582 583	23	405
Pneumatic compressor	J. B. Root	283,925	Aug. 28	1758	496	24	842
Pneumatic elevator	J. Lewis	287,033	Oct. 23	1587	437	25	306
Pneumatic indicator and speaking-tube	J. Capron	277,110	May 8	757	199	23	1761
Pneumatic lubricator	W. W. Rosenfield	285,162	Sept. 18	1240	348	24	1130
Pneumatic tubes. Delivery-switch for	E. S. Leaycraft	279,574	June 19	1907	333 334	23	2342
Pocket	R. Nicol, Jr.	278,587	May 29	2567	701	23	2097
Pocket-book	M. W. Mahar	275,780	Apr. 10	1191	326	23	1437
Pocket-book holder	M. W. Mahar	281,638	July 17	1623	433	24	295
Pocket-books. Spring-ball fastener for	J. Menahan	290,906	Dec. 25	1951	538	25	1251
Pocket-books. Spring hinge-joint fastening for	J. Menahan	271,094	Jan. 23	1567	451	23	317
Pocket-case and cigar-clipper. Combined	A. P. Yates	283,055	Aug. 14	694	195	24	630
Pocket-case. Combination	A. L. Talcott	286,650	Oct. 16	1095	295	25	215
Pocket for garments. Safety	J. Kahn	283,609	Aug. 21	1371	383	24	760
Pocket-knife	G. W. Du Bois	280,150	June 26	1888	531	23	2469
Pocket-knife	G. W. Korn	273,858	Mar. 13	806	218	23	980
Pocket-knife	L. H. Peters	279,794	June 19	1453	407	23	2386
Pocket-knife and cigar-cutter. Combined	A. P. Brown	274,714	Mar. 27	1895	528	23	1184
Pocket knife and rule. Combined	E. S. Glover	273,981	Mar. 13	946	260	23	1004
Pocket-knife for cutting tobacco	O. S. Harmon	276,813	May 1	302	96	23	1690
Pocket. Safety	J. Geary	274,092	Mar. 13	1084	298	23	1028
Pocket. Safety	J. M. Hunter	274,129	Mar. 20	1132	312	23	1043
Pocket. Safety	L. H. Law	288,458	Nov. 13	851	230	25	663
Poison for squirrels, gophers, &c	A. R. Booth	271,094	Jan. 23	1481	.....	23	303
Pointer for blackboards and maps	C. M. Tarr	283,041	Aug. 14	677	190	24	627
Poke. Animal	S. N. Howard	285,268	Sept. 18	1360	383	24	1153
Poke. Animal	J. E. Hunter	281,881	July 24	1949	532	24	358
Poke. Animal	D. C. Rice	270,843	Jan. 16	1256	361	23	260
Poke. Animal	P. Swan	287,190	Oct. 23	1785	490	25	344
Poke. Animal	B. S. Thomas	275,732	Apr. 10	1122	307	23	1426
Pole and chain. Binding	H. M. Carlsen	276,351	Apr. 24	1908	529	23	1576
Pole and line holder. Clothes	W. H. Martyn, Jr	289,290	Nov. 27	1864	518	25	859
Pole and shaft. Vehicle	W. H. Marrett	284,033	Aug. 28	1913	536	24	869
Pole. Buggy	P. Papineau	290,463	Dec. 18	1376	380	25	1144
Pole. Carriage	C. M. Blydenburgh	287,412	Oct. 30	2067	562	25	401
Pole. Carriage	M. D. Lawrence	273,553	Mar. 6	403	108	23	903
Pole. Extension clothes	S. D. Jordan	275,770	Apr. 10	1180	324	23	1436
Pole. Flag	R. Center	289,976	Dec. 11	749	212	25	1025
Pole. Hop	G. H. Kenyon	286,309	Oct. 9	670	179	25	132
Pole safety-bar attachment. Vehicle	A. Burson	277,676	May 15	1430	386	23	1883
Pole. Vehicle	C. Comstock	279,710	June 19	1362	380	23	2370
Pole. Vehicle	F. G. Crowley	275,470	Apr. 10	801	216	23	1371
Policeman's hook	E. D. Bean	284,165	Sept. 4	6	2	24	906
Polishing compound	G. W. Buckalew and P. Quinn	284,718	Sept. 11	693	.....	24	1028
Polishing device	J. N. Spencer	275,954	Apr. 17	1404	387	23	1483
Polishing-iron	C. Ball	277,193	May 8	860	228	23	1779
Polishing or buffing wheel	S. T. Wray	275,561	Apr. 10	909	246	23	1390
Polishing-paste	E. Ludwig	282,913	Aug. 7	520	.....	24	593
Polishing-tool	T. R. Almond	289,879	Dec. 11	635	177	25	1004
Polishing-wheel	W. S. Bishop	285,559	Sept. 25	1707	481	24	1221
Polishing-wheel	F. H. Morse	277,325	May 8	1013	272	23	1807
Pomace. Method of and apparatus for separating apple-seed from	J. D. Camp	280,130	June 26	1866	526	23	2465
Ponton	A. H. Williams	280,272	June 26	2037	573	23	2495
Pool and billiard tables. Supplemental pocket for	F. Kiekenapp	281,518	July 17	1477	405	24	272
Pool apparatus. Lawn	W. H. Kelly	278,341	May 29	2280	623	23	2046
Pool-ball rack	J. Carr	286,114	Oct. 2	411	113	25	76
Pool-ball rack	W. F. Whitney	272,609	Feb. 20	1294	361	23	681
Pool-counter	J. G. Swanton	269,896	Jan. 2	87	26	23	19
Pool-table ball-rack	O. T. Bugg and D. Ivey	269,825	Jan. 2	4	1	23	3
Pool-table ball-rack	J. H. Spangler	288,675	Nov. 20	1119	308	25	717
Pool-triangle	W. H. Wiggins	283,732	Aug. 21	1521	429	24	789
Porcelain-paste. Apparatus for pulverizing	J. R. Alsing. (Reissue)	10,382	Sept. 18	1480	417	24	1173
Porous silicious materials to be used as fire-bricks, filters, &c. Manufacturing	A. Frank	287,817	Nov. 6	32	.....	25	513

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr's.	Official Gazette. Vol.	Official Gazette. Page.
Port-lid and hawse-pipe. Combined	A. Alfson	280,552	July 3	258	69	24	47
Portable bath	W. Kendall	283,117	Aug. 14	769	216	24	644
Portable bracket	L. Baumeister	276,336	Apr. 24	1893	525	23	1574
Portable drill	W. Sandiford	287,866	Nov. 6	92	27, 28	25	524
Portable elevator	J. T. Haines	275,647	Apr. 10	1025	277	23	1409
Portable engines. Draft attachment for	M. E. Hershey	289,098	Nov. 27	1639	454	25	816
Portable heater	D. H. Erdman	286,410	Oct. 9	794	214	25	154
Portable press	T. A. Bunce	288,006	Nov. 6	280	79	25	555
Portable press	W. J. F. Liddell	272,718	Feb. 20	1426	400	23	705
Portable tank and pump. Combined	N. Vizelich	274,060	Mar. 13	1042	286, 287	23	1020
Portfolio	J. N. Brown	284,272	Sept. 4	141	40	24	928
Portfolio	J. W. King and S. W. Goodwin	287,030	Oct. 23	1584	436	25	306
Post: *See* Binding-post. Drilling-machine post. Electric-conductor post. Fence-post. Fence and telegraph post. Hitching-post. Spiral spring post.							
Post and base. Combined	J. Newton	272,149	Feb. 13	702	192	23	573
Post-drawing device	R. Gibbs	290,637	Dec. 18	1605	441	25	1183
Post-driver	H. E. Fairman	276,677	May 1	184	48	23	1655
Post-driver	H. E. Fairman	285,881	Oct. 2	130	37	25	25
Post-driver	R. M. St. John	274,989	Apr. 3	134	37	23	1948
Post-driving machine	E. Hiatt	286,816	Oct. 16	1301	354	25	951
Post-hole digger	C. L. Carter	278,878	June 5	279	81	23	2171
Post-hole digger	C. L. Carter	283,753	Aug. 28	1559	439	24	807
Post-hole digger	F. E. Kohler	281,193	July 10	1057	292	24	194
Post-hole digger	W. H. Rhodes	281,137	July 10	983	275	24	180
Post-hole digger	A. Rogers	283,282	Aug. 14	973	271	24	681
Post-hole digger	W. C. Switzer	274,531	Mar. 27	1687	467	23	1146
Post-hole-digging machine	B. Crawford	280,585	July 3	301	83	24	54
Post-office box	J. A. Howe	273,992	Mar. 13	927	264	23	1006
Post-office-box indicator	R. Page	282,662	Aug. 7	224	65	24	536
Post-office-box indicator	R. Page	283,918	Aug. 28	1747	493	24	840
Post-office-box lock	W. H. Camp	280,718	July 3	454	130	24	81
Post-office lock-box	W. H. Taylor	284,988	Sept. 11	1013	285	24	1085
Postal cabinet	L. C. Gray	275,194	Apr. 3	400	110, 111	23	1295
Postal-card	J. J. Williamson	283,841	Aug. 28	1660	469	24	825
Pot: *See* Coffee-pot. Coffee and tea pot. Coffee or tea pot. Flower-pot. Glass-pot. Stove fire-pot. Tea-pot. Tea and coffee pot. Tea or coffee pot.							
Pot and kettle	D. Snyder	274,147	Mar. 20	1161	320	23	1048
Pot and kettle	D. Snyder	279,671	June 19	1393	367	23	2362
Potato-digger	A. Adam	290,305	Dec. 18	1158	324, 325	25	1106
Potato-digger	A. Ansley	272,845	Feb. 27	1613	451	23	745
Potato-digger	W. F. Austin	271,015	Jan. 23	1473	424	23	302
Potato-digger	J. W. Cook	277,461	May 15	1176	316	23	1841
Potato-digger	S. P. Hedges	271,068	Jan. 23	1534	443	23	312
Potato-digger	L. G. Kelsey	275,669	Apr. 10	1049	285	23	1414
Potato-digger	G. Norsëng	282,917	Aug. 7	593	146, 147	24	593
Potato-digger	J. Shannon	288,875	Nov. 20	1362	374	25	760
Potato digger and picker	S. Raymond	286,961	Oct. 16	1487	408, 409	25	982
Potato digging and separating machinery	R. A. Clark	271,601	Feb. 6	23	6	23	444
Potato-digging machine	J. T. Warren	282,135	July 31	2286	627	24	420
Potato-peeling machine	J. A. Moffat	273,125	Feb. 27	1949	547	23	803
Potter's table and carriage. Combined	M. W. Jordan	274,001	Mar. 13	972	267	23	1008
Pottery-lawn	J. H. Moon	282,752	Aug. 7	336	96	24	550
Pottery. Machine for the manufacture of	C. M. Ribon	282,369	July 31	2579	707, 708	24	470
Pottery. Manufacture of	F. A. Magowan and R. M. Bassett	290,443	Dec. 18	1347	373	25	1139
Pottery-mold	J. Tams	285,321	Sept. 18	1418	401	24	1164
Powder and nitro-glycerine. Apparatus for thawing giant-	G. Murray and M. A. Gibbs	276,862	May 1	492	113	23	1700
Powder and nitro-glycerine. Apparatus for thawing giant-	G. Murray and M. A. Gibbs	276,863	May 1	493	113	23	1700
Powder-charger. Adjustable	O. E. Michaelis	272,072	Feb. 13	606	164	23	557
Powder-duster	W. B. Allen	277,655	May 15	1407	379	23	1879
Powder-duster	H. H. Hayes	277,900	May 22	1697	463	23	1938
Powder-flask	P. O. Kessler	288,066	Nov. 6	343	96	25	566
Powders. Machine for preparing papers for physicians'	D. M. Smyth	276,297	Apr. 24	1897	508, 509	23	1563
Powders upon surfaces. Apparatus for distributing	W. Hadden	269,850	Jan. 2	38	12	23	10
Power: *See* Churn-power. Cotton-gin power. Foot-power. Horse-power. Horse and hand power. Manual power. Mechanical power. Motive power. Tread-power. Tread and railway power. Treadle-power. Wave-power. Weight-power.							
Power-accumulator	J. B. Edson	273,044	Feb. 27	1851	518	23	786
Power-converter	H. Croft, Jr	287,634	Oct. 30	2364	638	25	458
Power-converter	J. F. Winchell	270,621	Jan. 16	980	283	23	908
Power-elevator	T. Hill	279,243	June 12	783	216	23	2267
Power from a central station. System for transmitting	J. L. Boone	279,694	June 19	1346	374	23	2366
Power-jack	M. V. Barron	287,792	Nov. 6	5	2	25	508

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Power loading apparatus	F. Peteler	277,337	May 8	1027	275, 276	23	1809
Power-motor	H. H. Holden	278,962	June 5	428	117	23	2196
Power-press	R. E. Boschert	279,695	June 19	1348	375	23	2367
Power-press	A. H. Merriman	286,839	Oct. 16	1335	364, 365	25	257
Power-press	O. P. Morgan	272,303	Feb. 13	883	247	23	606
Power to machinery. Attachment for applying	J. W. Ostrander	281,293	July 17	1189	329	24	224
Power-transmitter	W. R. Somers	282,679	Aug. 7	242	70, 71	24	541
Power-transmitting apparatus	S. W. Hudson	278,018	May 22	1840	502	23	1961
Precious and imitation precious stones. Preparing	S. Grossiord	290,040	Dec. 11	831	.....	25	1040
Precious metals. Apparatus for sizing and amalgamating	C. D. Bigelow	275,325	Apr. 3	563	154	23	1322
Precious metals by means of the lead bath. Apparatus for extracting the	W. W. Brown and L. A. Gates	289,064	Nov. 27	1597	442, 443	25	809
Precious metals from ores. Extracting	A. K. Huntington and W. E. Koch	281,074	July 10	907	253	24	168
Precious stones. Obtaining artificial	S. Grossiord	280,467	July 3	169	.....	24	31
Preservative compound	W. S. Fickett	285,350	Sept. 18	1452	.....	24	1169
Preserving and transporting food. Method of and apparatus for	S. H. Linn	270,549	Jan. 9	888	257	23	183
Preserving edible animal fats	W. P. Clotworthy	284,184	Sept. 4	33	.....	24	910
Preserving food	I. M. Mitchell	277,768	May 15	1541	418	23	1904
Preserving food. Composition for	J. Howard	276,246	Apr. 24	1764	.....	23	1553
Preserving food. Compound for	R. F. Humiston	270,899	Jan. 23	1329	.....	23	279
Preserving food. Process of and apparatus for	G. F. Foote	285,741	Sept. 25	1940	549	24	1262
Press:							
See Baling-press.							
Box-packing press.							
Brick-press.							
Button-press.							
Canning-press.							
Cheese-press.							
Cider-press.							
Cider and wine press.							
Cigar-mold press.							
Copying-press.							
Copying and printing press.							
Corset-press.							
Cotton-press.							
Cotton and hay press.							
Die-press.							
Filter-press.							
Fruit-press.							
Glass-press.							
Glass-molding press.							
Harness and box-loop press.							
Harness-pad press.							
Hay-press.							
Hay and cotton press.							
Ingot-press.							
Lard-press.							
Matrix-drying press.							
Portable press.							
Power-press.							
Printer's proof-press.							
Printing-press.							
Punching-press.							
Punching and drawing press.							
Screw-press.							
Seal-press.							
Seaming-press.							
Shaft-press.							
Sheet-metal press.							
Tobacco-press.							
Toggle-press.							
Trunk-lid press.							
Veneer-press.							
Wine and cider press.							
Press	A. J. Borchard	286,582	Oct. 16	1007	272	25	199
Press	G. H. and O. P. Bushnell	285,108	Sept. 18	1173	329	24	1119
Press	D. W. De Forest	270,936	Jan. 23	1371	396	23	286
Press	J. R Devor	269,922	Jan. 2	116	34	23	24
Press	P. Lord	280,840	July 10	627	176	24	117
Press	G. Wildey and A. Rollins	271,754	Feb. 6	204	57	23	475
Press for cornstalks, &c	T. L. Vought	281,417	July 17	1347	372	24	250
Press for sacking bran, sawdust, &c	A. L. Batteon	290,515	Dec. 18	1448	400	25	1157
Press for stearine, &c	J. McCord	275,926	Apr. 17	1374	378	23	1477
Presses. Mechanism for adjusting rods or pitmen of die-	J. M. Seymour	284,910	Sept. 11	920	259, 260	24	1068
Pressing-board. Tailor's	J. Neerpasch	272,746	Feb. 20	1467	412	23	712
Presser-foot device. Lifting and rotating	G. M. Morris	289,687	Dec. 4	391	112	25	955
Pressure and vacuum gage	A. H. Emery	278,909	June 5	335	94	23	2180
Pressure brake. Fluid-	G. A. Boyden	280,285	June 26	2048	576	23	2497
Pressure device	W. A. Moore	284,044	Aug. 28	1925	539	24	871
Pressure-gage	A. H. Emery	278,907	June 5	332	93	23	2180
Pressure-gage	A. H. Emery	278,908	June 5	334	93	23	2180
Pressure-gage	A. H. Emery	278,910	June 5	337	94	23	2181
Pressure gage. Differential-	J. W. Hyatt	283,490	Aug. 21	1240	348	24	736
Pressure gage. Fluid-	F. G. Hesse	275,765	Apr. 10	1176	322, 323	23	1435
Pressure-gage. Recording	F. A. Jones	287,685	Oct. 30	2428	653, 654	25	472
Pressure-gage. Recording	F. A. Jones	287,686	Oct. 30	2428	654	25	472
Pressure-gage. Recording	F. A. Jones and S. Glines	287,684	Oct. 30	2426	653	25	472
Pressure gage. Steam-	G. H. Crosby	272,860	Feb. 27	1629	456	23	748
Pressure gage. Steam-	M. McNeil	278,164	May 22	2016	555	23	1993
Pressure-gage tester. Fluid-	G. Westinghouse, Jr	287,894	Nov. 6	131	38, 39	25	530
Pressure gage. Thermo steam-	P. Bonte	277,446	May 15	1158	311	23	1838
Pressure-gage trap. Steam-	G. H. Crosby	288,693	Nov. 20	1142	314	25	721
Pressure regulator. Fluid-	G. Ross	285,163	Sept. 18	1242	349	24	1130
Pressure regulator. Fluid-	G. Westinghouse, Jr	280,269	June 26	2031	572	23	2494
Pressure regulator or governor	G. B. Price	273,389	Mar. 6	197	53	23	868
Printed designs from paper to sheets of tin, &c. Transferring	H. Mathieson	278,030	May 22	1854	.....	23	1964
Printed sheets. Drying	G. D. Carroll	273,816	Mar. 13	751	204	23	971
Printer's chase	J. B. Moreau, Jr	270,969	Jan. 23	1418	408	23	293
Printer's correcting-table	L. L. Bender	285,556	Sept. 25	1703	480	24	1220
Printer's galley	R. E. A. Dorr and T. Williams	288,038	Nov. 6	312	88	25	561
Printer's galley	N. Roemer	287,581	Oct. 30	2294	620	25	446
Printer's imposing-stone	D. W. Whitaker	286,979	Oct. 16	1512	415	25	286
Printer's inking and distributing roller	A. Campbell	280,447	July 3	136	37	24	26
Printer's inking-roller	A. Campbell	285,011	Sept. 18	1057	296	24	1099
Printer's proof-press	B. F. Jacobs	271,468	Jan. 30	2048	589	23	409
Printer's roller	L. P. Bardwell	271,567	Jan. 30	2165	624	23	429

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Printers' rules. Machine for cutting	R. S. Robson	271,904	Jan. 23	1700	491	23	339
Printers' rules. Machinery for cutting and mitering.	C. Mitchell	271,349	Jan. 30	1690	547	23	381
Printing	E. Anthony	273,431	Mar. 6	247	67	23	876
Printing and embossing machine. Plate-	E. Hewitt	272,878	Feb. 27	1656	463, 464	23	752
Printing and perforating machine. Label	W. R. Landfear	288,349	Nov. 13	703	192	25	637
Printing-blocks. Producing patterns upon	A. Jackson	274,944	Apr. 3	77	21, 22	23	1238
Printing-cylinder	E. Haas	278,937	June 5	398	109	23	2191
Printing, embossing, and power presses. Stop-movement for	M. Gally	287,821	Nov. 6	38	12	25	514
Printing endless paper. Machine for	E. Abadie	276,547	May 1	1	1	23	1627
Printing fabrics	F. L. Palmer	280,075	June 26	1807	508	23	2454
Printing fabrics. Machine for	J. Kerr and J. Howard	276,426	Apr. 24	2000	554	23	1592
Printing frame. Sun-	J. S. Hambaugh	276,173	Apr. 24	1677	464	23	1538
Printing in colors. Photo-mechanical	F. C. Hösch	287,938	Nov. 6	187	53, 54, 55	25	540
Printing-machine	E. Anthony	275,113	Apr. 3	302	84	23	1278
Printing-machine	J. H. Cranston	284,947	Sept. 11	964	271	24	1076
Printing-machine	J. E. Hinds. (Reissue)	10,330	May 22	2290	608, 609	23	2027
Printing-machine	G. W. Kendall and C. Kruse	287,383	Oct. 23	2026	551	25	366
Printing-machine	S. D. Tucker	272,604	Feb. 20	1286	358, 359	23	679
Printing-machine air-cushioning apparatus	L. C. Crowell	274,084	Mar. 13	1074	296	23	1036
Printing-machine air-cushioning apparatus	L. C. Crowell	277,550	May 15	1285	345	23	1858
Printing machine. Multicolor-	H. P. Feister	273,672	Mar. 6	554	147	23	929
Printing-machine. Oscillating-cylinder	A. Campbell	289,810	Dec. 11	546	152, 153	25	988
Printing machine. Plate-	H. Lee	282,995	Aug. 14	612	173, 174, 175, 176	24	616
Printing-machine sheet-delivery apparatus	L. C. Crowell	276,672	May 1	165	42, 43, 44, 45	23	1654
Printing machine. Web-	J. P. Vienot	274,534	Mar. 27	1686	468	23	1146
Printing-machines. Variable bed-motion for	A. Campbell	278,875	June 5	274	79, 80	23	2170
Printing on metals. Process of and composition for making a drier for ink used for	H. Mathieson	277,499	May 15	1221	.....	23	1849
Printing-plate	J. F. Earhart	284,399	Sept. 4	294	82	24	953
Printing-press	G. L. Adams	276,907	Apr. 24	1718	475, 476	23	1545
Printing-press	E. Anthony	273,430	Mar. 6	243	66	23	876
Printing-press	J. Brooks	274,558	Mar. 27	1712	475, 476	23	1150
Printing-press	A. Campbell	283,201	Aug. 14	870	243	24	662
Printing-press	C. B. Cottrell	290,747	Dec. 25	1758	485, 486	25	1218
Printing-press	C. B. Cottrell	290,748	Dec. 25	1761	486	25	1219
Printing-press	T. B. Dooley	286,689	Oct. 16	1147	309	25	294
Printing-press	J. T. Hawkins	272,834	Feb. 20	1579	443, 444	23	732
Printing-press	J. T. Hawkins	272,835	Feb. 20	1583	444, 445	23	733
Printing-press	J. T. Hawkins	286,814	Oct. 16	1298	353, 354	25	251
Printing-press	J. W. Hopkins	271,333	Jan. 30	1865	541	23	376
Printing-press	B. Huber	270,670	Jan. 16	1046	299	23	220
Printing-press	B. Huber	285,750	Sept. 25	1953	552, 553	24	1264
Printing-press	R. M. Hunter	271,070	Jan. 23	1537	443	23	319
Printing-press	C. D. Lloyd	285,421	Sept. 25	1551	437	24	1192
Printing-press	T. McIlroy	285,626	Oct. 2	55	17	25	12
Printing-press	G. W. Prouty	290,267	Dec. 18	1111	312	25	1098
Printing-press	W. B. Shedd	286,337	Oct. 9	709	189	25	139
Printing-press	G. Williamson	276,517	Apr. 24	2111	586, 587	23	1612
Printing-press	G. Williamson	290,301	Dec. 18	1150	392, 393	25	1105
Printing-press air-cushioning device	G. P. Fenner	272,673	Feb. 20	1374	385	23	695
Printing-press air-cushioning mechanism	W. Scott	282,379	July 31	2568	711	24	471
Printing-press attachment	F. M. Brooke	288,404	Nov. 13	785	212	25	652
Printing-press beds. Mechanism for operating	A. Campbell	274,560	Mar. 27	1715	476	23	1151
Printing-press cushioning apparatus	W. Scott	288,872	Nov. 20	1358	373	25	759
Printing-press delivery apparatus	C. B. Cottrell	280,584	July 3	299	83	24	53
Printing-press delivery mechanism	G. W. Van Allen	270,267	Jan. 9	590	152, 153	23	112
Printing-press. Device for straightening sheets delivered from the fly of a	T. H. Bowes	276,221	Apr. 24	1733	480	23	1547
Printing-press face-cloth	A. Campbell	279,129	June 12	658	180	23	2246
Printing-press feed-gage	E. L. Megill	289,014	Nov. 27	1531	423	25	798
Printing-press feed-gage	T. H. Winchester	277,396	May 8	1069	293	23	1860
Printing-press folder	C. Kahler	276,972	May 1	571	149, 150	23	1794
Printing-press for printing on wood	G. W. Prouty	291,002	Dec. 25	2087	575	25	1273
Printing-press gage-pin	E. L. Megill	277,500	May 15	1221	328	23	1849
Printing-press gripper	H. Ayres	274,546	Mar. 27	1699	471	23	1148
Printing-press gripper mechanism	J. T. Hawkins	281,763	July 24	1799	491	24	332
Printing-press gripper-motion	G. P. Fenner	272,674	Feb. 20	1375	386	23	695
Printing-press grippers. Tumbler-motion for	C. B. Cottrell	280,583	July 3	298	82	24	53
Printing-press. Hand-stamp	T. B. Cosley	276,779	May 1	325	85	23	1669
Printing-press ink-fountain	H. Willson	279,301	June 12	854	237	23	2279
Printing-press inking apparatus	J. Brooks	280,127	June 26	1863	525	23	2465

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Printing-press inking apparatus	J. W. Osborne	287,569	Oct. 30	2268	615	25	441
Printing-press movement	C. F. Owen	276,621	May 1	94	25	23	1643
Printing press. Plate	J. S. Ives	276,591	May 1	61	17	23	1638
Printing-presses. Automatic cutting and feeding attachment for	C. E. Clement	287,239	Oct. 23	1850	506, 507, 508	25	354
Printing-presses. Automatic feeding device for	C. Ellery	272,419	Feb. 20	1054	296	23	639
Printing-presses. Automatic piling device for	J. Flanders	273,052	Feb. 27	1858	521	23	787
Printing-presses. Counting apparatus for rotary	G. Rosquist	277,945	May 22	1744	476	23	1945
Printing-presses. Driving mechanism for oscillating	F. H. Richards	289,558	Dec. 4	234	66	25	927
Printing-presses. Mechanism for shifting the angle-rollers of	A. Campbell	284,607	Sept. 11	548	155	24	1003
Printing-presses. Mounting form-rollers for	A. Campbell	282,956	Aug. 14	570	161	24	609
Printing-presses. Paper folding, pasting, and trimming attachment for	T. C. Dexter	287,422	Oct. 30	2078	565	25	403
Printing-presses. Sliding bearer for beds of	A. Campbell	286,997	Oct. 23	1538	424	25	296
Printing. Preventing offset in web	S. Wheeler	284,929	Sept. 11	941	264	24	1072
Printing, &c. Production of surfaces for	J. J. Sachs	274,519	Mar. 27	1668	.....	23	1143
Printing stones or plates. Device for stippling, shading, or tinting	C. C. Macbrair	288,081	Nov. 6	361	100	25	569
Prison-cells. Armor for	P. Herzog	271,633	Feb. 6	62	17	23	451
Privy	F. B. Kendall	290,776	Dec. 25	1791	494	25	1224
Privy and attachments	F. Bauer and D. T. Kenney	273,439	Mar. 6	256	69	23	877
Privy-sink	T. Keely	278,558	May 29	2539	693	23	2092
Privy-vaults and drains. Device for preventing the escape of effluvia from	H. C. Buddenberg	282,437	July 31	2671	732	24	487
Programme-card for dances	E. Mendum and S. G. Swett	276,191	Apr. 24	1698	469	23	1541
Projectile	J. G. Butler	290,970	Dec. 25	2045	562	25	1266
Projectile	H. B. Littlepage	275,674	Apr. 10	1054	286	23	1414
Projectile	T. Nordenfelt	270,101	Jan. 2	314	93	23	64
Projectile	E. Palliser	275,258	Apr. 3	478	133	23	1307
Projectile. Air-	W. T. Chamberlain	279,539	June 19	1167	323	23	2335
Projectile for carrying and discharging oil	W. D. Baker	272,400	Feb. 20	1026	287	23	635
Projectile for ordnance	J. Vavasseur	271,382	Jan. 30	1932	559	23	388
Projectile. Line-carrying	G. F. Griffin and C. W. Dixon	289,909	Dec. 11	674	188	25	1011
Proof. Apparatus for taking	C. E. Baldwin	278,848	June 5	240	69	23	216a
Propeller and operating mechanism. Reciprocating	R. Smith	279,987	June 26	1694	476	23	2434
Propeller. Boat	J. W. Cooper	284,821	Sept. 11	816	227, 228	24	1049
Propeller. Chain	B. Roy	272,159	Feb. 13	714	196	23	575
Propeller. Endless-band	M. J. Larsen	278,027	May 22	1850	505	23	1963
Propeller for boats. Vibrating	H. A. Hannum	278,945	June 5	408	112	23	2193
Propeller for ships, &c	J. David	289,994	Dec. 11	776	218	25	1030
Propeller for steam-vessels	M. S. Nelsson	281,915	July 24	1991	545	24	366
Propeller. Hydraulic	T. L. Sturtevant	274,839	Mar. 27	2039	568	23	1209
Propeller. Paddle-wheel	D. E. Dutrow	276,010	Apr. 17	1472	406	23	1495
Propeller. Reciprocating	J. A. Arthur	274,693	Mar. 27	1875	522	23	1180
Propeller. Screw	R. Bell and D. Selkirk	285,212	Sept. 18	1296	365	24	1141
Propeller. Screw	A. P. Bliven	271,212	Jan. 30	1713	496	23	350
Propeller. Screw	N. H. Borgfeldt	285,002	Sept. 18	1045	293	24	1097
Propeller. Screw	J. F. Folmer	283,592	Aug. 21	1355	378	24	757
Propeller. Screw	R. M. Fryer	283,336	Aug. 14	1039	292	24	694
Propeller. Screw	J. Gartner	274,307	Mar. 20	1368	375	23	1084
Propeller. Vibrating	W. C. Cowie	271,041	Jan. 23	1496	431, 432	23	306
Propeller. Vibrating	A. M. Freeman	272,949	Feb. 27	1741	486	23	765
Propeller. Vibrating	P. Gleason	285,480	Sept. 25	1615	453	24	1204
Propeller. Vibrating	R. M. McKee	282,656	Aug. 7	217	63, 64	24	537
Propeller. Vibrating	J. B. Merkl	270,455	Jan. 9	762	223	23	158
Propeller. Vibrating	R. Smith	289,867	Dec. 11	620	172	25	1002
Propellers. Instrument for ascertaining the pitch of screw-	D. B. Hutton	284,427	Sept. 4	328	91	24	958
Propelling boats, &c	W. Presley	284,325	Sept. 4	206	57	24	939
Propelling-wheel	B. B. Powell	286,149	Oct. 2	450	122	25	84
Propulsion of boats	F. M. Marquis	276,144	Apr. 17	1639	451, 452	23	1523
Propulsion of ships, &c	J. Kelly	286,205	Oct. 9	520	143	25	106
Protector: *See* Book-cover protector. Boot or shoe heel protector. Breast-strap protector. Brush-protector. Bung-hole protector. Chest-protector. Chimney-protector. Corset-protector. Crimp-protector. Ear-protector. Electrical-instrument protector. Electrical-wire protector. Foot and leg protector. Furnace-protector. Garment-protector. Hand-protector. Hatchway-protector. Head-wear protector. Hose-protector. Leg and foot protector. Link-protector. Mustache-protector. Oil-tank protector. Pantaloon-protector. Pants-protector. Plant-protector. Rain-protector. Skirt-protector. Sole-protector. Sole and upper protector. Stocking-protector. Telephone and telegraph protector. Tree-protector. Wash-board protector. Watch-protector. Watch hair-spring protector.							
Protractor	P. Kennelly	285,907	Oct. 2	165	47	25	32
Protractor and chart-holder. Combined	B. T. Putnam	280,328	June 26	2108	591	23	2507
Protractor, square, and bevel. Combined	J. Duckworth and E. Smith	282,966	Aug. 14	581	165	24	611
Pruning implement	J. McWilliams	279,413	June 12	1011	281	23	2303
Pruning-shears	A. De Caunes	289,995	Dec. 11	777	218	25	1030

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Mon.	Dr'g.	Vol.	Page.
Puddling-furnace	J. Bergqvist	275,115	Apr. 3	314	87	23	1280
Puddling-furnace	J. Evans	270,154	Jan. 2	418	128	23	65
Puddling-furnace. Gas-burning	J. C. Williams	289,301	Nov. 27	1764	489	25	849
Puller							
See Cork-puller. Staple-puller.							
Flax-puller. Stump-puller.							
Nail-puller. Stump and grub puller.							
Spuze-puller. Weed-puller.							
Pulley	H. R. Allen	285,789	Oct. 2	2	1	25	3
Pulley	W. F. Brown	281,286	July 24	1594	514	24	347
Pulley	W. H. Carruthers	281,489	July 24	1671	455	24	349
Pulley	H. H. Fulton and O. R. Green	279,625	May 29	2261	650	23	2004
Pulley	H. H. Fulton and O. R. Green	283,513	Aug. 7	44	13	24	508
Pulley	H. Goodman	290,572	Dec. 18	1325	430	25	1170
Pulley	W. J. Innis	285,414	Oct. 2	42	14	25	9
Pulley	W. J. Innis	285,417	Oct. 2	43	14	25	10
Pulley	J. J. Irvine	273,544	Mar. 6	380	105	23	391
Pulley	G. S. Long	274,349	Mar. 20	1422	380	23	1085
Pulley	G. S. Long	285,635	Sept. 25	1882	513	24	1220
Pulley	P. Medart	287,543	Nov. 6	63	19	25	518
Pulley	O. R. Green	280,228	June 26	1981	556	23	2085
Pulley	O. R. Green and H. H. Fulton	271,196	Jan. 23	1582	455	23	380
Pulley	A. Walton	282,622	July 31	2546	726	24	488
Pulley and attachment *for* **window-shade rollers**	S. A. Hurley	272,592	Feb. 27	1467	465	23	753
Pulley and drum. Sheet-metal	N. Macbeth	286,695	Oct. 2	394	85	25	57
Pulley. Band	W. H. Dodge	276,230	Apr. 24	1744	493	23	1540
Pulley. Belt	A. Wood	280,775	July 3	547	138	24	96
Pulley-block	A. Backman	272,196	Feb. 13	745	206	23	921
Pulley-block	T. R. Ferrall	279,553	June 19	1185	332	23	2230
Pulley-block	T. R. Ferrall	279,554	June 19	1186	332	23	2230
Pulley-block	B. Jackson and G. W. T. Carter	273,916	Apr. 17	1364	375	23	1475
Pulley-block	P. King	286,021	Oct. 2	297	83	25	55
Pulley-block	C. Maschmeyer	271,252	Jan. 30	1754	507	23	357
Pulley block and tackle	A. M. Clark	276,561	May 1	19	6	23	1630
Pulley-block. Differential	P. Murray, Jr	284,515	June 26	1964	553	23	2083
Pulley. Chain	A. B. Hendryx	285,263	Sept. 18	1355	382	24	1132
Pulley. Cone	H. Newmaker	283,646	Aug. 21	1413	396	24	788
Pulley-covering	W. W. Campbell	276,559	May 1	17	5	23	1630
Pulley-covering	W. Painter	283,356	Aug. 14	1072	301	24	780
Pulley-fastening	E. F. Spaulding	286,349	Oct. 9	713	{190 / 191}	{25}	130
Pulley for use in connection with awnings, &c.	P. C. Rowe	274,036	Mar. 13	1080	276	23	1015
Pulley guard. Band	C. E. Frick	272,677	Feb. 20	1377	387	23	686
Pulley. Hoisting	C. F. Batt	273,073	May 22	1982	521	23	1973
Pulley. Loose	G. H. Albee	277,308	Apr. 24	1719	476	23	1545
Pulley lubricator. Loose	P. Breen	271,193	Jan. 23	1088	467	23	337
Pulley or wheel	J. Walker	286,522	Nov. 13	927	253	25	677
Pulley or wheel. Belt	E. B. Martindale	286,339	Oct. 9	691	184	25	135
Pulley rig. Dead	H. C. Crowell	285,467	Sept. 25	1682	459	24	1201
Pulley rig. Dead	H. C. Crowell	289,073	Nov. 27	1689	446	25	812
Pulley, roller, or friction-wheel	J. W. Osborne	287,567	Oct. 30	2361	614	25	440
Pulley, roller, or friction-wheel	J. W. Osborne	289,367	Nov. 27	1962	546	25	878
Pulley, roller, or wheel	J. W. Osborne	287,568	Oct. 30	2363	{614 / 615}	{25}	441
Pulley, roller, or wheel	J. W. Osborne	289,368	Nov. 27	1964	547	25	878
Pulley. Self-belting	J. E. Donovan	270,098	Jan. 2	238	69	23	69
Pulley. Split	H. Lilley and J. T. Hillsley	277,910	May 22	1706	466	23	1939
Pulley. Split	G. B. Sanborn	275,947	Apr. 17	1397	385	23	1462
Pulley tightening device. Belt	N. W. Holt	273,081	Feb. 27	1888	530	23	792
Pulley-wheel	E. L. Babcock	285,969	Oct. 2	111	33	25	22
Pulley-wheel	J. Walker	286,386	Nov. 13	702	205	25	647
Pulley. Wood-rim	W. W. Carey	271,416	Jan. 30	1972	570	23	396
Pulley. Wood rim	W. W. Carey	282,161	July 31	2313	635	24	494
Pulley. Wood-rim	A. S. Ladd	284,133	Aug. 28	2040	567	24	891
Pulleys, &c. Taper-sleeve fastening for	H. C. Crowell	281,618	July 17	1600	{437 / 438}	{24}	292
Pulp and fiber. Machine for reducing wood to	G. F. Evans	279,551	June 19	1183	327	23	2230
Pulp and similar material. Machinery for assorting wood	N. Kaiser	276,250	Apr. 24	1788	492	23	1553
Pulp-engine roll-bar	A. Hankey	288,234	Nov. 13	548	151	25	612
Pulp-extractor. Automatic	S. L. Gould	277,288	May 8	942	{252 / 253}	{23}	1794
Pulp from sugar-cane, &c. Producing	E. C. Le Bourgeois	287,302	Oct. 23	1931	.....	25	389
Pulp from wood, &c. Making	E. Thompson	287,980	Nov. 6	240	68	25	549
Pulp grinder	W. H. Howell	272,258	Feb. 13	836	233	23	397
Pulp. Machine for assorting wood	F. Voith	289,187	Nov. 27	1747	485	25	836
Pulp. Machine for forming hollow ware from wood	J. G. Bodge	287,614	Oct. 30	2342	632	25	454
Pulp machine. Wood	R. Cartmell and A. Ball	286,902	Oct. 16	1413	{388 / 389}	{25}	270
Pulp-strainer	H. Reinicke	287,164	Oct. 23	1749	479	25	337
Pulp-washing machine	E. J. F. Quirin	284,232	Sept. 4	97	27	24	221
Pulverizer	H. Bailey	275,566	Apr. 10	915	248	23	1380
Pulverizer and grader. Combined	W. Commeans	284,946	Sept. 11	963	270	24	1076
Pulverizer and stalk-cutter. Ground	J. V. Harter	282,724	Aug. 7	310	88	24	554
Pulverizer. Soil	R. B. Lillie	278,503	June 5	170	50	23	2151
Pulverizing apparatus	A. E. Griffiths	276,394	Apr. 24	1964	544	23	1586
Pulverizing-machine	H. B. Feldmann	275,031	Apr. 3	200	53, 54	23	1260
Pulverizing-machine	H. B. Feldmann	290,874	Dec. 25	1910	527	25	1244
Pulverizing-machine	R. D. Gates	270,217	Jan. 9	467	{136 / 137}	{23}	102
Pulverizing-machine	R. D. Gates	286,220	Oct. 9	650	173	25	198
Pulverizing-machine	R. D. Gates	287,652	Oct. 30	2393	645	25	465
Pulverizing machine	R. D. Gates	288,050	Nov. 6	398	92	25	563
Pulverizing-machine	T. M. Rogers	276,145	Apr. 17	1641	452	23	1594
Pulverizing-machine	S. P. M. Tasker	274,050	Mar. 13	1082	289	23	1017

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pulverizing-machine hopper	H. B. Feldmann	274,090	Mar. 13	1081	298	23	1027
Pulverizing-machine hopper	S. P. M. Tasker	274,051	Mar. 13	1026	281	23	1018
Pulverizing machine. Soil-	C. W. Smith	281,149	July 10	998	279	24	183
Pump	H. M. D. L. Babcox	284,708	Sept. 11	678	191	24	1025
Pump	C. E. Barber	274,551	Mar. 27	1704	473	23	1149
Pump	G. F. Beebe	279,214	June 12	748	206	23	2261
Pump	G. F. Blake	271,775	Feb. 6	227	63	23	480
Pump	G. Brett	273,663	Mar. 6	538	145	23	926
Pump	H. Caslow	285,226	Sept. 18	1313	370	24	1144
Pump	G. M. Conway	273,962	Mar. 13	923	253	23	999
Pump	L. B. Cooley	285,015	Sept. 18	1061	297	24	1100
Pump	D. M. Cooper	276,226	Apr. 24	1738	481	23	1548
Pump	G. H. Corliss	276,003	Apr. 17	1462	403	23	1494
Pump	J. Cox	273,261	Mar. 6	21	7	23	838
Pump	C. S. Dean	288,030	Nov. 6	303	86	25	559
Pump	D. Dieckmann and C. Schmiedtsinsky.	289,517	Dec. 4	182	51	25	918
Pump	T. Dowling	279,923	June 26	1616	454	23	2421
Pump	J. B. Drake	282,864	Aug. 7	467	132	24	583
Pump	J. B. Drake	285,241	Sept. 18	1331	375	24	1147
Pump	W. Eames	280,920	July 10	717	201	24	133
Pump	J. Everitt	282,973	Aug. 14	588	166	24	612
Pump	C. L. Fouts	289,079	Nov. 27	1617	448	25	813
Pump	A. Fyfe and T. Rawson	285,402	Sept. 25	1525	429	24	1187
Pump	R. P. Garsed	285,477	Sept. 25	1612	452	24	1203
Pump	H. C. Hall	274,760	Mar. 27	1949	542	23	1194
Pump	C. J. Hamilton	270,789	Jan. 16	1193	344	23	248
Pump	F. B. Hanson	274,937	Apr. 3	68	19	23	1237
Pump	J. Harris	273,985	Mar. 13	949	261	23	1004
Pump	W. H. and C. A. Holcombe	281,695	July 24	1707	464	24	315
Pump	A. G. Hollister	287,935	Nov. 6	183	52, 53	25	539
Pump	G. H. Holt	279,949	June 26	1652	463	23	2427
Pump	A. J. Hopkins	274,446	Mar. 20	1554	425, 426	23	1117
Pump	S. Jackson	270,900	Jan. 23	1329	383, 384	23	279
Pump	H. M. Johnston	276,048	Apr. 17	1519	418	23	1502
Pump	H. and J. Kelly	289,270	Nov. 27	1836	507	25	854
Pump	J. M. Laing	284,310	Sept. 4	188	53	24	936
Pump	W. H. Lambert and G. C. Deems	274,791	Mar. 27	1988	552	23	1200
Pump	W. S. Marshall	289,288	Nov. 27	1862	517	25	859
Pump	M. E. Moore	279,561	June 19	1216	337	23	2344
Pump	P. A. Myers	276,865	May 1	496	114	23	1701
Pump	P. A. Myers	282,755	Aug. 7	339	96	24	559
Pump	L. Patric	274,965	Apr. 3	107	30, 31	23	1243
Pump	P. T. Perkins	287,461	Oct. 30	2124	577	25	412
Pump	J. W. Powers	287,053	Oct. 23	1612	444	25	311
Pump	J. B. Root	280,402	July 3	77	21	24	16
Pump	W. R. Smith and N. H. Bigger	272,343	Feb. 13	936	260	23	614
Pump	M. D. Temple	285,443	Sept. 25	1574	443	24	1196
Pump	J. Wock	285,093	Sept. 18	1156	323	24	1116
Pump. Air-	R. P. Garsed	289,641	Dec. 4	333	93	25	946
Pump. Air-	C. Moore. (Reissue)	10,374	Aug. 28	2076	577	24	897
Pump and preserver. Beer	E. Sharfenberg	271,659	Feb. 6	89	24	23	456
Pump and ventilator. Rotary	L. B. Villebonnet	281,165	July 10	1016	284	24	186
Pump and water-wheel. Centrifugal	S. S. Richardson	289,559	Dec. 4	235	67	25	928
Pump. Barrel-	L. E. and E. E. Guignon	286,428	Oct. 9	815	221	25	158
Pump. Beer-	R. B. Ruggles	272,089	Feb. 13	628	171	23	560
Pump-box	D. D. Casey	290,211	Dec. 18	1037	292	25	1086
Pump-bucket	T. C. Munger	284,048	Aug. 28	1930	540	24	872
Pump-bucket	J. La Tourette	276,695	May 1	206	53	23	1659
Pump bucket. Chain-	A. R. Forney and J. L. Stoever	280,597	July 3	312	87	24	56
Pump bucket. Chain-	L. M. Rumsey	271,522	Jan. 30	2112	608	23	421
Pump bucket. Chain-	O. E. Wadhams	287,348	Oct. 23	1985	541	25	379
Pump-bucket. Rubber	J. W. Voglesong	274,061	Mar. 13	1042	287	23	1020
Pump-casing	G. W. Weyburn	280,105	June 26	1842	519	23	2461
Pump. Centrifugal	C. A. Christensen	288,409	Nov. 13	790	214	25	653
Pump. Centrifugal	N. Didiot	287,508	Oct. 30	2185	593	25	424
Pump. Chain-	H. Jones	282,900	Aug. 7	508	142	24	590
Pump. Chain-	J. C. Kearns	283,894	Aug. 28	1722	486	24	835
Pump-chains. Machine for making	E. J. Watson	280,422	July 3	101	27, 28	24	20
Pump. Compound	H. C. Langrehr	280,835	July 10	619	174	24	115
Pump. Compound	H. C. Langrehr	283,257	Aug. 14	943	263, 264	24	675
Pump condenser. Steam-	W. A. Miles	271,096	Jan. 23	1569	452	23	318
Pump condenser. Steam-	W. A. Miles	271,097	Jan. 23	1570	452	23	318
Pump condenser. Steam-	W. A. Miles	272,456	Feb. 20	1097	309	23	647
Pump condenser. Steam-	W. A. Miles	272,457	Feb. 20	1098	310	23	647
Pump. Deep-well	G. A. and L. H. Kimball	271,082	Jan. 23	1556	448	23	316
Pump. Direct-acting steam-	J. E. Sinclair	279,452	June 12	1055	292	23	2311
Pump. Direct-action steam-	J. Henwood	284,010	Aug. 28	1889	529, 530	24	865
Pump. Double-acting	H. Q. French and G. G. Shenton	271,829	Feb. 6	295	81	23	493
Pump. Double-acting	J. Henwood	277,279	May 8	954	256	23	1797
Pump. Double-acting	D. S. Hines, W. A. Perry, and C. C. Worthington.	289,535	Dec. 4	205	57, 58	25	922
Pump. Double-acting	T. O. Perry	288,108	Nov. 6	395	111, 112	25	576
Pump. Double-acting	J. Singler	290,125	Dec. 11	931	264	25	1059
Pump. Double-acting	N. A. Wolcott	278,208	May 22	2075	572	23	2003
Pump. Double-acting force-	J. B. Griswold	276,172	Apr. 24	1675	463	23	1537
Pump. Double-acting steam-	E. Davies	287,252	Oct. 23	1866	511	25	357
Pump. Double-action	G. B. McCoy	276,614	May 1	85	23	23	1642
Pump fixture. Chain-	M. D. Temple	274,409	Mar. 20	1495	412	23	1107

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Pump for oil-tanks	F. Sloan	272,340	Feb. 13	933	259	23	614
Pump for steam-boilers. Compound feed	J. Houpt	285,622	Sept. 25	1787	508	24	1236
Pump. Force	A. Annibale	272,616	Feb. 20	1305	364	23	663
Pump. Force	W. A. Bickford	269,013	Jan. 2	106	31	23	22
Pump. Force	T. Calver	288,007	Nov. 6	280	79	25	555
Pump. Force	P. T. Coffield	276,134	Apr. 17	1628	449	23	1521
Pump. Force	W. Johnston	284,859	Sept. 11	860	242	24	1057
Pump. Force	M. L. G. Wheeler	280,106	June 26	1842	519	23	2461
Pump. Forcing and mixing	J. W. Galloway	275,632	Apr. 10	1003	271	23	1405
Pump-frame	J. Preston	274,141	Mar. 20	1152	317	23	1047
Pump. Gas	F. Stitzel	283,036	Aug. 14	671	189	24	626
Pump-handle bracket	R. M. Lafferty	272,889	Feb. 27	1674	468	23	755
Pump iron. Chain	C. H. Miller	281,106	July 10	938	262	24	173
Pump-joint. Sleeping-car	J. Kirby, Jr	281,192	July 10	1056	291	24	194
Pump. Lift	H. C. Langrehr	280,834	July 10	618	173, 174	24	115
Pump. Measuring	S. M. Cole	270,021	Jan. 2	229	67	23	47
Pump. Measuring	H. E. Marchand	275,680	Apr. 10	1060	288	23	1415
Pump. Measuring	H. E. Marchand	287,697	Oct. 30	2447	659	25	475
Pump. Oil-can	E. M. Turner	283,834	Aug. 28	1652	465, 466	24	893
Pump-piston	L. L. Bigelow	279,318	June 12	876	243	23	2282
Pump-piston	J. O. Davis	272,662	Feb. 20	1361	382	23	683
Pump-piston	S. W. George	274,308	Mar. 20	1368	375	23	1085
Pump-piston	C. Newburgh	277,919	May 22	1715	468	23	1941
Pump-piston	A. S. Parke	279,663	June 19	1310	364	23	2361
Pump reel. Chain	W. P. Harrison	272,483	Feb. 20	1070	301	23	642
Pump-regulator	J. H. Blessing	282,042	July 31	2145	588, 589	24	397
Pump regulator. Steam	W. D. Hooker	288,436	Nov. 13	820	222	25	658
Pump regulator. Steam	J. Wagner	287,069	Oct. 23	1634	449	25	315
Pump-rod coupling	O. R. Mehaffey	275,065	Apr. 3	244	67	23	1268
Pump. Rotary	C. Comstock	283,377	Aug. 21	1104	311, 312	24	711
Pump. Rotary	G. W. Hunter	273,737	Mar. 13	642	171	23	952
Pump. Rotary	G. W. Shamp	283,153	Aug. 14	808	226	24	650
Pump. Rotary double piston	E. Neff, W. Enders, and J. B. Fieser	275,844	Apr. 17	1281	352	23	1460
Pump. Rotary steam	J. Moffet	276,857	May 1	414	110	23	1699
Pump. Ship's	A. Russell and F. Curtis	274,145	Mar. 20	1156	318, 319	23	1047
Pump. Ship's	A. Russell and F. Curtis. (Reissue)	10,418	Dec. 4	524	145	25	977
Pump. Steam	J. H. Blessing	283,064	Aug. 14	705	198	24	633
Pump. Steam	C. Rosine	287,863	Nov. 6	86	25	25	523
Pump. Steam	E. Thayer	274,154	Mar. 20	1169	323	23	1050
Pump. Steam	G. B. N. Tower	270,515	Jan. 9	846	246	23	175
Pump. Steam	B. C. Vanduzen	288,384	Nov. 13	753	205	25	646
Pump. Steam vacuum	G. A. Greeven	283,101	Aug. 14	750	211	24	640
Pump-stroke regulator	J. Bundy	283,070	Aug. 14	710	199	24	634
Pump tubing. Well	J. Marsden	285,909	Oct. 2	166	47	25	32
Pump. Vacuum	W. F. Garrison	280,600	July 3	314	88	24	56
Pump. Vacuum	E. Weston	283,545	Aug. 21	1296	363	24	746
Pump-valve	J. H. Blessing	272,198	Feb. 13	760	209	23	583
Pump-valve	J. Flower	276,170	Apr. 24	1673	462, 463	23	1537
Pump-valve	W. H. Guild	276,805	May 1	351	94	23	1687
Pump-valve	T. F. Lemassena	289,668	Dec. 4	366	103	25	951
Pump-valve	W. P. Olden	270,102	Jan. 2	315	93	23	64
Pump-valve	J. E. Sinclair	270,853	Jan. 16	1264	364	23	262
Pump-valve	F. Stock, Jr	286,742	Oct. 16	1213	327	25	235
Pump valve. Air	G. B. Brayton	269,914	Jan. 2	107	32	23	22
Pump valve and valve-gear. Steam	J. R. Vellacott	273,645	Mar. 6	519	139	23	923
Pump-valve. Steam-actuated	L. Lamy	284,744	Sept. 11	724	202	24	1033
Pump valves. Operating steam	C. A. Goyne	289,250	Nov. 27	1816	502	25	850
Pump. Windmill	E. S. Smith	270,256	Jan. 9	509	149	23	110
Pumps. Automatic leak-valve for	J. Watson	288,283	Nov. 13	612	168	25	693
Pumps. Feed-water adjustment for	N. W. Hawkinson	273,276	Mar. 6	37	12	23	841
Pumps in deep wells and mines. Operating	J. H. Huffer	270,671	Jan. 16	1048	300	23	220
Pumps. Journal-bearing and dog for chain	C. L. Merrill	278,992	June 5	460	126	23	2202
Pumps. Motor for operating	H. Melde	287,950	Nov. 6	203	59	25	543
Pumps. Rubber bucket for chain	M. D. Temple	290,282	Dec. 18	1129	317	25	1101
Pumps. Suction-condenser for steam	T. Blass	289,748	Dec. 4	474	134	25	969
Pumps to oil and other cans. Device for attaching	W. G. Holden	279,165	June 12	702	191	23	2253
Pumps. Utilizing the exhaust of steam	H. W. Robie and W. H. Lyons	286,074	Oct. 2	363	101	25	67
Pumping and flowing oil-wells. Apparatus for	E. S. Williamson	276,116	Apr. 17	1608	443	23	1517
Pumping and measuring machine. Adjustable	M. H. Richards	286,070	Oct. 2	358	99	25	66
Pumping and other machinery. Equalizing apparatus for	C. Bridges	270,007	Jan. 2	215	62	23	44
Pumping apparatus	W. R. Eckart	275,473	Apr. 10	804	217	23	1371
Pumping apparatus for deep wells and mines	J. H. Huffer	278,019	May 22	1841	502	23	1962
Pumping Artesian wells. Machine for	T. Korner	287,444	Oct. 30	2103	572	25	408
Pumping-engine	A. E. and M. W. Hall	289,648	Dec. 4	342	97	25	948
Pumping-engine	E. H. Martin	279,407	June 12	1006	279	23	2302
Pumping-engine	J. Waters	279,679	June 19	1330	370	23	2364
Pumping-engine condenser	W. A. Miles	272,458	Feb. 20	1098	310	23	647
Pumping-engine. Duplex	G. F. Blake	270,575	Jan. 16	923	266, 267	23	198
Pumping-engine. Geared	H. F. Gaskill	289,828	Dec. 11	571	159, 160	25	993
Pumping-engine. Steam	G. F. Blake	270,574	Jan. 16	922	266	23	197
Pumping-engine. Steam	C. P. Deane	288,214	Nov. 13	523	145	25	608
Pumping-engine. Steam	H. F. Gaskill	281,261	July 17	1156	319	24	218
Pumping-engine. Steam	P. S. Kingsland	272,264	Feb. 13	845	235	23	599
Pumping mechanism for supplying railway-tanks	R. P. Garsed	282,070	July 31	2186	600	24	404
Pumping system for surface-condensers	C. W. Copeland	273,965	Mar. 13	928	264	23	1001

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Punch. Eyeleting	C. Morrill	279,493	June 12	1103	304	23	2318
Punch for nut-machines	G. G. McMurtry	274,957	Apr. 3	98	27	23	1242
Punch-grinding machine	W. L. Hayes	274,322	Mar. 20	1383	380	23	1067
Punch. Hand	W. H. Newton	271,104	Jan. 23	1578	454	23	319
Punch-holder	C. Gray	280,608	July 3	325	91	24	58
Punch. Sheet-metal	F. W. Toedt	278,633	May 29	2633	720	23	2108
Punch. Ticket	W. H. Campbell	281,835	July 24	1891	516	24	349
Punch. Ticket	R. Woodman	285,867	Oct. 2	109	32	25	21
Punching and countersinking machine. Combined	W. E. Highfield	289,835	Dec. 11	581	162	25	995
Punching and cutting machine	E. Salomon	272,332	Feb. 13	923	257	23	612
Punching and drawing press	J. Gardner	271,831	Feb. 6	297	81	23	493
Punching and registering tickets. Apparatus for	M. Bebro	269,911	Jan. 2	103	31	23	22
Punching and shearing machine	J. M. Sailer	271,277	Jan. 30	1789	519	23	363
Punching-machine	A. Albien	283,740	Aug. 28	1538	435	24	803
Punching-machine	H. H. Packer	272,151	Feb. 13	704	193, 194	23	573
Punching-machine	A. F. Spooner	289,577	Dec. 4	267	72	25	933
Punching machine. Metal	M. G. Wilder and C. T. Parry	277,817	May 15	1587	434, 435	23	1912
Punching-press	E. Jordan	290,433	Dec. 18	1335	370	25	1137
Purifying, heating, and condensing apparatus	G. B. Field	272,831	Feb. 20	1568	441	23	731
Purse	G. B. Adams	288,539	Nov. 13	945	258	25	680
Purse-frame	C. Beard and C. E. Baldwin	284,364	Sept. 4	250	69	24	946
Purse or bag clasp	E. Sontheimer	277,064	May 8	699	192	23	1752
Purses. Fastening for closing	A. Alexandre	284,791	Sept. 11	786	219	24	1043
Putting-out machine	W. M. Hoffman	288,941	Nov. 20	1440	397	25	775
Putting-out machine	J. W. Vaughn	274,858	Mar. 27	2063	574, 575	23	1213
Putty. Commercial	R. W. Davis	271,973	Feb. 6	471	.....	23	523
Puzzle	J. U. Mackenzie	278,571	May 29	2553	697	23	2095
Puzzle	R. H. and J. T. Williams	284,525	Sept. 4	448	127	24	980
Puzzle. Combination numerical instruction	S. McCleary	284,037	Aug. 28	1919	537	24	870
Puzzle. Mechanical	W. J. Decker	286,395	Oct. 9	778	210	25	152
Puzzle or toy	F. W. Davenport	277,120	May 8	770	203	23	1764
Pyroxyline compounds. Treating	W. McCaine	276,443	Apr. 24	2020	.....	23	1597
Pyroxyline fabric	J. A. McClelland	271,493	Jan. 30	2077	598	23	415
Pyroxyline. Machine for treating compounds of	A. Olszewski	280,659	July 3	382	107, 108	24	68
Pyroxyline. Manufacture of	J. W. Hyatt and F. V. Pool	274,335	Mar. 20	1405	.....	23	1091
Pyroxyline, &c. Treating	D. and D. McCaine	286,212	Oct. 9	529	.....	25	108
Quadricycle for land and water	H. S. Blanchard	277,667	May 15	1420	383	23	1882
Quilt-holder. Safety	C. Lassen	275,671	Apr. 10	1052	285	23	1414
Quilting-frame	R. B. Bledsoe	281,605	July 17	1581	433	24	289
Quilting-frame	R. B. Bledsoe	281,826	July 24	1882	514	24	347
Quilting-frame	H. T. Davis	271,688	Feb. 6	124	34	23	461
Quilting-frame	J. Pratt	274,967	Apr. 3	110	31	23	1244
Quilting-machine	L. Schultz	281,732	July 24	1756	476, 477, 478	24	324
Quilting-frame	E. H. Taliaferro	289,171	Nov. 27	1720	480	25	832
Quilting-frame clamp	J. T. Snapp	290,940	Dec. 25	1997	551	25	1259
Quilting-frame for sewing-machines	H. T. Davis	271,689	Feb. 6	124	34	23	461
Quilting-machine	E. Barton	271,403	Jan. 30	1957	566	23	393
Quilting-machine	A. Beck	276,657	May 1	145	37	23	1651
Quilting-machine	A. Beck	279,632	June 19	1272	353	23	2355
Quilting-machine	A. Brenzinger	289,884	Dec. 11	643	179	25	1005
Quilting-machine	W. Koch	271,475	Jan. 30	2056	592	23	411
Quilting-machine	L. Schultz	276,480	Apr. 24	2065	573, 574	23	1604
Quilting-machine	J. Thomas	289,579	Dec. 4	260	73	25	933
Quoit	H. F. Mann	281,773	July 24	1814	495	24	335
Rack:							
See Advertising-card rack.							
Barrel-rack.							
Clothes-rack.							
Clothes and towel rack.							
Dish-draining rack.							
Display-rack.							
Drying-rack.							
Egg-rack.							
Feed-rack.							
Hay-rack.							
Hay and grain rack.							
Key-rack.							
Pen-rack.							
Piano music-rack.							
Pool-ball rack.							
Pool-table-ball rack.							
Rein-rack.							
Umbrella and parasol rack.							
Wagon-rack.							
Watch show-rack.							
Whip-rack.							
Rack and truck	O. Wilson	290,160	Dec. 11	968	273	25	1066
Rack for graduated glass measures, &c	F. L. McKee	278,161	May 22	2012	554	23	1992
Radiating apparatus. Steam and water heat	L. Crusius	279,721	June 19	1375	384	23	2372
Radiator	T. McAvity, Jr	281,897	July 24	1972	539	24	362
Radiator attachment. Steam	R. T. Crane	287,099	Oct. 23	1672	459	25	323
Radiator attachment. Steam	G. Engel	275,757	Apr. 10	1163	319	23	1433
Radiator for furnaces	D. S. Richardson	272,396	Feb. 13	916	255	23	611
Radiator for furnaces	D. S. Richardson	279,666	June 19	1313	365	23	2361
Radiator. Steam	G. B. Boomer	289,965	Dec. 11	736	208	25	1023
Radiator. Steam	G. Clark	286,760	Oct. 16	1259	340	25	243
Radiator. Steam	J. Collis	290,665	Dec. 25	1641	452	25	1196
Radiator. Steam	S. F. Gold	288,995	Nov. 27	1509	417	25	795
Radiator. Steam	E. F. Gordon and H. Hobbs	271,330	Jan. 30	1861	539	23	375
Radiator. Steam	P. Gormly and L. Bridge	270,053	Jan. 2	265	77	23	54
Radiator. Steam	A. A. Griffing	273,066	Feb. 27	1873	526	23	789
Radiator. Steam	H. Macdonald	271,723	Feb. 6	163	45	23	468
Radiator. Steam	S. H. Morrill	287,770	Oct. 30	2549	686	25	493
Radiator. Steam	D. Renshaw	274,826	Mar. 27	2025	564	23	1207
Radiator. Steam and hot-water	J. Haag	287,122	Oct. 23	1700	465	25	328
Radiator tube. Steam	J. Keefe	273,740	Mar. 13	645	172	23	953

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rag-cutting machine	L. Baumann	286,373	Oct. 9	748	201	25	146
Rag-engine	G. W. Cressman	289,235	Nov. 27	1800	498	25	847
Rag-joining knife	J. A. Fulwiler	288,991	Nov. 27	1506	416	25	794
Rags and waste from shoddy. Process of and apparatus for picking	F. L. Palmer	280,076	June 26	1808	509	23	2454
Rail-dog	J. Findlay	285,352	Sept. 18	1454	409	24	1169
Rail for railways and tramways	G. Cowdery and E. R. Thomas	289,626	Dec. 4	313	88	25	942
Rail for street-car tracks	A. J. Moxham	289,355	Nov. 27	1944	540	25	874
Rail-joint	C. F. Hartman	274,593	Mar. 27	1757	488	23	1159
Rail-joint	W. Seaton	280,406	July 3	82	22	24	17
Rail-joint fastener	G. F. Hoeffer	273,735	Mar. 13	640	171	23	932
Rail-joint. Insulated	T. A. B. Putnam	284,668	Sept. 11	620	175, 176	24	1015
Rail-joint splice-bar	J. S. Seaman	276,900	May 1	469	124	23	1708
Rail-lifter	F. Jackson and E. R. Austin	274,609	Mar. 27	1777	494	23	1163
Rail-spike	H. W. Fowler	279,736	June 19	1392	388	23	2375
Rail-straightening machine	W. K. Seaman. (Reissue)	10,276	Jan. 23	1703	492	23	340
Rail-straightening machine	C. P. Tittle	283,535	Aug. 21	1283	359	24	744
Rail straightening or bending machine	P. Frichett	273,353	Mar. 6	150	42	23	859
Rail-supporter	R. H. Wingate	288,907	Nov. 20	1399	386	25	767
Rail. System of transport on a single	C. F. M. T. Lartigue	270,083	Jan. 2	296	88	23	60
Rail-tie	E. B. Hungerford	276,414	Apr. 24	1986	550	23	1590
Rails and bars. Apparatus for bending	L. Vojáček	274,678	Mar. 27	1855	517	23	1177
Rails. Tool for cutting slots in	J. K. P. Renfroe	274,659	Mar. 27	1832	508	23	1173
Railing. Iron	J. C. Erb	282,180	July 31	2346	646	24	428
Railway-alarm. Automatic	F. Clifford	279,225	June 12	761	210	23	2363
Railway and car	L. Augspath	283,947	Aug. 28	1792	507	24	849
Railway and car. Elevated	S. R. Thompson	270,513	Jan. 9	844	246	23	176
Railway and locomotive. Electric	W. M. Thomas	288,513	Nov. 13	918	251	25	675
Railway and working-car. Combined portable	T. Dark	280,802	July 10	582	162	24	109
Railway apparatus. Cable	C. W. Rasmusen	290,707	Dec. 25	1695	467, 468	25	1906
Railway apparatus. Cable	C. W. Rasmusen	290,708	Dec. 25	1699	468, 469, 470	25	1907
Railway. Automatic electric	E. N. Dickerson, Jr., and C. G. Curtis.	270,209	Jan. 9	452	132, 133	23	100
Railway-bar joints. Screw or nut fastening for	B. F. Crocker	287,806	Nov. 6	20	7	25	511
Railway-brake	S. G. Colquhoun	276,359	Apr. 24	1915	531	23	1578
Railway-brake	J. Woods	273,214	Feb. 27	2065	580	23	893
Railway-brake connection	G. Westinghouse, Jr	288,388	Nov. 13	764	206	25	648
Railway-bridge indicator	E. A. Gross	289,770	Dec. 4	491	137	25	972
Railway, bridging, &c. Elevated	L. T. Pyott	276,878	May 1	441	118	23	1704
Railway-buffer stop	A. A. Langley	271,478	Jan. 30	2061	593	23	412
Railway. Cable	A. S. Hallidie	276,239	Apr. 24	1758	489	23	1552
Railway. Cable	W. McCall and J. V. De Vry	280,044	Oct. 2	325	90, 91	25	60
Railway. Cable	H. Root	285,514	Sept. 25	1654	465	24	1211
Railway. Cable street	W. Haddock	275,378	Apr. 10	672	179	23	1349
Railway cattle-guard	B. F. Dillon and A. Gartner	275,333	Apr. 3	590	158	23	1326
Railway-chair	W. P. Comstock, Jr	290,209	Dec. 18	1035	291	25	1086
Railway-chair	C. E. Mark	285,142	Sept. 18	1221	343	24	1126
Railway-chair	A. E. Mersiowsky	290,189	Dec. 11	1001	282	25	1071
Railway-chair	J. H. Ream	274,377	Mar. 20	1456	399	23	1100
Railway chair and joint	T. J. Christy	271,573	Jan. 30	2171	625	23	430
Railway chair and tie	L. Haas	282,309	July 31	2497	686	24	455
Railway coaling-station	W. H. Ridgway	276,077	Apr. 17	1550	428	23	1508
Railway-conductor. Electric	L. Daft	289,897	Dec. 11	658	184	25	1008
Railway cross-tie	H. F. Flickinger	283,230	Aug. 14	904	252	24	668
Railway cross-tie	J. Mahoney and D. W. Shockley	280,200	June 26	1942	546	23	2478
Railway-crossing	J. C. Coulter	290,541	Dec. 18	1481	409	25	1162
Railway-crossing	H. F. Cox. (Reissue)	10,265	Jan. 2	434	126	23	89
Railway-crossing	E. Evans	275,028	Apr. 3	195	52	23	1258
Railway-crossing	D. Lippy	273,112	Feb. 27	1937	543	23	800
Railway-crossing	D. C. Pierce	285,511	Sept. 25	1650	464	24	1210
Railway-crossing alarm	J. A. B. Lovett	272,723	Feb. 20	1434	402, 403	23	706
Railway crossing and station signal	W. B. Wood	275,313	Apr. 3	549	149	23	1319
Railway-crossing barrier or gate	W. B. Morris	271,102	Jan. 23	1575	453	23	319
Railway-crossing gate	E. J. Henkle	287,674	Oct. 30	2413	651	25	469
Railway-crossing gate or signal	T. A. B. Putnam	284,669	Sept. 11	622	176	24	1015
Railway-crossing signal and alarm	H. H. Liemke	271,876	Feb. 6	350	97	23	502
Railway-crossings. Automatic alarm device for	E. E. Ries	282,776	Aug. 7	363	103	24	564
Railway. Electric	F. B. Crocker, C. G. Curtis, and S. S. Wheeler.	281,672	July 24	1675	456	24	310
Railway. Electric	L. Daft	276,569	May 1	32	9	23	1633
Railway. Electric	C. J. Van Depoele	285,858	Oct. 2	98	29	25	19
Railway electric signal apparatus	C. A. Scott	282,229	July 31	2400	660	24	439
Railway electric signaling apparatus	C. A. Scott	282,230	July 31	2403	661	24	440
Railway. Electrical	T. A. Edison	273,494	Mar. 6	323	88	23	889
Railway. Elevated	G. W. Cook	271,425	Jan. 30	1983	572, 573	23	398
Railway. Elevated	E. S. Watson	288,194	Nov. 6	494	137, 138	25	593
Railway. Elevated endless single-track	W. R. Bishop and R. W. Eames	288,400	Nov. 13	780	211	25	651
Railway. Elevated wire	S. H. Knapp and A. E. Adams	282,200	July 31	2368	652	24	432
Railway fog-signal	W. S. Phelps	287,157	Oct. 23	1741	477	25	336
Railway foot-guard	F. W. Spencer	287,973	Nov. 6	232	66	25	548
Railway-frog	A. H. Gorton, O. C. Patchell, and W. E. Gorton.	287,274	Oct. 23	1891	517	25	362
Railway-frog	W. J. Morden	288,652	Nov. 20	1090	299	25	712
Railway-frog	D. C. Pierce	276,070	Apr. 17	1543	425	23	1507
Railway-frog	W. H. Waters	270,521	Jan. 9	853	248	23	177
Railway-frogs, &c. Safety-guard for	J. F. Webb	279,849	June 19	1522	426	23	2398
Railway-gate	L. L. Ballard and J. W. Craig	285,951	Oct. 2	221	62	25	42

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Railway-gate	C. A. Ely	289,244	Nov. 27	1810	500	25	848
Railway-gate	G. A. Hall	289,631	Aug. 7	191	55, 56	24	533
Railway-gate	G. A. Hall and G. S. Fogg	280,307	June 26	2080	586	23	2503
Railway-gate	S. B. Langford	288,580	Nov. 13	995	274	25	690
Railway-gate	M. H. Lantz	286,713	Oct. 16	1179	317	25	229
Railway-gate	D. McNeely and J. A. Drake	287,147	Oct. 23	1729	473	25	334
Railway-gate	C. F. Strack	272,099	Feb. 13	646	175, 176	23	563
Railway gates or signals. Electrically operating	T. A. B. Putnam	284,670	Sept. 11	626	177	24	1016
Railway grip. Cable-	A. H. Lighthall	288,180	Nov. 6	479	132, 133	25	591
Railway gripping attachment. Cable-	W. Haddock	275,379	Apr. 10	676	180	23	1350
Railway-guard	S. J. Gray	290,770	Dec. 25	1783	493	25	1223
Railway-head	W. E. Whitehead	284,585	Sept. 4	521	146	24	992
Railway-head stop-motion	C. A. Tabor	288,137	Nov. 6	425	120	25	582
Railway-heads. Evener for	A. Schaer	287,585	Oct. 30	2298	621, 622	25	457
Railway-joints. Combined chair and fish-plate for	H. B. Nickerson	288,656	Nov. 20	1093	300	25	713
Railway metallic cross-tie and trough	G. L. Putnam	285,842	Oct. 2	74	22	25	15
Railway. Mine-	J. G. Thompson	290,143	Dec. 11	951	269	25	1063
Railway operated by underground ropes	J. B. Low	280,384	July 3	54	15	24	12
Railway. Pneumatic	E. F. Melony	273,297	Mar. 6	70	20	23	846
Railway pneumatic switch and electric indicator	C. A. Cooper	281,839	July 24	1897	517	24	350
Railway. Portable elevated	B. S. Curtis and J. A. Cook	285,116	Sept. 18	1185	332	24	1121
Railway pressure-brakes. Relief-valve for	R. J. Wilson	284,154	Aug. 28	2067	574	24	895
Railway-rail	W. M. Dayton	289,628	Dec. 4	315	88	25	943
Railway-rail	J. F. Hanlon	276,242	Apr. 24	1760	490	23	1552
Railway-rail	A. McKenney	277,766	May 15	1538	418	23	1903
Railway-rail and rail-joint	P. A. Locke	282,739	Aug. 7	324	92	24	556
Railway rail and tie elevator and lifting-jack	T. C. Naramore	276,452	Apr. 24	2034	565	23	1599
Railway-rail brace	M. R. Perkins	287,573	Oct. 30	2273	616	25	442
Railway-rail chair	C. Armstrong and G. Abbott	272,617	Feb. 20	1306	364	23	683
Railway-rail chair	J. McMurtry	285,642	Sept. 25	1809	515	24	1240
Railway-rail. Compound	N. D. Wright	285,196	Sept. 18	1278	359	24	1138
Railway-rail coupling	H. Parker	280,760	July 3	519	146	24	92
Railway-rail cross-tie and fastening	L. O. Orton	290,793	Dec. 25	1806	500	25	1227
Railway-rail curving and straightening machine	L. C. Brastow and G. W. Twining	275,881	Apr. 17	1328	365	23	1469
Railway-rail cushion and joint	W. F. Gould	280,030	June 26	1755	493	23	2445
Railway rail. Electric-	L. Daft	283,760	Aug. 28	1568	443	24	809
Railway-rail, fish-joint, &c	F. C. Winby	284,155	Aug. 28	2069	574	24	895
Railway-rail joint	J. H. Bloomfield and M. W. Boone	282,259	July 31	2434	669, 670	24	445
Railway-rail joint	J. A. Eno	276,792	May 1	339	91	23	1685
Railway-rail joint	T. H. Gibbon	288,704	Nov. 20	1154	317	25	722
Railway-rail joint	W. F. Gould	285,406	Sept. 25	1529	430	24	1188
Railway-rail joint	C. M. Keefer	287,296	Oct. 23	1924	526	25	368
Railway-rail joint	J. E. Moeller	289,298	Nov. 27	1873	520	25	861
Railway-rail joint	R. P. Morgan, Jr	280,654	July 3	378	106	24	67
Railway-rail joint	J. W. Ollis	273,882	Mar. 13	832	226	23	994
Railway-rail joint	J. L. Pope	286,843	Oct. 16	1342	367	25	258
Railway-rail joint	W. J. Stevens	288,378	Nov. 13	747	203	25	645
Railway-rail joint	S. F. Stever	289,465	Dec. 4	108	31, 32	25	906
Railway-rail joint and lock	T. E. Billington	284,169	Sept. 4	13	4	24	906
Railway-rail lock	J. Patterson	285,662	Sept. 25	1831	522	24	1244
Railway-rail spike	W. J. Morden	277,597	May 15	1339	360	23	1867
Railway-rail splice-bar	I. Nutt	272,749	Feb. 20	1470	413	23	712
Railway rail. Street-	T. L. Johnson	272,554	Feb. 20	1217	340, 341	23	668
Railway-rail. Tubular	A. McKenney	277,765	May 15	1536	418	23	1903
Railway-rails. Bar for aligning	B. J. Noonan	275,256	Apr. 3	476	133	23	1307
Railway-rails. Electrical connection for	W. W. Le Grande	285,494	Sept. 25	1631	458	24	1206
Railway-rails. Hot-bed for cooling	W. K. Seaman	272,781	Feb. 20	1507	424, 425	23	719
Railway-rails. Machine for curving	W. E. Kichline	279,394	June 12	990	275	23	2300
Railway-rails. Machine for straightening	F. H. Treat	286,655	Oct. 16	1099	296, 297	25	215
Railway-rails. Machinery for and method of manufacturing steel	J. Reese	276,712	May 1	230	58, 59	23	1664
Railway-recorder	L. K. Fuller	272,230	Feb. 13	799	223	23	590
Railway. Rope	J. B. Low	288,646	Nov. 20	1078	296	25	710
Railway running-gear	C. Brown	278,770	June 5	114	32, 33	23	2143
Railway safety-alarm	W. B. Morris	274,635	Mar. 27	1803	501	23	1168
Railway safety appliance	A. G. Cummings	276,564	May 1	96	7	23	1631
Railway safety-guard	B. Briody	279,700	June 19	1353	377	23	2368
Railway safety-switch	C. T. Johns	274,200	Mar. 20	1223	336	23	1060
Railway-signal	N. Allen	272,613	Feb. 20	1300	362	23	682
Railway-signal	A. H. Baker	271,296	Jan. 30	1815	526, 527	23	368
Railway-signal	W. C. Beckwith	277,200	May 8	868	230	23	1780
Railway-signal	G. W. Blodgett	284,716	Sept. 11	691	194	24	1027
Railway-signal	J. L. Booth	290,842	Dec. 25	1871	517	25	1238
Railway-signal	T. Breen	272,851	Feb. 27	1620	453	23	746
Railway-signal	G. F. Carlile	289,385	Dec. 4	15	5	25	890
Railway-signal	C. R. Collins	270,205	Jan. 9	449	131	23	99
Railway-signal	W. L. Doyle	285,589	Sept. 25	1745	494, 495	24	1228
Railway-signal	H. H. Eatherton	286,122	Oct. 2	420	115	25	78
Railway-signal	H. H. Eatherton	286,915	Oct. 16	1431	393	25	272
Railway-signal	D. Frank	278,231	May 22	2105	579, 580	23	2008
Railway-signal	J. Gray	270,305	Jan. 9	565	166	23	120
Railway-signal	W. Hadden	273,513	Mar. 6	343	93	23	893
Railway-signal	W. Hadden	273,514	Mar. 6	346	93	23	893
Railway-signal	A. G. Leonard	285,632	Sept. 25	1799	512	24	1238

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Railway-signal	P. Long and W. S. Turney	276,254	Apr. 24	1772	493, 494	23	1554
Railway-signal	L. R. Munson	270,604	Jan. 16	963	279	23	205
Railway-signal	W. H. Peddle and S. P. Thornton	287,051	Oct. 23	1610	443	25	310
Railway-signal	C. M. Risley	283,281	Aug. 14	971	271	24	680
Railway-signal	J. S. Trites	279,463	June 12	1066	295	23	2312
Railway signal and alarm. Automatic	H. G. Jones	282,730	Aug. 7	314	90	24	555
Railway signal and switch system. Electric interlocking	J. K. Knight and W. H. Baker	272,839	Feb. 20	1590	446, 447	23	734
Railway signal apparatus	M. C. Bragdon	290,388	Dec. 18	1262	354, 355	25	1125
Railway signal apparatus	O. Gassett	289,827	Dec. 11	568	159	25	993
Railway signal apparatus	W. Hadden	273,515	Mar. 6	349	93	23	893
Railway signal apparatus	W. Hadden	273,516	Mar. 6	351	93	23	894
Railway signal apparatus	W. Hadden	273,517	Mar. 6	354	94	23	894
Railway signal apparatus	F. Lane	288,348	Nov. 13	700	192	25	637
Railway signal apparatus	J. P. Livermore	273,558	Mar. 6	409	110	23	904
Railway signal apparatus	C. D. Tisdale	273,639	Mar. 6	510	137	23	921
Railway-signal. Automatic	T. Arndt	289,953	Dec. 11	719	203	25	1019
Railway-signal. Automatic	J. S. McLeod	275,064	Apr. 3	239	66, 67	23	1287
Railway-signal. Automatic	C. M. Raffensparger	287,961	Nov. 6	219	62	25	545
Railway-signal. Automatic electrical	D. H. Applegate	285,944	Oct. 2	213	60	25	41
Railway-signal. Electric	D. C. Farrington	279,929	June 26	1627	456, 457	23	2423
Railway-signal. Electric	W. Hadden	278,940	June 5	400	110	23	2191
Railway-signal. Electric	A. W. Hall	276,807	May 1	353	94	23	1688
Railway-signal. Electric	S. C. Hendrickson	276,038	Apr. 17	1507	415	23	1500
Railway-signal. Electric	W. W. Le Grande	272,142	Feb. 13	696	190, 191	23	572
Railway-signal. Electric	W. W. Le Grande	272,276	Feb. 13	858	240	23	601
Railway-signal. Electric	W. W. Le Grande	287,446	Oct. 30	2107	573	25	409
Railway-signal. Electric	G. S. Maxwell	290,338	Dec. 18	1200	336	25	1114
Railway-signal. Electric	C. J. Means	273,377	Mar. 6	183	50	23	865
Railway-signal. Electric	H. C. Nicholson	275,255	Apr. 3	473	132	23	1307
Railway-signal. Electric	E. L. Orcutt	272,464	Feb. 20	1105	312	23	648
Railway signal locking apparatus	O. Gassett	283,232	Aug. 14	907	253	24	669
Railway-signal. Electro-pneumatic	O. Gassett	276,021	Apr. 17	1486	409	23	1497
Railway-signal. Pneumatic	E. M. Chase	275,019	Apr. 3	177	48, 49	23	1256
Railway-signal. Telegraphic	R. M. Hunter	277,569	May 15	1307	351	23	1802
Railway-signals. Apparatus for operating	A. G. Cummings	277,118	May 8	768	202	23	1763
Railway-signals. Automatic circuit-breaker for	M. W. Long	289,008	Nov. 27	1524	421	25	797
Railway-signals. Circuit-instrument for electric	J. Weis	277,390	May 8	1083	291	23	1819
Railway-signals. Electrical connection for	T. J. Pottinger	287,466	Oct. 30	2131	579	25	414
Railway-signaling. Electric circuit for	G. Westinghouse, Jr	270,867	Jan. 16	1279	369	23	964
Railway-skid. Reversible	S. Lowe	277,302	May 8	985	265	23	1802
Railway sleeper and chair	T. J. Bronson and A. Armstrong	277,000	May 8	612	160	23	1737
Railway-sleeper. Metallic	H. Reese	272,477	Feb. 20	1126	316, 317	23	651
Railway-spike	W. Goldie	278,428	May 29	2386	651	23	2065
Railway splice-bar	M. Sellers	285,088	Sept. 25	1860	531	24	1250
Railway-springs. Machine for making bands for	J. Palmer	273,302	Mar. 6	75	21	23	847
Railway-stations. Electric signal for	A. D. Blodgett, R. M. Read, and J. P. Tirrell.	284,114	Aug. 28	2016	560, 561	24	887
Railway stock-gate	E. H. Taylor	279,672	June 19	1325	367	23	2363
Railway structure and car therefor. Street	O. D. Orvis and N. B. Adams	285,657	Sept. 25	1893	519, 520	24	1943
Railway-switch	A. Ayres	275,115	Apr. 3	309	86	23	1279
Railway-switch	T. Breen	276,762	May 1	304	78, 79	23	1678
Railway-switch	G. Chalmers	286,682	Oct. 16	1137	306	25	222
Railway-switch	T. J. Daly	277,552	May 15	1288	346	23	1859
Railway-switch	W. P. Dodson	287,810	Nov. 6	23	8	25	511
Railway-switch	J. Elmer	277,697	May 15	1453	392	23	1887
Railway-switch	J. Evans	283,675	Aug. 28	1699	479	24	831
Railway-switch	A. T. Fay	276,794	May 1	341	91	23	1665
Railway-switch	J. Gebby, Jr	281,486	July 17	1438	394	24	265
Railway-switch	J. Gibbon	278,533	May 29	2512	685	23	2088
Railway-switch	J. Gray and W. Hollenback	275,038	Apr. 3	207	56	23	1261
Railway-switch	J. L. Hill	278,548	May 29	2527	690	23	2090
Railway-switch	J. Leet and A. C. Isreal	278,344	May 29	2284	624	23	2047
Railway-switch	P. Lyon	271,486	Jan. 30	2070	596	23	414
Railway-switch	W. McCall	273,865	Mar. 13	813	220	23	961
Railway-switch	G. McCall	289,677	Dec. 4	379	108, 109	25	953
Railway-switch	G. Millerstedt	280,215	June 26	1962	552	23	2488
Railway-switch	J. Murphy	274,643	Mar. 27	1812	503	23	1169
Railway-switch	S. Nichols	274,814	Mar. 27	2014	561	23	1204
Railway-switch	C. M. Parks	272,313	Feb. 13	897	251	23	608
Railway-switch	J. H. Quimby	275,518	Apr. 10	857	232	23	1380
Railway-switch	J. T. Rigney	275,711	Apr. 10	1097	300	23	1492
Railway-switch	W. Spielman	272,789	Feb. 20	1518	428	23	721
Railway-switch	F. Vanell	279,509	June 12	1126	312	23	2291
Railway-switch	F. C. Weir	273,785	Mar. 13	711	192	23	964
Railway-switch	J. C. West	285,190	Sept. 18	1274	358	24	1136
Railway-switch	W. A. Wood	280,988	July 10	802	223	24	148
Railway-switch adjusting and locking device	R. G. Brooks	274,713	Mar. 27	1893	528	23	1184
Railway switch and frog	H. Berlin	289,377	Dec. 4	7	3	25	888
Railway switch and signal mechanism	C. Stewart	271,534	Jan. 30	2124	611	23	422
Railway switch-block	J. Fonda	287,920	Nov. 6	165	47	25	536
Railway-switch bridle	J. Gray	270,544	Jan. 9	882	256	23	182
Railway-switch. Safety	D. H. Hoult	280,476	July 3	178	47	24	32
Railway-switch safety-plate	A. E. Black and R. English	276,554	May 1	11	3	23	1628
Railway-switch signal	H. L. Pinney	289,958	Jan. 2	161	47	23	34
Railway switch-stand	E. J. Beard and H. V. Hinckley	277,539	May 15	1269	340	23	1856
Railway-switch stand	H. Elliot	289,633	Dec. 4	322	89	25	944

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Railway-switch stand	A. Grinder	285,356	Sept. 18	1462	411	24	1170
Railway-switch stand	P. O'Hern	284,144	Aug. 28	2058	571	24	893
Railway switch-stand. Revolving	E. J. Beard and H. V. Hinckley	276,552	May 1	10	3	23	1628
Railway switches and rails. Brace for	F. C. Weir	273,786	Mar. 13	712	192	23	964
Railway switches and signals. Apparatus for operating	A. G. Cummings	271,808	Feb. 6	267	74,75	23	487
Railway switches and signals. Interlocking apparatus for	J. W. Harper	273,681	Mar. 6	569	151	23	931
Railway-system. Electro-magnetic	T. A. Edison	273,490	Mar. 6	318	86	23	888
Railway-tie	T. Breen	272,850	Feb. 27	1619	452	23	746
Railway-tie	T. J. Bronson and A. Armstrong	289,806	Dec. 11	540	151	25	987
Railway-tie	C. Fisher	285,986	Oct. 2	255	72	25	49
Railway-tie	A. R. Spaulding	281,806	July 24	1858	507	24	342
Railway-tie	E. L. Taylor	286,651	Oct. 16	1096	295	25	215
Railway tie and chair. Combined	W. H. Gibbs and G. W. Snook	274,309	Mar. 20	1370	375	23	1095
Railway-tie and fastening	J. L. Chapman	283,076	Aug. 14	718	201	24	635
Railway-tie and stringer	J. Newton	285,833	Oct. 2	62	19	25	13
Railway-tie. Metallic	J. Clark	270,637	Jan. 16	1002	289	23	212
Railway-tie. Metallic	S. B. Wright	280,110	June 26	1845	520	23	2461
Railway-tie. Metallic	J. W. Young	284,157	Aug. 28	2071	575	24	896
Railway-ties from the refuse of sugar-cane. Manufacture of	E. C. Le Bourgeois	278,978	June 5	442	.....	23	2199
Railway-ties. Instrument for tamping the beds of	S. W. Hudson	273,363	Mar. 6	163	46	23	862
Railway-ties. Wear-plate for	D. Servis. (Reissue)	10,302	Apr. 3	615	165	23	1330
Railway time-indicator	J. M. Kelly	281,516	July 17	1423	404	24	272
Railway time-recorder	A. H. Dean and S. H. Whiting	279,723	June 19	1378	385	23	2373
Railway time-signal	H. H. Eatherton	279,084	June 5	580	159	23	2223
Railway time-signal	S. J. Swayze and J. C. Lane	286,156	Oct. 2	459	125	25	85
Railway time-signal	W. H. Waddell	288,519	Nov. 13	924	252	25	676
Railway-track	J. A. Merrill	283,632	Aug. 21	1396	391	24	765
Railway-track circuits. Electrical connector for	S. D. Field	275,180	Apr. 3	385	106	23	1293
Railway-track cleaner	G. W. Willey	288,903	Nov. 20	1394	384, 385	25	766
Railway-track cleaner	G. Royal	287,583	Oct. 30	2296	621	25	446
Railway-track gate	H. R. Vordermark	270,707	Jan. 16	1095	313	23	229
Railway-track joint	J. H. Holmgreen	278,016	May 22	1839	501	23	1961
Railway-track layer	J. Turner	275,096	Apr. 3	285	78	23	1275
Railway-track signal. Detonating	J. A. Paullin	269,955	Jan. 2	158	46	23	33
Railway-tracks. Alarm-signal for	J. Clark	285,571	Sept. 25	1719	486	24	1223
Railway-tracks. Device for connecting portable	J. J. Clarke	287,418	Oct. 30	2073	563	25	402
Railway-tracks. Device for raising and lining	W. R. Dickerson	271,611	Feb. 6	34	9	23	446
Railway-tracks. Mechanism for laying	A. Michelson	287,952	Nov. 6	204	59	25	543
Railway. Traction-	W. B. Reaney	281,924	July 24	2001	548	24	367
Railway. Traction-cable	O. H. Jadwin	284,020	Aug. 28	1901	533	24	867
Railway. Traction-rope	A. Bonzano	281,440	July 17	1371	378	24	254
Railway. Traction-rope	C. F. Findlay and D. J. Miller	281,256	July 17	1150	317, 318	24	216
Railway. Traction-rope	D. J. Miller and C. F. Findlay	281,284	July 17	1177	325, 326	24	221
Railway. Traction rope	J. H. Robertson	289,563	Dec. 4	239	68	25	928
Railway. Traction rope	S. H. Terry	270,508	Jan. 9	828	241, 242	23	172
Railway. Traction-rope	W. Wharton, Jr	281,593	July 17	1565	428	24	286
Railway-train signal. Electric	E. R. E. Cowell	286,268	Oct. 9	597	163	25	119
Railway-trains. Apparatus for automatically stopping	W. C. Crandell, Jr.	275,599	Apr. 10	950	258, 259	23	1397
Railway-trains. Electric signaling apparatus for	G. M. Bedinger, Jr	275,879	Apr. 17	1325	365	23	1469
Railway-trains. Electric signaling apparatus for	F. A. Shaw and H. E. Judkins	277,358	May 8	1050	282	23	1813
Railway-trains on bridges. Apparatus for recording speed of	J. H. M. Waldorp	279,292	June 12	838	232, 233	23	2277
Railway-trains. Stopping	J. Chandler	273,465	Mar. 6	290	79, 80	23	883
Railway-trains. Stopping	J. Chandler	283,754	Aug. 28	1560	440	24	808
Railway-trains. Tail-light bracket for	J. D. Hollister	288,058	Nov. 6	335	94	25	564
Railway turn-table. Electric	T. A. Edison	273,489	Mar. 6	318	86	23	888
Railway-wagon	J. McCulloch and W. Cook	272,967	Feb. 27	1758	491	23	769
Railway. Wire-rope	W. S. Ray	278,044	May 22	1868	510, 511	23	1967
Railways. Cable switch or shifter for underground endless-cable	A. H. Lighthall	288,947	Nov. 20	1448	399	25	776
Railways. Cable-tube for traction	S. H. Terry	270,506	Jan. 9	824	240	23	171
Railways. Conduit for traction-rope	A. Bonzano	287,220	Oct. 23	1827	500	25	350
Railways. Conduit for traction-rope	E. Samuel	281,562	July 17	1525	418	24	280
Railways. Conduit for traction-rope	E. Samuel	282,783	Aug. 7	370	105	24	565
Railways. Construction of	D. J. Miller	271,727	Feb. 6	168	46	23	469
Railways. Curve, frog, &c., for street	T. L. Johnson	276,419	Apr. 21	1991	551	23	1591
Railways. Gripping and carrying apparatus for cable	H. Root	286,163	Oct. 2	466	127, 128	25	87
Railways. Motor for use near	R. Zinsmaier and M. Burt	272,012	Feb. 6	523	141	23	530
Railways. Permanent way for	F. Schauman	279,280	June 12	826	229	23	2275
Railways. Permanent way for mountain	R. Abt	284,790	Sept. 11	786	219	24	1043
Railways. Permanent way of	J. Whiteford	273,923	Mar. 13	880	240	23	993
Railways. Sand-guard for	T. W. Stapleton	285,700	Sept. 25	1877	535	24	1253
Railways. Take-up mechanism for endless-cable	A. H. Lighthall	288,948	Nov. 20	1449	399, 400	25	776
Railing for cemetery-plats	V. T. Meredith	278,579	May 29	2560	699	23	2096
Rain-protector for chimneys and roofs	I. Sage	280,085	June 26	1820	512	23	2456
Rake: *See* Hand-rake. Harvester-rake. Harvester chain-rake. Hay-rake. Lawn-rake. Ore-washer rake.							
Rake	C. W. Knapp	272,268	Feb. 13	848	236	23	600
Rake	W. W. Knowlton	281,594	July 17	1482	407	24	273

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Rake	J. M. Nolan	285,653	Sept. 25	1890	518	24	1042
Rake and tedder. Combined	A. B. Pixley	271,365	Jan. 30	1773	516	23	360
Rake-straightening device	G. N. Sweet	277,077	May 8	719	187	23	1754
Rakes and forks. Making metallic	W. W. Knowlton	281,634	July 17	1618	443	24	295
Rakes. Making metallic	C. A. Lindgren	282,336	July 31	2537	695	24	462
Rakes. Mold for garden and other	J. F. Hay	273,683	Mar. 6	572	152	23	932
Ram. Hydraulic	G. Yellott	281,749	July 24	1776	483	24	327
Randing-machine	J. Paquette	288,850	Nov. 20	1334	366	25	755
Range	J. A. Price	277,781	May 15	1551	422	23	1906
Range and stove	L. L. Culver	289,988	Dec. 11	765	216	25	1029
Range and stove. Cooking	P. Brake	282,263	July 31	2439	671	24	446
Range-boiler setting	J. H. Burnett	287,231	Oct. 23	1842	503, 504	25	353
Range. Cooking	J. C. Barnes	280,762	July 10	563	157	24	106
Range or stove. Cooking	C. Fuller	272,131	Feb. 13	686	187	23	570
Range water-back and boiler fitting	J. McGinley	289,847	Dec. 11	599	166	25	998
Rasp	S. T. Harrison	279,750	June 19	1407	393	23	2378
Rasp	R. Vollschwitz	285,185	Sept. 18	1270	356	24	1135
Rasp and saw. Combined	W. S. How	289,104	Nov. 27	1646	456	25	818
Rat-trap	S. H. B. Harwell	290,580	Dec. 18	1531	422	25	1171
Ratchet-brace	J. Chantrell	286,663	Oct. 16	1139	307	25	222
Ratchet-drill	C. T. Colebrook	285,733	Sept. 25	1998	547	24	1261
Ratchet-drill	S. Gardner	273,676	Mar. 6	562	149	23	930
Ratchet-drill	J. A. Haase	286,294	Oct. 9	656	174	25	129
Ratchet-drill	R. K. Jones	285,620	Sept. 25	1796	511	24	1238
Ratchet-drill	A. Söderström	288,882	Nov. 20	1371	378	25	762
Ratchet-drill	W. M. Turner	270,516	Jan. 9	847	247	23	175
Ratchet-drill	O. S. Walker	282,809	Aug. 7	399	113	24	570
Ratchet-wrench	W. D. Forbes	277,256	May 8	930	249	23	1792
Ratchet-wrench	G. Gontier	290,036	Dec. 11	827	233	25	1039
Ratchet-wrench	B. F. Lancaster	282,462	July 31	2699	742	24	491
Ratchet-wrench	A. E. Pettiorew	285,669	Sept. 25	1839	525	24	1246
Ratchet-wrench	J. W. Pruitt	283,357	Aug. 14	1074	301	24	700
Ratchet-wrench	J. W. Womelsdorff	272,822	Feb. 20	1561	439	23	729
Ratchet wrench and drill	W. C. Shipherd	278,053	May 22	1878	514	23	1969
Rattan scraping and splitting machine	S. Sawyer	284,241	Sept. 4	108	30	24	923
Rattan-scraping machine	G. S. Colburn	277,235	May 8	902	240	23	1787
Rattan-splitting machine. Guide for	D. F. Pratt	286,957	Oct. 16	1483	407	25	282
Rattle. Child's	P. Lesson	276,251	Apr. 24	1770	493	23	1554
Razor-guard	J. P. Tryner	290,146	Dec. 11	954	270	25	1063
Razor-sheath	T. Clarke	289,389	Dec. 4	20	6	25	890
Razor-strop	G. W. Cook	283,862	Aug. 28	1683	475	24	899
Razor-strop	J. Darling	282,173	July 31	2333	643	24	427
Razor-strop	E. P. Haff	272,042	Feb. 13	569	154	23	551
Razor-strop	A. V. M. Sprague	276,092	Apr. 17	1573	433	23	1511
Razor-strop	J. R. Torrey	272,356	Feb. 13	956	266	23	617
Razor-strop	J. R. Torrey	272,357	Feb. 13	956	266	23	617
Razor-strop	J. R. Torrey	279,615	June 19	1249	346	23	2350
Razor-strop	J. R. Torrey	279,616	June 19	1250	347	23	2351
Razor-strop	J. R. Torrey	288,380	Nov. 13	749	204	25	645
Razor-strop	J. R. Torrey	288,381	Nov. 13	750	204	25	646
Razor-strop	L. C. Tower and J. Lamont	271,997	Feb. 6	508	136	23	528
Razor-strop	S. Wales	281,419	July 17	1349	372	24	250
Razor-strop	J. A. Wilson	288,389	Nov. 13	766	206	25	648
Razor strop and drawer. Combined	H. B. Emerson	287,260	Oct. 23	1876	514	25	359
Reamer	C. R. C. French	280,368	July 3	36	10	24	8
Reamer. Expanding	P. Gendron	289,948	Nov. 27	1813	501	25	849
Reamer. Expanding	J. Thornton, Jr.	282,685	Aug. 7	252	73	24	543
Reaming and tapping. Device for	J. F. Piper	277,507	May 15	1229	331	23	1850
Reaming-machine. Hand	M. Flather	273,976	Mar. 13	941	259	23	1003
Reaper and harvester	B. Hebron	275,649	Apr. 10	1027	277	23	1410
Reaper and mower	W. N. Whiteley	284,931	Sept. 11	943	265	24	1072
Reapers, Gavel-sizing mechanism for	G. H. Spaulding	282,581	Aug. 7	128	38	24	522
Reaping and mowing machine	E. J. Blood	273,341	Mar. 6	132	37	23	856
Reaping-machine	W. Gause	274,931	Apr. 3	60	16, 17	23	1236
Reaping-machine reel	A. J. Hartle	270,797	Jan. 16	1200	346	23	250
Receptacle. Extensible	A. Collin	273,030	Feb. 27	1835	513, 514	23	783
Reclining-chair	R. Adams	279,115	June 12	642	175, 176	23	2243
Reclining-chair	M. O. Baldwin	270,724	Jan. 16	1114	318, 319	23	233
Reclining-chair	M. S. Curtiss	280,356	July 3	21	6	24	6
Reclining-chair	C. E. Luburg	282,095	July 31	2216	609	24	409
Reclining-chair	J. Pursell, Sr	271,512	Jan. 30	2100	604	23	419
Reclining-chair lock	T. Haynes	289,653	Dec. 4	349	98	25	949
Recorder: *See* Fare-recorder. Passenger-recorder. Railway-recorder. Railway time-recorder. Time-recorder.							
Recording device	E. M. Asselstine	275,454	Apr. 10	775	207	23	1367
Recumbent chair	E. E. Peck	281,794	July 24	1750	474, 475	24	383
Recuperator-furnace	J. Zellweger	279,475	June 12	1083	299, 300	23	2315
Reducing substances and extracting juices. Machine for	G. Sanford	285,165	Sept. 18	1245	349	24	1131
Reducing substances and extracting juices. Machine for	G. Sanford	285,166	Sept. 18	1246	349, 350	24	1131
Reduction-machine	J. M. Case	276,132	Apr. 17	1626	448	23	1521
Reduction-machine	J. W. Collins	290,208	Dec. 18	1033	291	25	1085
Reed-plates. Manufacture of	M. Bray	280,787	July 10	568	159	24	107

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Reel: *See* Bolting-reel. Centrifugal reel. Check-row-wire reel. Clothes-reel. Fishing-reel. Harvester-reel. Hose-reel. Hose and rope reel. Planter check-line reel. Pump-reel. Reaping-machine reel. Wire-reel.							
Reel for coiling wire, rods, or ropes	S. T. Williams	269,905	Jan. 2	97	29	23	21
Reelette	C. B. Clark	277,231	May 8	899	239	23	1786
Reeling yarns, &c. Machine for	J. Garsed	280,601	July 3	315	88	24	56
Refining and oxidizing apparatus. Portable	C. Lévèque	290,075	Dec. 11	870	247, 248	25	1047
Reflector	J. Jaeger	285,270	Sept. 18	1363	384	24	1154
Reflector and signal frame for car-lamps	H. Roth	278,602	May 29	2588	706	23	2100
Reflector-bracket	W. Somerville	270,703	Jan. 16	1090	312	23	228
Reflector. Combination daylight	T. Hyatt	285,625	Sept. 25	1790	509	24	1237
Reflector for chandeliers, &c.	I. P. Frink	274,930	Apr. 3	58	15, 16	23	1235
Reflector for street-lamps	E. S. Ritchie	270,339	Jan. 9	610	179	23	129
Reflector. Gas-light	J. S. Havens	271,451	Jan. 30	2021	583	23	405
Reflector. Lamp	H. F. W. Seele	278,610	May 29	2599	709	23	2102
Reflectors. Manufacturing head-light	D. Garrett	282,879	Aug. 7	485	136	24	586
Refrigerated air and water. System of and apparatus for producing and distributing	H. D. Cogswell	272,654	Feb. 20	1352	380	23	692
Refrigerating and ice machine	J. T. Davis	287,912	Nov. 6	153	45	25	535
Refrigerating and ice machine	H. Logan	281,090	July 10	922	257	24	170
Refrigerating apparatus	C. C. Palmer	290,794	Dec. 25	1887	500, 501	25	1927
Refrigerating apparatus	C. C. Palmer	290,795	Dec. 25	1813	501	25	1928
Refrigerating apparatus	J. Reid	281,793	July 24	1842	504	24	339
Refrigerating apparatus	G. R. Wight	275,556	Apr. 10	901	244	23	1388
Refrigerating-car	W. A. Chase	289,977	Dec. 11	750	212	25	1026
Refrigerating-car	F. C. Hills	279,163	June 12	700	190	23	2252
Refrigerating-car	C. C. Palmer	290,600	Dec. 18	1552	428, 429	25	1175
Refrigerating-car	G. R. Wight	281,421	July 17	1351	373	24	251
Refrigerating-catafalque	J. J. Slevin	273,771	Mar. 13	695	187	23	961
Refrigerating chamber, car, and apparatus	I. Myer and S. K. Bayley	277,150	May 8	811	213, 214	23	1771
Refrigerating-chamber for railway-cars, &c.	J. H. Ridgway	270,126	Jan. 2	348	102	23	71
Refrigerating liquids and means employed therefor; also apparatus for the subsequent treatment of the refrigerated liquids.	W. Young and A. Neilson	277,822	May 15	1594	436	23	1914
Refrigerating-machines. Compound for use in	C. Marchand	275,834	Apr. 17	1966	.....	23	1457
Refrigerating oils, fats, &c. Apparatus for	J. Siddeley and F. N. Mackay	277,797	May 15	1568	428, 429	23	1909
Refrigerating structure	W. S. Post	288,260	Nov. 13	585	162	25	618
Refrigerating structure	R. H. Waters	275,000	Apr. 3	147	41	23	1251
Refrigerative vessel	P. Nunan	273,137	Feb. 27	1969	554	23	807
Refrigerator	B. F. Adams	271,391	Jan. 30	1940	561	23	390
Refrigerator	B. F. Adams	290,306	Dec. 18	1159	325	25	1107
Refrigerator	J. Alexander	285,199	Sept. 18	1281	360	24	1138
Refrigerator	J. A. Baldwin	276,752	May 1	293	75	23	1676
Refrigerator	R. P. Beatty	290,387	Dec. 18	1261	354	25	1125
Refrigerator	J. Castell	278,507	May 29	2481	677	23	2082
Refrigerator	J. M. Clock	274,275	Mar. 20	1324	366	23	1078
Refrigerator	J. M. Clock	274,276	Mar. 20	1326	366	23	1078
Refrigerator	E. B. Corby	270,393	Jan. 9	686	203	23	143
Refrigerator	E. S. Farson	275,920	Apr. 10	990	267	23	1403
Refrigerator	G. Fischer	274,750	Mar. 27	1937	539	23	1192
Refrigerator	F. C. Ginther	275,639	Apr. 10	1016	274	23	1407
Refrigerator	H. C. Goodell	282,882	Aug. 7	487	137	24	586
Refrigerator	S. Gray	288,427	Nov. 13	811	219	25	657
Refrigerator	J. Hammerl	288,430	Nov. 13	814	220	25	657
Refrigerator	J. B. Hartman	289,833	Dec. 11	576	161	25	994
Refrigerator	T. Keely	278,148	May 22	1997	549	23	1989
Refrigerator	G. Koons	287,691	Oct. 30	2436	655	25	473
Refrigerator	H. H. and H. T. Lovell	288,583	Nov. 13	998	275	25	690
Refrigerator	T. H. Marks	278,158	May 22	2005	552	23	1991
Refrigerator	C. Moore	281,387	July 17	1306	361, 362	24	244
Refrigerator	C. Pettersson	282,220	July 31	2390	658	24	437
Refrigerator	C. Pettersson	282,221	July 31	2392	658	24	437
Refrigerator	C. A. Sheridan	289,887	Jan. 9	75	23	23	17
Refrigerator	J. Smith and D. E. Blake	286,084	Oct. 2	375	103	25	68
Refrigerator	J. H. Wickes	279,062	June 5	551	152	23	2218
Refrigerator	G. R. Wight	284,932	Sept. 11	944	266	24	1072
Refrigerator and beer-cooler	M. Hohl	281,879	July 24	1947	532	24	358
Refrigerator and producing artificial cold	W. C. Wren	277,649	May 15	1402	377	23	1878
Refrigerator-car	S. K. Bayley	276,952	May 1	545	142, 143	23	1719
Refrigerator-car	B. N. Bugbey	270,383	Jan. 9	670	196	23	140
Refrigerator-car	E. Z. Collings and C. F. Pike	285,394	Sept. 25	1516	427	24	1186
Refrigerator-car	D. W. Davis	272,124	Feb. 13	677	184	23	569
Refrigerator-car	T. N. Ely, J. W. Cloud, and E. B. Wall.	290,324	Dec. 18	1184	332	25	1111
Refrigerator-car	C. P. Jackson	281,631	July 17	1615	442	24	294
Refrigerator-car	C. P. Jackson	282,196	July 31	2365	651	24	432
Refrigerator-car	P. C. Nissen	280,224	June 26	1976	555	23	2484
Refrigerator-car	L. Rutter	283,150	Aug. 14	804	225	24	649
Refrigerator-car	H. M. Sexton	290,805	Dec. 25	1829	505, 506	25	1230
Refrigerator-car	D. E. Somes	278,285	May 22	2174	599, 600	23	2019
Refrigerator-car shelf	R. H. Waters	278,757	June 5	102	29	23	2141

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Refrigerator cars and buildings. Heat insulation of.	S. K. Bayley	284,361	Sept. 4	247	69	24	946
Refrigerator creamery attachment	J. Miller	280,940	July 10	752	209	24	138
Refrigerator, filter, and water-cooler. Combined	T. C. Nativel	277,330	May 8	1020	273	23	1808
Refrigerator. Marine	S. W. Johnson	276,824	May 1	374	100	23	1691
Refrigerator or butter-cooler	O. M. Whitman	279,296	June 12	844	234	23	2277
Refrigerator. Portable	J. D. Bell	286,375	Oct. 9	750	201	25	146
Refrigerator-room	J. Hess	285,893	Oct. 2	147	42	25	29
Refrigerator. Window-	E. H. Benoist	275,799	Apr. 17	1228	336	23	1451
Refrigerators. Absorber for ammonia-	G. W. Stockman	275,869	Apr. 17	1312	362	23	1466
Regenerating-furnace	I. and S. Harper	274,320	Mar. 20	1380	379, 380	23	1067
Regenerative furnace	W. Swindell	285,522	Sept. 25	1665	468, 469	24	1213
Regenerator for securing a uniform temperature in steel ingots.	J. Reese	270,249	Jan. 9	500	148	23	108
Regenerator-furnace	W. Swindell	282,586	Aug. 7	136	40, 41	24	524
Register: *See* Barber's-chair register. Carriage-register. Cash-register. Differential register. Engine-register. Erasable register. Fare-register. Hot-air register. Passenger-register. Watchman's register.							
Register	G. Abrams	286,671	Oct. 16	1122	302	25	219
Register	J. L. Harley	277,130	May 8	789	207	23	1767
Register and alarm. Combined	J. G. Lettelier	286,317	Oct. 9	686	182, 183	25	135
Register and ventilator. Combined	A. D. Gallentine	282,977	Aug. 14	591	167	24	612
Register and ventilator. Combined	W. H. Maxfield	290,084	Dec. 11	883	251	25	1049
Registering apparatus. Autographic	J. C. Shoup	286,560	Oct. 9	974	262	25	187
Registering apparatus. Cashier's	B. W. Webb	274,424	Mar. 20	1515	416, 417	23	1111
Regulator: *See* Air-brake pressure-regulator. Clock-regulator. Damper-regulator. Draft-regulator. Electric regulator. Electric-apparatus regulator. Electric-current regulator. Electric-light regulator. Electric machine regulator. Electrical-generator regulator. Electro-magnetic regulator. Feed-regulator. Feed-water regulator. Gas-regulator. Gas-pressure regulator. Governor-regulator. Heat and gas regulator. Horse-power speed-regulator. Lamp-regulator. Mine air-regulator. Pressure-regulator. Pump-regulator. Pump-stroke regulator. Speed-regulator. Temperature-regulator. Watch-regulator.							
Rein and whip holder	F. C. Ayer	270,016	Jan. 23	1474	425	23	302
Rein carrier. Check-	L. E. Champlain	279,707	June 19	1360	379	23	2369
Rein. Driving-	O. F. Coy	289,072	Nov. 27	1609	445	25	812
Rein fastener. Check-	W. R. Coe	281,616	July 17	1599	437	24	292
Rein-guard	C. R. Chute	273,955	Mar. 13	918	252	23	999
Rein-guard for whiffletrees	N. C. Moody	286,145	Oct. 2	446	121	25	83
Rein guide. Driving-	N. B. Stowers	280,530	July 3	235	63	24	42
Rein-holder	F. S. Baldwin and P. A. Migasi	276,655	May 1	143	36	23	1651
Rein-holder	T. W. Beers and J. W. Craig	279,906	June 26	1597	448	23	2418
Rein-holder	E. E. Brewster	282,609	Aug. 7	162	49	24	529
Rein-holder	A. Cottrell	285,466	Sept. 25	1602	450	24	1201
Rein-holder	J. K. Craig	285,976	Oct. 2	246	70	25	47
Rein-holder	J. E. Daniels	285,468	Sept. 25	1604	450	24	1201
Rein-holder	H. A. Hudson	277,734	May 15	1493	405	23	1895
Rein-holder	W. S. Laney and C. F. Yost	287,031	Oct. 23	1585	436	25	306
Rein-holder	D. McGladery	279,411	June 12	1010	280	23	2303
Rein-holder	D. C. Montgomery	276,062	Apr. 17	1535	422	23	1505
Rein-holder	J. L. Thomson	285,525	Sept. 25	1669	470	24	1214
Rein-holder. Vehicle	D. McDougald	287,556	Oct. 30	2246	609	25	437
Rein hook. Check-	J. R. Shaw	283,154	Aug. 14	809	226	24	650
Rein-rack	P. Bossidy	277,668	May 15	1492	384	23	1892
Relay or circuit-closer. Automatic shunt-	T. A. B. Putnam	289,137	Nov. 27	1682	467	25	895
Relay or electro-magnet. Double-current	A. C. Fraser	286,917	Oct. 16	1433	394	25	273
Rendering animal-fats. Apparatus for	L. M. Ohly	275,404	Apr. 10	710	190	23	1356
Rendering apparatus	S. Stephens	282,584	Aug. 7	133	39	24	594
Rendering fats. Apparatus for	C. H. Robison	287,862	Nov. 6	84	25	25	522
Rendering-tank	R. Garstang	271,700	Feb. 6	137	38	23	484
Rendering-tank	W. Spiegel	269,969	Jan. 2	174	50	23	38
Reporting speech. System or method of	J. C. Zachos	290,830	Dec. 25	1859	514	25	1236
Resawing-machine	R. B. Jones and G. F. Wetherell	272,445	Feb. 20	1061	305	23	644
Reservoir for water-works	B. F. Stephens	274,987	Apr. 3	131	37	23	1948
Respirator	H. A. Stewart	279,200	June 12	736	202	23	2259
Respirator. Nasal	W. A. Fruhling, Jr	270,655	Jan. 16	1027	295	23	217
Reticule	C. De Quilfeldt	271,974	Feb. 6	472	128, 129	23	523
Retort-furnace for roasting ores	C. Cherry, Sr	290,212	Dec. 18	1038	292	25	1066
Retouching-machine	E. Allen	270,923	Jan. 23	1355	391	23	283
Return-ball	C. W. Clark	289,221	Nov. 27	1785	494	25	844
Return-flue boiler	C. H. Fitch	270,219	Jan. 9	461	134	23	101
Reverberatory furnace	J. H. Canavan	285,462	Sept. 25	1597	448	24	1200
Reverberatory furnace	G. Fenwick and B. Cochrane	271,442	Jan. 30	2008	579	23	403
Reverberatory smelting-furnace	R. P. Wilson	284,992	Sept. 11	1019	286	24	1087
Revolver	H. Goodman	274,093	Mar. 13	1065	299	23	1038

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Revolver	D. Smith	279,197	June 12	733	201	23	2259
Revolver	J. E. Turbiaux	273,644	Mar. 6	516	139	23	998
Revolver	D. B. Wesson	284,786	Sept. 11	782	218	24	1042
Revolver-lock	G. W. Cilley	270,204	Jan. 9	448	131	23	99
Revolving sprinkler	J. H. Henderson and E. Schutz	270,664	Jan. 16	1037	297	23	219
Revolving wrench	S. A. Thomas	287,194	Oct. 23	1790	491	25	344
Rheostat	G. W. O'Harra	283,138	Aug. 14	789	221	24	647
Ribbon box and reel	E. H. Bacon	283,949	Aug. 28	1794	508	24	849
Ribbon-holder	I. T. Lane	288,070	Nov. 6	347	97	25	566
Ribbon-holder	J. Mellette	275,685	Apr. 10	1068	291	23	1417
Ribbon-holder	J. Mellette	282,745	Aug. 7	329	94	24	557
Ribbon-roll	J. Mellette	282,744	Aug. 7	329	94	24	557
Rice-beater	J. Decker	271,810	Feb. 6	273	75	23	488
Rice beating and cleaning machine	W. H. Shelfer	275,426	Apr. 10	738	195, 196	23	1361
Rice-field trunk and gate	W. S. Mallard	283,264	Aug. 14	952	266	24	677
Rice-huller	E. Lischy	279,404	June 12	1004	278	23	2302
Rice hulling and polishing machine	L. S. Seaver	277,947	May 22	1748	476, 477	23	1945
Rifle barrel and extractor therefor. Auxiliary	P. B. Howe	282,194	July 31	2362	650	24	431
Rifle-sight	J. F. Gaffey and G. W. Cook	290,225	Dec. 18	1059	297	25	1090
Rifle-sight	J. V. Mountford and W. G. Kelsall	282,658	Aug. 7	220	64	24	538
Rifles. Range-finder for	E. O. C. Ord, Jr., and J. A. Kress	277,922	May 22	1718	469	23	1941
Ring: *See* Curtain-ring. Curtain-pole ring. Ear-ring. Finger-ring. Grappling-ring. Harness pole-ring. Hog-nose ring. Key-ring. Lamp coupling-ring. Martingale-ring. Napkin-ring. Packing-ring. Spinning-ring. Spinning-frame ring. Watch dust-ring. Watch pendant-ring.							
Ring for charms	J. N. B. White	288,899	Nov. 20	1391	383	25	766
Ring for halters, tie-straps, pessaries, &c	H. G. Farr	277,473	May 15	1190	320	23	1844
Ring-sockets. Manufacture of	M. Bray	280,786	July 10	567	158	24	107
Ripping the seams of garments. Device for	A. De Beaumont	288,031	Nov. 6	305	86	25	558
Rivet-feeding device	J. B. Root	280,404	July 3	80	22	24	17
Rivet-setting machine	C. M. Platt	270,555	Jan. 9	895	259	23	184
Rivet-setting machine	E. E. Spencer	277,369	May 8	1061	296	23	1815
Rivet. Tubular	B. L. D'Aubigné	275,158	Apr. 3	362	99	23	1289
Riveting hollow cylinders. Device for	J. H. Clinch	280,452	July 3	143	38	24	27
Riveting-machine	J. F. Allen	289,369	Dec. 4	1	1	25	887
Riveting-machine	J. R. Connor	287,630	Oct. 30	2359	636	25	457
Riveting-machine	J. Rohan	274,143	Mar. 20	1154	318	23	1047
Riveting-machine	J. L. Saxe	287,730	Oct. 30	2467	670	25	482
Riveting metals together	J. M. Griest	290,229	Dec. 18	1062	297	25	1090
Roach-trap	W. H. Banks	272,372	Feb. 13	973	271	23	621
Road	O. L. De Forest	282,283	July 31	2460	677	24	450
Road-engine	A. O. Frick and W. H. Snyder	273,978	Mar. 13	943	259	23	1003
Road-engine	B. F. Opp	287,709	Oct. 30	2460	663	25	477
Road-engine	F. D. Pierce	274,024	Mar. 13	996	273	23	1013
Road-engine	W. N. Rumely	273,396	Mar. 6	205	55	23	869
Road-engine	C. R. Sweet	284,147	Aug. 28	2061	571	24	894
Road-engine	E. J. Taylor and C. L. Pagenhart	270,999	Jan. 23	1453	419	23	299
Road-engine	J. S. Woolsey	285,942	Oct. 2	211	59	25	40
Road-making machine	F. M. Moulton	281,715	July 24	1731	470	24	319
Road-mender	L. Lamborn	277,748	May 15	1511	410	23	1898
Roads. Machine for making and repairing	G. W. Taft	276,093	Apr. 17	1573	433, 434	23	1511
Roads, sidewalks, &c. Constructing	W. B. Henning. (Reissue)	10,388	Sept. 25	1997	565	24	1270
Roaster: *See* Coffee-roaster.							
Roaster	D. B. Eastburn	282,617	Aug. 7	171	51	24	530
Roasting and baking pan	C. Jackson	288,640	Nov. 20	1071	294	25	709
Roasting and reducing furnace for gold and silver ores	J. E. Rice	275,272	Apr. 3	495	137	23	1310
Roasting and smelting furnace	B. O. Russell	290,115	Dec. 11	916	260, 261	25	1056
Roasting and smelting furnace. Combined	E. Holman	286,822	Oct. 16	1312	357, 358, 363, 364	24	253
Rock and earth boring apparatus	T. Lindell	286,837	Oct. 16	1332		25	256
Rock-breaker	B. F. Kramer	278,801	June 5	168	49	23	2151
Rock-breaker	L. Radovich	286,223	Oct. 9	539	148	25	109
Rock-breaker	W. S. Sharpneck	271,138	Jan. 23	1615	464	23	325
Rock breaker and dredger	C. A. Scanlan	290,482	Dec. 18	1400	386, 387	25	1149
Rock-crusher	M. B. Dodge	273,478	Mar. 6	308	83	23	886
Rock-drill	E. A. Armstrong	290,309	Dec. 18	1164	326	25	1107
Rock-drill	J. Naylor and R. Thornton	289,300	Nov. 27	1874	520, 521	25	862
Rock-drill	T. Radford	272,977	Feb. 27	1771	495	23	771
Rock-drill	W. H. Randall	281,922	July 24	1999	548	24	367
Rock-drill	R. V. Rogers and J. M. Allen	274,035	Mar. 13	1008	276	23	1015
Rock-drill	A. Shedlock	285,516	Sept. 25	1657	466	24	1211
Rock-drill	C. W. Stickney	270,613	Jan. 16	972	281	23	207
Rock-drill. Hand	E. Moreau	289,952	Jan. 2	155	45	23	33
Rock-drill. Power	J. B. Waring	271,168	Jan. 23	1655	476	23	332
Rock-drill. Steam	J. W. V. Rawlins	280,668	July 3	394	110	24	70
Rock-drill. Steam	A. and A. L. Stevens	280,971	July 10	784	217	24	144
Rock-drill support	G. R. Cullingworth	287,102	Oct. 23	1675	460	25	324
Rock-drill tripod	G. R. Cullingworth	287,103	Oct. 23	1676	460	25	324
Rock-drills. Connecting-rod for	C. A. Sterling	287,188	Oct. 23	1784	489	25	343
Rock-drilling apparatus	G. M. Derby	278,517	May 29	2492	681	23	2085
Rock-drilling machine	H. Dunham	277,244	May 8	915	245	23	1789

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr's.	Official Gazette. Vol.	Official Gazette. Page.
Rock-drilling machine	H. F. Parsons and H. Borchardt	281,719	July 24	1739	472, 473	24	321
Rock-drilling machine	A. Shedlock	282,392	July 31	2593	712	24	472
Rock-drilling machine	T. Threlfall	282,686	Aug. 7	253	73, 74	24	543
Rock-drilling machine	T. Threlfall	282,687	Aug. 7	256	74	24	543
Rock-drilling machine. Hand	H. F. Parsons and H. Borchardt	281,718	July 24	1734	471, 472	24	320
Rock-pulverizer	F. M. and W. Case	284,611	Sept. 11	554	157	24	1004
Rocker. Detachable	O. B. Olmsted	271,907	Feb. 6	390	107	23	509
Rocker. Juvenile	S. Weldon	281,420	July 17	1351	372	24	251
Rocket	J. J. Detwiller	276,007	Apr. 17	1467	404	23	1494
Rocket and whip	T. Dockum	288,985	Nov. 27	1498	415	25	793
Rocking attachment for chairs	H. H. Schneider	277,617	May 15	1362	367	23	1871
Rocking-chair	J. E. Cotton	284,822	Sept. 11	818	228	24	1049
Rocking-chair	H. Lamprecht	286,449	Oct. 9	839	227	25	163
Rocking-chair	C. Niemiller	279,879	June 19	1559	436	23	2404
Rocking-chair	G. A. Stiles	279,896	June 19	1565	438	23	2406
Rocking-chair and fan. Combined	H. P. Roberts	278,047	May 22	1871	512	23	1967
Rocking-chair and hobby-horse. Combined	J. F. Butler and U. McClinchie	275,583	Apr. 10	832	253	23	1393
Rocking-chair. Base	A. B. Stevens	273,630	Mar. 6	499	134	23	920
Rocking-chair fan attachment	T. Powell	271,114	Jan. 23	1589	456	23	321
Rocking-chair foot-rest	E. Emerson and G. G. Cook	280,160	June 26	1898	534	23	2471
Rocking-chair. Spring	A. H. Ordway	281,124	July 10	969	271	24	178
Rocking-chair treadle attachment	M. V. B. Evesson	290,634	Dec. 18	1601	439	25	1182
Rocking horse and gig	W. E. Crandall	270,023	Jan. 2	232	67	23	48
Rocking. reclining, and easy chair	D. B. Hartley	276,687	May 1	197	50, 51	23	1658
Rod: *See* Car-brake rod. Fishing-rod. Gun-rod. Leveling-rod. Lightning-rod. Sucker-rod. Wantage or ullage rod.							
Roll-brasses and making the same	H. and H. B. Chess	290,535	Dec. 18	1475	407	25	1161
Roll for slitting iron	H. Greer	281,184	July 10	1047	290	24	192
Roll-mounting	R. A. Carter	285,567	Sept. 25	1715	485	24	1282
Rolled bars while cooling. Treating hot	J. L. Lewis	278,246	May 22	2123	585	23	2011
Roller: *See* Belt-roller. Clay crushing and grinding roller. Coal-crushing roller. Copying-roller. Curtain-roller. Curtain-fixture roller. Elastic roller. Friction-roller. Gudgeon-roller. Inking-roller. Land-roller. Leather-dressing roller. Log-roller. Paper-hanger roller. Printer's roller. Printer's inking-roller. Pulley-roller. Saw-mill log-roller. Shade-roller. Skate-roller. Spring-roller. Trawl-roller. Window-shade roller.							
Roller and harrow. Combined	S. P. Kimball	287,836	Nov. 6	56	17	25	517
Roller-die	J. B. Sutch and W. C. McElheny	274,840	Mar. 27	2039	568	23	1209
Roller-feed mechanism	W. O. Gunckel	282,720	Aug. 7	307	87	24	553
Roller fixture. Spring	A. B. Shaw	280,249	June 26	2006	564	23	2490
Roller grain-mill	O. W. Tresselt	279,673	June 19	1396	367, 368	23	2363
Roller-mill	E. T. Butler	281,237	July 17	1123	309	24	212
Roller-mill	C. B. Campbell	272,644	Feb. 20	1340	376	23	690
Roller-mill	H. J. Gilbert	276,237	Apr. 24	1757	489	23	1551
Roller-mill	H. J. Gilbert	276,238	Apr. 24	1757	489	23	1552
Roller-mill	H. J. Gilbert	280,170	June 26	1906	537	23	2472
Roller-mill	R. J. Good	289,063	Nov. 27	1621	449	25	814
Roller-mill	N. W. Holt	286,440	Oct. 9	839	225	25	161
Roller-mill	J. Livingston	275,675	Apr. 10	1056	286	23	1414
Roller-mill	J. Livingston	280,195	June 26	1936	544	23	2478
Roller-mill	J. Livingston	284,135	Aug. 28	2041	567, 568	24	891
Roller-mill	D. W. Marmon	274,506	Mar. 27	1651	459, 460	23	1140
Roller-mill	D. W. Marmon	275,835	Apr. 17	1267	348, 349	23	1458
Roller-mill	D. W. Marmon	276,440	Apr. 24	2015	550	23	1595
Roller-mill	D. W. Marmon	277,307	May 8	992	266, 267	23	1803
Roller-mill	D. W. Marmon and J. Warrington	275,055	Apr. 3	223	61, 62	23	1264
Roller-mill	S. B. Rickerson	271,518	Jan. 30	2109	607	23	490
Roller-mill	S. B. Rickerson	278,272	May 22	2161	594	23	2017
Roller-mill	S. B. Rickerson	278,273	May 22	2162	594, 595	23	2017
Roller-mill	S. B. Rickerson	278,274	May 22	2163	595, 596	23	2017
Roller-mill	E. Strong	288,886	Nov. 20	1375	379	25	763
Roller-mill	J. Warrington	277,595	May 15	1249	336, 337	23	1853
Roller-mill	F. Wegmann	276,104	Apr. 17	1587	438, 439	23	1514
Roller-mill	A. N. Wolf	288,750	Nov. 20	1217	333	25	733
Roller-mill feed mechanism	D. E. Dowling	289,518	Dec. 4	183	51	25	918
Roller-mill feed mechanism	G. V. Hecker	287,126	Oct. 23	1703	466	25	399
Roller-mill feed mechanism	N. W. Holt	288,808	Nov. 20	1982	351, 352	25	745
Roller-mill feed mechanism	W. M. Jewell	280,184	June 26	1920	540	23	2475
Roller-mill sieve	H. J. and G. A. Gilbert	275,190	Apr. 3	396	109	23	1295
Roller-mill test-plate	W. D. Gray	273,065	Feb. 27	1872	596	23	789
Rollers with toothed metal. Apparatus for covering	W. T. Leech	277,397	May 8	980	263	23	1801

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Rolling axes. Die for	L. Hammond	278,544	May 29	2523	688	23	2089
Rolling car-couplings. Roll for	J. W. Higgs	289,001	Nov. 27	1517	419 420	25	796
Rolling coupling-pins. Machine for	J. Maseth	286,324	Oct. 9	694	185	25	136
Rolling hoops, sheets, or hollow cylinders. Machine for	J. Reese	276,284	Apr. 24	1809	504	23	1561
Rolling-machine	C. V. Woerd	270,170	Jan. 2	404	117	23	82
Rolling metal bars. Machine for	J. Ostrander	274,964	Apr. 3	105	29, 30	23	1243
Rolling metal rods and bars	T. H. Daniels	271,225	Jan. 30	1726	500	23	352
Rolling metal. Roll for	W. E. Harris and E. B. Evans	288,176	Nov. 6	475	131	25	590
Rolling-mill	J. H. Bickley	289,605	Dec. 4	291	82	25	939
Rolling-mill	A. Crandell	281,978	July 24	2066	566	24	378
Rolling-mill	G. Erkenzweig	281,474	July 17	1420	390	24	263
Rolling-mill	G. Erkenzweig	281,475	July 17	1423	390	24	263
Rolling-mill	J. S. Griffin	282,718	Aug. 7	303	85, 86	24	552
Rolling-mill	W. Harty	276,177	Apr. 24	1680	465	23	1538
Rolling-mill	P. Kirk	270,441	Jan. 9	748	219	23	155
Rolling-mill	J. J. Roberts	276,629	May 1	106	28	23	1645
Rolling-mill	T. Shaffer	276,086	Apr. 17	1562	431	23	1510
Rolling-mill	T. Shaffer	280,248	June 26	2006	564	23	2490
Rolling-mill	T. Shaffer	288,501	Nov. 13	904	246	25	672
Rolling-mill	R. Uren	274,856	Mar. 27	2057	573	23	1212
Rolling-mill	S. T. Wellman	277,815	May 15	1586	433 434	23	1912
Rolling-mill	S. T. Wellman	277,860	May 15	1642	447 448	23	1922
Rolling-mill	S. T. Williams	284,700	Sept. 11	667	188	24	1023
Rolling-mill	S. R. Wilmot	281,595	July 17	1568	429	24	286
Rolling-mill. Continuous	G. W. Cobbett and J. E. Cunningham.	285,113	Sept. 18	1182	331	24	1120
Rolling-mill. Continuous	F. H. Daniels	287,008	Oct. 23	1551	427 428	25	299
Rolling-mill. Continuous	W. W. McCallip	277,044	May 8	669	174	23	1746
Rolling-mill. Continuous	J. Reese	275,856	Apr. 17	1293	355	23	1462
Rolling-mill. Continuous	M. V. Smith	274,524	Mar. 27	1672	464	23	1144
Rolling-mill. Continuous	M. V. Smith	274,525	Mar. 27	1674	464	23	1144
Rolling-mill guide	A. A. Simonds	280,003	June 26	1927	514	23	2458
Rolling mill. Metal	J. I. Williams	275,309	Apr. 3	542	148	23	1318
Rolling-mill plant	W. Garrett	289,524	Dec. 4	190	53, 54	25	920
Rolling-mill roll	S. R. Wilmot	281,596	July 17	1571	429	24	287
Rolling-mill roll	S. R. Wilmot	281,597	July 17	1572	429	24	287
Rolling-mill. Universal	J. Reese	272,086	Feb. 13	625	169 170	23	560
Rolling-mill. Wire-rod	F. H. Daniels	283,470	Aug. 21	1212	340 341	24	731
Rolling-mills. Billet-guide for	W. W. McCallip	271,725	Feb. 6	165	45	23	469
Rolling mills. Lift for plate	R. Barrett	271,766	Feb. 6	217	60, 61	23	478
Rolling-pin	J. Nath	278,258	May 22	2148	589	23	2015
Rolling railway-rails. Device for	A. J. Acaster	276,322	Apr. 24	1677	521	23	1571
Rolling socket-blanks for oil-well rods. Machine for	L. Yakel. (Reissue)	10,314	Apr. 10	1229	334	23	1442
Rolling steel springs. Roll for	D. F. Kanaley	272,556	Feb. 20	1221	341	23	668
Rolling tubes, columns, &c. Machine for	C. Kellogg	276,340	May 29	2279	623	23	2046
Rolling wire rods and apparatus therefor	T. H. Dodge	290,002	Dec. 11	786	221	25	1032
Roof	N. Butterfield	274,265	Mar. 20	1313	362	23	1076
Roof	C. Svendsen	270,859	Jan. 16	1270	306	23	263
Roof and sidewalk for basements and rear extensions of buildings. Vault-light	T. Hyatt	285,358	Sept. 18	1464	412	24	1171
Roof and sidewalk for constructing basements, &c., to buildings. Vault-light	T. Hyatt	286,137	Oct. 2	437	119	25	81
Roof-coating	J. H. Kelley	289,003	Nov. 27	1519	.....	25	796
Roof. Composition	J. F. Hoffman	285,131	Sept. 18	1201	337	24	1124
Roof. Insulated metallic	H. C. Thomas	283,166	Aug. 14	823	230	24	653
Roof. Portable	H. C. Herron	284,846	Sept. 11	847	238	24	1054
Roof snow-guard	C. A. Neuert	272,148	Feb. 13	701	192	23	573
Roof. Stack	J. W. Harper	286,431	Oct. 9	818	222	25	159
Roof-valley. Sheet-metal	C. B. Cooper	287,632	Oct. 30	2362	637	25	458
Roof. Vault or combination skylight reflector	T. Hyatt	284,963	Sept. 11	984	277	24	1060
Roofs. Construction of glazed	W. E. Rendle	270,337	Jan. 9	607	179	23	128
Roofs, &c. Illuminating	J. K. Ingalls	271,654	Feb. 6	325	90	23	498
Roofers. Metal-bending machine for tin	R. C. Snowden	274,398	Mar. 20	1484	408	23	1105
Roofing	W. C. Smalstig and W. Massey	280,681	July 3	410	114	24	73
Roofing-cement. Wallkill	T. T. Crane and J. G. Sanderson	274,178	Mar. 20	1200	330	23	1056
Roofing. Composite	S. L. Foster	270,943	Jan. 23	1383	400	23	288
Roofing composition	W. White	282,138	July 31	2088	.....	24	420
Roofing, &c. Composition for	N. McCoy	275,507	Apr. 10	842	.....	23	1378
Roofing composition to felting. Machine for applying	J. F. Perry	284,891	Sept. 11	892	252	24	1063
Roofing compound	D. Brobst	284,371	Sept. 4	257	.....	24	948
Roofing compound	J. Bushey and R. Woodcock	273,948	Mar. 13	911	.....	23	997
Roofing compound	W. Detrick	284,725	Sept. 11	701	.....	24	1029
Roofing compound	H. H. Hutchins	270,436	Jan. 9	743	.....	23	154
Roofing fabric	H. M. Miner	278,722	June 5	62	19	23	2135
Roofing fabric. Apparatus for making	H. M. Miner	275,841	Apr. 17	1276	350	23	1459
Roofing fabric. Machine for making	H. M. Miner	276,856	May 1	413	110	23	1699
Roofing-felt	W. White	282,139	July 31	2289	628	24	420
Roofing-knife or tinner's scraper	G. J. Cline	272,649	Feb. 20	1346	378	23	691
Roofing machine	R. C. Snowden	283,201	Aug. 14	981	274	24	683
Roofing. Machine for flattening the seams of sheet-metal	W. Painter, J. L. Murrill, and L. R. Keizer.	277,332	May 8	1022	274	23	1808
Roofing. Machine for preparing tin-plates for	A. J. Conner	270,022	Jan. 2	230	67	23	48
Roofing material	S. M. Allen	278,481	May 29	2447	.....	23	2076
Roofing. Metallic	T. F. and J. Fitzberger	277,254	May 8	928	249	23	1792
Roofing. Metallic	E. Severin	276,085	Apr. 17	1562	430	23	1510
Roofing. Plastic compound for	C. Taylor	270,151	Jan. 2	383	.....	23	78

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Roofing-slates. Device for attaching	J. C. Chambers	282,439	July 31	2672	733	24	487
Roofing-tile	W. Ludowici	283,126	Aug. 14	778	219	24	645
Roofing-tile mold	L. Lane and L. D. Woodworth	279,402	June 12	1000	277	23	2301
Rope and cord fastening	C. S. Upton	277,632	May 15	1381	372	23	1874
Rope-clamp	C. Littlefield	278,155	May 22	2003	551	23	1990
Rope-driving apparatus	O. C. Woolson	285,095	Sept. 18	1158	323	24	1116
Rope driving apparatus	O. C. Woolson. (Reissue)	10,407	Nov. 20	1471	406	25	781
Rope-end fastener	J. Gibbons	286,807	Oct. 16	1291	349	25	249
Rope-hitch	G. D. Mosher	283,719	Aug. 21	1507	425	24	786
Rope, &c. Machine for making	M. M. Zellers	275,743	Apr. 10	1134	310, 311	23	1498
Rope-serving machine	J. H. Nute	275,937	Apr. 17	1387	382	23	1480
Rosaniline. Manufacture of the nitro-leuco base of	E. Fischer	283,766	Aug. 28	1574	.....	24	810
Rosin and spirits of turpentine. Manufacturing	L. Bellingrath	284,367	Sept. 4	253	.....	24	947
Rotary crusher	D. Bushman	277,543	May 15	1273	341	23	1857
Rotary cutter	O. J. Beale	277,405	May 8	1100	295	23	1822
Rotary cutter	J. H. Busell	270,643	Jan. 16	998	288	23	211
Rotary cutter	W. D. Orcutt	283,806	Aug. 28	1624	457	24	818
Rotary cutter	A. E. Stirckler	284,096	Aug. 28	1978	551	24	880
Rotary cutters. Gage-slide for	M. L. Orum	278,815	June 5	184	53, 54	23	2154
Rotary drill. Expansion	S. W. Douglass	274,740	Mar. 27	1919	535	23	1189
Rotary engine	B. T. Babbitt	269,991	Jan. 2	199	57	23	41
Rotary engine	C. H. Bacon	280,478	July 3	126	34	24	24
Rotary engine	J. J. Blair	281,004	July 10	820	228	24	152
Rotary engine	J. H. Blake	273,446	Mar. 6	265	71	23	878
Rotary engine	C. P. Case	273,951	Mar. 13	913	249, 250, 251	23	998
Rotary engine	E. H. Corbin	282,171	July 31	2330	643	24	426
Rotary engine	C. F. Cory	276,360	Apr. 24	1917	532	23	1578
Rotary engine	D. Dudley	282,505	Aug. 7	35	10	24	506
Rotary engine	M. Fay	280,162	June 26	1899	535	23	2471
Rotary engine	J. P. Fletcher	289,822	Dec. 11	560	157	25	991
Rotary engine	I. N. Forbes	274,475	Mar. 27	1587	436, 437, 438	23	1131
Rotary engine	I. N. Forbes	274,476	Mar. 27	1594	438, 439	23	1132
Rotary engine	I. N. Forbes	274,477	Mar. 27	1596	439, 440, 441	23	1132
Rotary engine	I. N. Forbes	274,478	Mar. 27	1600	441, 442	23	1133
Rotary engine	I. N. Forbes	274,479	Mar. 27	1607	443	23	1133
Rotary engine	W. J. Frazier	276,235	Apr. 24	1752	485, 486, 487, 488	23	1551
Rotary engine	C. C. Garcelon and W. A. Woods	280,027	June 26	1752	492	23	2444
Rotary engine	A. H. Gleason	290 035	Dec. 11	895	233	25	1039
Rotary engine	J. Goehring	275,819	Apr. 17	1248	344	23	1455
Rotary engine	G. E. Hibbard	282,520	Aug. 7	53	16	24	509
Rotary engine	C. C. Jones	275,667	Apr. 10	1047	284	23	1413
Rotary engine	M. G. Lewis	272,964	Feb. 27	1754	490	23	768
Rotary engine	A. B. Lipsey	280,194	June 26	1932	543, 544	23	2477
Rotary engine	N. J. Pritchard	286,844	Oct. 16	1342	367	25	258
Rotary engine	T. M. Rinehart	280,766	July 3	530	149	24	94
Rotary engine	O. H. Robinson	281,796	July 24	1846	505	24	340
Rotary engine	C. M. Sanderson	273,162	Feb. 27	1999	562	23	811
Rotary engine	C. A. Shaler	286,232	Oct. 9	549	150, 151	25	111
Rotary engine	J. L. Starks	274,669	Mar. 27	1845	514	23	1175
Rotary engine	J. M. X. Terlinden	271,156	Jan. 23	1638	471, 472	23	330
Rotary engine	J. C. Wands	271,555	Jan. 30	2150	619	23	497
Rotary engine	J. C. Wharton	290,508	Dec. 18	1440	398	25	1155
Rotary engine	T. and J. W. Wilbraham	272,818	Feb. 20	1555	436, 437	23	798
Rotary engine and pump	S. Marcus	282,340	July 31	2543	696	24	464
Rotary engine and pump	N. N. Tverskoy	273,916	Mar. 13	870	236, 237	23	991
Rotary meter	B. Fitts and J. F. Wilson	281,257	July 17	1152	318	24	217
Rotary meter	H. Fredrick	271,233	Jan. 30	1735	502	23	354
Rotary meter	H. Fredrick	287,529	Oct. 30	2209	600	25	430
Rotary motor	H. F. Hodges	271,459	Jan. 30	2034	586	23	407
Rotary motor	A. Kissam	282,001	July 24	2089	573	24	382
Rotary motor	G. Lenhardt	272,562	Feb. 20	1242	345	23	672
Rotary steam-engine	W. Gibb	284,125	Aug. 28	2031	565	24	890
Rotary steam-engine	L. D. Hooper	287,379	Oct. 23	2022	550	25	386
Rotary steam-engine	J. A. Knight	282,907	Aug. 7	514	144	24	592
Rotary steam-engine	J. M. Smelser and E. L. Kennedy	286,876	Oct. 16	1355	371	25	260
Rotary steam-engine	D. L. Smith	284,681	Sept. 11	642	181	24	1019
Rotary steam-engine	G. W. Wade and J. M. Wardell	270,160	Jan. 2	393	114	23	60
Rotary steam-engine	A. B. Wood	286,102	Oct. 2	398	109	25	73
Rotating furnace	J. B. Hyde	285,627	Sept. 25	1792	510	24	1237
Roundabout	H. J. F. Schulze	274 268	Mar. 20	1267	350	23	1068
Roundabout	A. West	288,898	Nov. 20	1390	383	25	765
Router-bit	W. D. Bradt	281,442	July 17	1373	379	24	254
Routing-machine	R. T. White	275,002	Apr. 3	149	42	23	1251
Row-boat	M. F. Davis	282,853	Aug. 7	452	128	24	580
Row-boat seat	M. F. Davis	282,855	Aug. 7	456	129	24	581
Row-boats. Mirror attachment for	E. W. Oppe	278,039	May 22	1863	509	23	1966
Row-lock	J. Beaudreau	271,021	Jan. 23	1479	426	23	303

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Rowlock	M. F. Davis	282,854	Aug. 7	454	128 129	24	580
Rowlock	C. W. Morris	283,640	Aug. 21	1405	393	24	767
Rowlock	J. Passeno	287,155	Oct. 23	1739	476	25	335
Rowlock	J. Snowman	287,971	Nov. 6	230	65	25	547
Rowing apparatus	F. D. Smith and W. L. Casaday	276,294	Apr. 24	1823	507	23	1562
Rowing apparatus. Boat-	A. Beckers	287,088	Oct. 23	1655	454 455	25	319
Rowing-gear	J. W. Rutter	282,121	July 31	2264	621	24	416
Rowing-gear for boats	H. Schunk	284,984	Sept. 11	1006	284	24	1084
Rubber and fiber from scraps of india-rubber cloth. Reclaiming india-	J. L. Chadwick	288,013	Nov. 6	286	.....	25	556
Rubber. Apparatus or device for punching	W. E. Burk	278,091	May 22	1922	527	23	1977
Rubber cloth. Machine for manufacturing	F. E. Aldrich. (Reissue)	10,325	May 15	1653	450	23	1924
Rubber cloth or fabric	F. E. Aldrich	283,057	Aug. 14	697	.....	24	631
Rubber compound	N. C. Mitchell	290,909	Dec. 25	1953	.....	25	1252
Rubber compound. Metallized-	H. A. Robinson	284,760	Sept. 11	744	.....	24	1036
Rubber-dam clamp	J. P. Carmichael	277,224	May 8	891	237	23	1785
Rubber fabrics. Manufacture of metallic-surfaced india-	N. S. White	278,206	May 22	2073	.....	23	2003
Rubber goods. Manufacture of vulcanized-	I. F. Williams	284,936	Sept. 11	951	267	24	1074
Rubber. Method of and apparatus for making articles of molded	H. F. C. Pearson	271,911	Feb. 6	394	108	23	510
Rubber plates or sheets for graining. Preparing	H. C. Brainerd	287,617	Oct. 30	2347	.....	25	455
Rubber veneer and enamel. Ornamenting	T. J. Mayall	286,034	Oct. 2	316	.....	25	59
Rubber waste. Separating foreign substances from india-	A. W. Kent	281,769	July 24	1808	494	24	334
Rudder for vessels	I. Keefer	282,643	Aug. 7	203	59	24	535
Rudder for vessels. Floating	J. Philp	284,477	Sept. 4	383	106	24	969
Rudder-holding device for ferry-boats	N. Allen	286,367	Oct. 9	743	199	25	145
Rudder. Steam propelling	B. H. Burling	284,812	Sept. 11	806	225	24	1047
Rug-making machine	O. Huff	272,697	Feb. 20	1402	393 394	23	700
Rugs. Manufacture of tufted	A. Davis	285,735	Sept. 25	1931	547	24	1961
Rule. Dress-maker's	W. Wallace	284,783	Sept. 11	779	217	24	1041
Rule. Headed lumber-	E. T. Lufkin	272,279	Feb. 13	862	241	23	602
Rule or measure	F. J. Kellogg	290,889	Dec. 25	1930	533	25	1248
Ruler. Metal	C. A. Smith	287,480	Oct. 30	2152	585	25	418
Ruler. Parallel	C. A. Shields	289,457	Dec. 4	98	28	25	904
Rules. Machine for forming and dressing lumber-	E. T. Lufkin	272,892	Feb. 27	1677	469	23	755
Ruling-machine	E. W. Blackhall	273,016	Feb. 27	1816	509	23	779
Ruling-machine	H. A. Brissard	286,389	Oct. 9	758	204 205	25	148
Ruling machine. Paper-	E. J. Piper	284,665	Sept. 11	616	173 174	24	1014
Ruling machine. Paper-	G. Schwemlein	288,370	Nov. 13	736	200	25	643
Ruling-machines. Packing-box for	W. C. Demain	275,606	Apr. 10	966	262 263	23	1399
Ruling-machines. Pen-beam standard for	E. J. Piper	284,666	Sept. 11	618	174	24	1015
Running-gear	A. J. Beach	290,895	July 10	687	193	24	128
Running-gear	J. M. Brosius	270,382	Jan. 9	669	196	23	140
Running-gear	E. Prescott	277,780	May 15	1550	422	23	1906
Running-gear	C. R. Taylor	278,290	May 22	2184	601	23	2021
Rust spots or stains from fabrics. Compound for removing	W. H. Payne	278,176	May 22	2032	.....	23	1995
Saccharine liquids. Defecating and clarifying	H. A. Hughes	281,188	July 10	1051	.....	24	193
Saccharine matter from vegetable substances. Extraction of	C. D. Ekman, G. Fry, and W. B. Espent.	286,187	Oct. 9	501	.....	25	103
Saccharine or other substances. Refining, purifying, or clarifying	D. MacEachran	276,843	May 1	397	.....	23	1696
Sack fastening. Fur-	C. Altman	278,072	May 22	1897	519	23	1972
Sack-filler	A. Hay	282,984	Aug. 14	598	169	24	614
Sack-holder and scale. Combined	W. T. Moore	270,094	Jan. 2	307	91	23	63
Sack-turner	L. Arthur	287,214	Oct. 23	1890	499	25	349
Sad-iron	R. F. Preusser	289,709	Dec. 4	432	120	25	961
Sad-iron holder	J. M. Holmes	289,536	Dec. 4	206	58	25	922
Sad-iron holder	J. O'Neil	279,591	June 19	1223	340	23	2346
Sad-iron holder	J. W. Wheelock	274,157	Mar. 20	1172	324	23	1051
Sad-iron shield	J. D. Muller	279,971	June 26	1677	471	23	2430
Sad-iron gas-heater	I. M. Seamans	286,155	Oct. 2	458	124	25	85
Sad-irons. Manufacture of	M. J. Shimer	284,249	Sept. 4	119	32	24	925
Saddle	M. Comstock	288,026	Nov. 6	299	84	25	558
Saddle	R. Spencer	270,142	Jan. 2	370	108	23	76
Saddle adjuster and fastener	O. W. Cline	289,225	Nov. 27	1789	495	25	845
Saddle and trimming. Harness	B. F. Cornish	290,402	Dec. 18	1280	360	25	1129
Saddle. Gig-	J. Bevard	274,260	Mar. 20	1307	360	23	1075
Saddle. Gig-	J. E. Rens	284,235	Sept. 4	101	27	24	921
Saddle. Gig or harness	J. Straus	270,505	Jan. 9	823	240	23	170
Saddle. Harness-	H. J. Bickle and J. E. Bridges	279,123	June 12	653	178	23	2245
Saddle. Harness-	E. V. Bretney	275,576	Apr. 10	925	251	23	1392
Saddle. Harness-	J. T. Gurney	280,739	July 3	485	137	24	86
Saddle. Harness-	B. J. Hartman	281,501	July 17	1454	398	24	269
Saddle. Harness-	M. C. Hayes	284,419	Sept. 4	320	89	24	957
Saddle. Harness-	S. A. Marker	278,349	May 29	2289	626	23	2048
Saddle. Harness-	H. C. McConnell	273,118	Feb. 27	1942	545	23	802
Saddle. Harness-	P. McFadden	284,039	Aug. 28	1921	537	24	871
Saddle. Harness-	J. B. Sulgrove	285,177	Sept. 18	1260	356	24	1134
Saddle. Harness-	S. E. Tompkins	286,347	Oct. 9	720	193	25	141
Saddle-horn	O. Rubarts	279,438	June 12	1041	289	23	2309
Saddle. Riding-	J. Bassler	286,674	Oct. 16	1126	303	25	220
Saddle. Riding-	W. C. Smalstig	272,341	Feb. 13	934	259	23	614
Saddle. Riding-	M. L. Tolbert	283,043	Aug. 14	681	191	24	628
Saddle. Riding-	W. R. Wilbourn	270,270	Jan. 9	523	153 154	23	112

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr's.	Official Gazette. Vol.	Official Gazette. Page.
Saddle. Riding	J. A. Wynne	270,196	Jan. 2	433	125	23	89
Saddle sweat-leather. Riding	J. W. Harriss	290,880	Dec. 25	1917	529	25	1946
Saddle tree. Side	W. R. Wilbourn	270,269	Jan. 9	522	153	23	112
Saddles. Device for making cart	F. A. Eveleth	288,933	Nov. 20	1432	394	25	773
Safe	J. S. Christie	270,888	Jan. 23	1312	379	23	276
Safe	M. Hemler	284,422	Sept. 4	323	90	24	958
Safe	J. N. Lauth and O. B. Hardy	283,120	Aug. 14	772	217	24	644
Safe	M. Mosler and M. Hemler	284,047	Aug. 28	1929	539	24	872
Safe. Burglar-proof	W. Corliss	271,313	Jan. 30	1835	533	23	371
Safe. Burglar-proof	W. Corliss	271,314	Jan. 30	1838	534	23	372
Safe. Burglar-proof	W. H. Hollar	290,052	Dec. 11	844	240	25	1042
Safe. Burglar-proof	C. A. E. Ruebel	271,131	Jan. 23	1608	462	23	394
Safe. Burglar-proof	E. Stockwell	286,068	Oct. 2	378	105	25	69
Safe. Burglar-proof	J. White	287,787	Oct. 30	2570	691 692	25	498
Safe-door	M. Mosler	289,124	Nov. 27	1668	463	25	892
Safe door. Fire-proof	M. Mosler	287,955	Nov. 6	207	60	25	544
Safe. Fire-proof	T. Brett	286,996	Oct. 23	1538	424	25	296
Safe. Fire-proof	H. C. Johnson	281,514	July 17	1470	404	24	271
Safe. Fire-proof	M. Mosler	273,585	Mar. 6	448	120	23	911
Safe. Fire-proof	M. Mosler	281,640	July 17	1624	444	24	296
Safe. Kitchen	J. S. Hagerty	290,879	Dec. 25	1917	529	25	1946
Safe. Kitchen	F. X. Oberle	274,021	Mar. 13	993	272	23	1012
Safe. Kitchen	J. H. Selby	289,311	Nov. 27	1887	525	25	864
Safe-lock	W. Corliss	271,312	Jan. 30	1831	532	23	371
Safe-lock	H. F. Newbury	270,829	Jan. 16	1238	357	23	257
Safe-lock	H. F. Newbury	270,830	Jan. 16	1239	358	23	257
Safe-lock	H. F. Newbury	271,103	Jan. 23	1576	454	23	319
Safe-lock	H. F. Newbury	283,644	Aug. 21	1409	395	24	768
Safe-lock guard	P. Laubenberger	274,346	Mar. 20	1421	389	23	1094
Safe or kitchen-cabinet. Provision	J. W. Ross	273,395	Mar. 6	204	55	23	868
Safe-spindles. Coupling device for	L. Moritz	269,953	Jan. 2	156	46	23	33
Safes. Explosion-protector for	W. De Lamater	269,920	Jan. 2	113	33	23	23
Safes. Protecting device for bank	A. Wiswall	286,566	Oct. 9	982	264	25	188
Safety-elevator	J. W. King	287,549	Oct. 30	2238	608	25	436
Safety-elevator	J. T. Pine	287,959	Nov. 6	215	61	25	545
Safety-gate	A. B. Flach. (Reissue)	10,342	June 19	1587	444	23	2409
Safety-hook	W. K. Rairigh	271,116	Jan. 23	1590	457	23	321
Safety-hook	W. K. Rairigh	273,310	Mar. 6	86	26	23	848
Safety-hook	E. H. Smith	286,739	Oct. 16	1210	326	25	235
Safety-pin	J. Jenkins	276,971	May 1	570	149	23	1724
Safety-pin	J. Jenkins	281,190	July 10	1054	291	24	193
Safety-pin	L. E. Smith	281,152	July 10	1001	280	24	183
Safety-pin	A. Van Houten	272,001	Feb. 6	513	137	23	529
Sail	E. Pinsham	287,465	Oct. 30	2130	579	25	414
Sail for vessels	F. Kraeger	288,819	Nov. 20	1295	355	25	748
Sail-hank	W. H. Peteler	277,338	May 8	1029	276	23	1809
Sail-rigging. Guide for	J. W. Sharrett	279,985	June 26	1692	475	23	2474
Sails. Mechanism for reefing	E. W. Andrews	282,599	Aug. 7	150	45	24	397
Sails. Reefing and furling fore-and-aft	T. O'Brien	287,707	Oct. 30	2459	662	25	477
Salt and apparatus for use therein and for other purposes. Manufacture of	H. Frasch	277,419	May 8	1116	299 300	23	1894
Salt, &c., and apparatus therefor. Graining or crystallizing	H. Frasch	277,418	May 8	1114	299	23	1894
Salt and pepper cup. Combined	T. B. Cleveland	287,628	Oct. 30	2357	636	25	457
Salt beds. Apparatus for obtaining brine from	J. A. Cook	287,909	Nov. 6	149	44	25	534
Salt-box	R. E Caine	286,384	Oct. 9	761	206	25	148
Salt-brine from deep veins. Method of and apparatus for making and raising.	G. H. Smith	273,623	Mar. 6	491	132	23	918
Salt-cellar	W. Rogers	270,131	Jan. 2	356	104	23	73
Salt-cellar or spice-box	A. G. Golding	270,189	Jan. 2	425	123	23	87
Salt-evaporating pan	G. H. Smith	287,183	Oct. 23	1777	487 488	25	342
Salt-evaporator	H. Knowlton	269,945	Jan. 2	148	43	23	31
Salt for table use. Preparing	C. A. Catlin	273,256	Mar. 6	17	.....	23	837
Salt-grainer	C. Héme	278,794	June 5	160	47	23	2150
Salt-water preparatory to purifying and evaporating the same. Apparatus for heating	M. R. Hayes	273,988	Mar. 13	952	262	23	1005
Salve	E. P. Lucas	284,314	Sept. 4	193	.....	24	937
Salve	A. Schirer	273,613	Mar. 6	479	.....	23	916
Sample-stand. Rotating	C. A. Schmidt	288,870	Nov. 20	1355	372	25	759
Sampling apparatus	G. S. Andrus	280,994	July 10	807	225	24	149
Sampling-tube or liquor-thief	W. P. O'Hara	275,684	Apr. 10	1076	294	23	1419
Sand-band	W. Cole	274,885	Mar. 27	2103	585	23	1219
Sand-band	W. M. Farr	282,066	July 31	2181	599	24	403
Sand-band	E. S. Sutton	283,301	Aug. 14	992	277	24	685
Sand-band	J. O. Waddell	274,535	Mar. 27	1688	468	23	1146
Sand-band	D. M. White and J. Hitchcock	279,682	June 19	1333	371	23	2364
Sand-bars. Apparatus for removing	J. H. Huffer	285,487	Sept. 25	1623	455	24	1205
Sand-bars, &c., from rivers and harbors. Apparatus for removing	O. H. P. Cornelius and G. H. Turner	284,387	Sept. 4	281	78	24	951
Sand-drier	W. W. Clark	278,883	June 5	284	82	23	2172
Sand-drier	J. G. McPherson	276,445	Apr. 24	2022	561	23	1597
Sandal	G. F. G. Morgan	288,653	Nov. 20	1091	299	25	712
Sandal or shoe. Anti-slipping	J. W. White	287,748	Oct. 30	2515	678	25	487
Sanding-box. Automatic	W. Corkill	289,984	Dec. 11	761	214	25	1038
Sand-paper machine	W. H. Doane	273,970	Mar. 13	935	257	23	1002
Sandpapering machine	G. D. Fearey	282,509	Aug. 7	39	12	24	507
Sandpapering-machine	J. R. Thomas, H. J. Cordesman, and F Danner.	287,340	Oct. 23	1973	539	25	377
Sandpapering-machine	H. T. Weirback and M. B. Bitting	277,090	May 8	734	192	23	1757
Sandpapering-machines. Sand-drum for	J. R. Thomas	275,733	Apr. 10	1123	307	23	1496
Sanitary devices, &c. Construction and ventilation of	M. F. Deegan	270,761	Jan. 16	1161	332	23	242
Sap-boiling apparatus	C. A. Butler	271,786	Feb. 6	244	68	23	483

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Sap-bucket holder	J. M. Lance	289,662	Dec. 4	359	101	25	950
Sap-feeder	E. J. Mitchelson	290,910	Dec. 25	1954	539	25	1252
Sash and frame. Window	J. Gruninger	273,355	Mar. 6	153	43	23	860
Sash-balance	G. W. Arnold	283,946	Aug. 28	1791	507	24	849
Sash-balance	J. Bavier	279,631	June 19	1272	353	23	2354
Sash-balance	E. Bradshaw	285,216	Sept. 18	1301	366	24	1141
Sash-balance	J. W. Lyons	278,348	May 29	2288	626	23	2048
Sash-balance	W. Ormsby	285,505	Sept. 25	1644	462	24	1209
Sash-balance	D. L. Phipps	278,042	May 22	1867	510	23	1967
Sash-balance	C. O. Power	282,367	July 31	2577	707	24	469
Sash-balance	W. Shumard	285,079	Sept. 18	1136	317	24	1113
Sash-balance	G. B. Smith	289,458	Dec. 4	99	28, 29	25	904
Sash-balance. Roller	R. B. Hugunin	286,931	Oct. 16	1447	397	25	275
Sash-bar. Flexible soft-metal	A. Friedrick	283,093	Aug. 14	737	207	24	638
Sash-bar. Lead	A. Friedrick	271,696	Feb. 6	134	37	23	463
Sash-cord fastener	H. Smith, Jr	286,857	Oct. 16	1356	372	25	261
Sash-cord fastener	B. Vogel	289,732	Dec. 4	454	127	25	966
Sash-cord guide	W. W. Boyington	290,203	Dec. 18	1028	289	25	1065
Sash-cord guide	W. S. Greening	280,609	July 3	326	91	24	58
Sash-cord guide	J. Shannon	274,831	Mar. 27	2031	565	23	1208
Sash-fastener	W. F. Bailey	280,892	July 10	684	193	24	128
Sash-fastener	H. Bausch	277,441	May 15	1153	310	23	1837
Sash-fastener	W. H. Bayles	285,210	Sept. 18	1295	364	24	1140
Sash-fastener	W. H. Bayles	285,211	Sept. 18	1295	365	24	1141
Sash-fastener	F. Bell	287,409	Oct. 30	2064	561	25	400
Sash-fastener	H. L. Bledgett	277,980	May 22	1787	487	23	1952
Sash-fastener	R. Chandler	275,048	Apr. 3	175	47	23	1255
Sash-fastener	F. Dudley	283,365	Aug. 14	1085	305	24	702
Sash-fastener	H. J. England	272,671	Feb. 20	1371	385	23	695
Sash-fastener	E. and H. S. Ensminger	282,290	July 31	2466	680	24	451
Sash-fastener	H. B. Frost	270,542	Jan. 9	880	255	23	182
Sash-fastener	S. R. Harrah	279,749	June 19	1406	392	23	2378
Sash-fastener	M. Judd	281,768	July 24	1807	494	24	333
Sash-fastener	E. Kempshall	283,896	Aug. 28	1724	486	24	835
Sash-fastener	H. T. King	276,050	Apr. 17	1522	418	23	1503
Sash-fastener	H. T. King	280,935	July 10	746	208	24	137
Sash-fastener	J. Kubler	278,802	June 5	169	50	23	2151
Sash-fastener	J. H. Lacerte	279,771	June 19	1427	399	23	2382
Sash-fastener	M. W. Mahar	275,778	Apr. 10	1189	326	23	1437
Sash-fastener	M. W. Mahar	275,779	Apr. 10	1190	326	23	1437
Sash-fastener	P. Mathis	283,502	Aug. 21	1255	352	24	738
Sash-fastener	R. McCloskey and D. J. Coleman	282,005	July 24	2095	574	24	383
Sash-fastener	W. L. McKelvey	277,591	May 15	1331	357	23	1866
Sash-fastener	A. Montant	281,714	July 24	1730	470	24	319
Sash-fastener	C. Morrill	284,046	Aug. 28	1927	539	24	872
Sash-fastener	H. S. Ohl, Jr	281,291	July 17	1187	328	24	223
Sash-fastener	J. Outhwaite	285,919	Oct. 2	180	52	25	35
Sash-fastener	F. D. Paradise	288,731	Nov. 20	1195	326	25	729
Sash-fastener	G. E. Parmelee	280,950	July 10	762	211	24	140
Sash-fastener	A. M. Rants and C. L. Engelhardt	275,706	Apr. 10	1089	297	23	1420
Sash-fastener	G. W. Reeve	286,224	Oct. 9	540	148	25	109
Sash-fastener	J. O. Reily	270,607	Jan. 16	966	279	23	206
Sash-fastener	W. E. Rines	280,400	July 3	75	20	24	16
Sash-fastener	J. S. Sammons	271,367	Jan. 30	1916	554	23	385
Sash-fastener	T. S. Smith	286,859	Oct. 16	1357	372	25	261
Sash-fastener	W. E. Sparks	270,993	Jan. 23	1448	417	23	298
Sash-fastener	W. E. Sparks	279,838	June 19	1506	421	23	2395
Sash-fastener	W. E. Sparks	284,506	Sept. 4	426	121	24	976
Sash-fastener	E. J. Steele	270,347	Jan. 9	621	183	23	131
Sash-fastener	E. R. Wethered	287,747	Oct. 30	2514	678	25	487
Sash-fastener	W. H. Wolfrath	280,987	July 10	801	223	24	147
Sash-follower	J. J. Dwyer	283,384	Aug. 21	1111	313	24	719
Sash for glazing purposes. Building lead	A. Friedrick	271,697	Feb. 6	134	37	23	463
Sash-holder	W. Abele	284,993	Sept. 18	1031	289	24	1095
Sash-holder	H. H. Asmont	288,611	Nov. 20	1035	285	25	703
Sash-holder	J. M. Baldwin	275,456	Apr. 10	777	208	23	1367
Sash-holder	R. B. Callahan	280,445	July 3	135	36	24	25
Sash-holder	W. P. Clason	280,292	June 26	2059	579	23	2499
Sash-holder	M. Commander	286,909	Oct. 16	1425	391	25	271
Sash-holder	W. Conner	281,458	July 17	1403	385	24	259
Sash-holder	J. Felt	286,125	Oct. 2	422	115	25	78
Sash-holder	F. H. Gross	275,903	Apr. 17	1349	371	23	1473
Sash-holder	N. N. Horton	276,409	Apr. 24	1980	548	23	1589
Sash-holder	S. Lear	278,439	May 29	2401	654	23	2068
Sash-holder	G. W. Lewin	270,229	Jan. 9	478	141	23	104
Sash-holder	W. C. Mathews	280,643	July 3	367	102	24	65
Sash-holder	M. L. Nix and S. McClelland	271,905	Feb. 6	387	106	23	509
Sash-holder	B. F. Reynolds	291,003	Dec. 25	2090	576	25	1273
Sash-holder	F. L. Rosentreter	242,928	Aug. 7	534	151	24	595
Sash-holder	E. E. Shepard	286,559	Oct. 9	973	262	25	187
Sash-holder	C. E. Steller	288,273	Nov. 13	605	165	25	621
Sash-holder	S. S. Waterhouse	273,327	Mar. 6	113	32	23	853
Sash lifter and lock. Automatic	C. W. Elliott	278,323	May 29	2249	617	23	2040
Sash-lock	F. Osterhage	285,659	Sept. 25	1828	521	24	1244
Sash-securer. Portable	R. Bettermann	283,460	Aug. 21	1202	338	24	720
Sash sticks. Machine for boring and grooving	J. T. Bierds	289,497	Dec. 4	160	43	25	914
Sash-weight	J. J. Johnston	273,238	Feb. 27	2095	587	23	828
Sash-weight	G. B. Smith	276,913	May 1	484	127	23	1711
Sash-weight	R. Vosburgh	276,509	Apr. 24	2103	584	23	1611
Sash. Window	B. Hurtubes	276,416	Apr. 24	1989	551	23	1590
Sash. Window	T. F. Lang	281,379	July 17	1297	359	24	242
Sash. Window	R. Langtry	275,223	Apr. 3	437	120	23	1301
Sash. Window	T. Lanston	290,071	Dec. 11	865	246	25	1046
Sash. Window	A. Rudolph	276,886	May 1	452	121	23	1706

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Sash. Window	A. Rudolph	276,887	May 1	453	128	23	1706
Sash. Window	F. R. Wolfinger	288,751	Nov. 20	1218	333	25	733
Sashes. Machine for shaping meeting-rails for	G. W. Steele	290,809	Dec. 25	1837	508	25	1232
Satchel	S. Scheuer	273,398	Mar. 6	207	56	23	869
Satchel and muff	L. Havasy	273,523	Mar. 6	361	96	23	896
Satchel and muff. Combined	L. Havasy	284,296	Sept. 4	176	50	24	934
Satchel-lock	R. Flocke	279,733	June 19	1389	387	23	2374
Satchel. Traveling	J. W. Peirson	285,305	Sept. 18	1401	396	24	1161
Sauce. Table	M. H. Lackersteen	281,276	July 17	1170	.....	24	230
Sausage-stuffer	H. Bixler	283,852	Aug. 28	1671	472	24	626
Sausage-stuffing machine	J. Armstrong	288,540	Nov. 13	946	259	25	680
Sausage-stuffing machine	T. Williams, Jr., and W. Sangster	276,115	Apr. 17	1606	442	23	1517
Saw	O. M. Allaben	284,793	Sept. 11	788	219	24	1043
Saw	A. Boynton and H. W. Peace	274,708	Mar. 27	1889	527	23	1183
Saw	J. E. Emerson	281,252	July 17	1145	316	24	215
Saw	J. E. Emerson	281,253	July 17	1147	316	24	216
Saw	E. H. Gabus	277,021	May 8	644	168	23	1742
Saw	N. Girrens	288,791	Nov. 20	1266	346	25	742
Saw and edge-molder. Scroll	A. Showalter	279,785	Feb. 20	1511	426	23	730
Saw-arbor	T. N. Hacket	271,840	Feb. 6	310	85	23	495
Saw-arbors. Swinging bridge for	D. J. Murray	288,589	Nov. 13	1008	277	25	692
Saw attachment. Hand	H. Winter	275,559	Apr. 10	907	246	23	1369
Saw-blades. Process of and machine for straightening, tempering, and flattening	J. E. Emerson	286,284	Oct. 9	641	171	25	127
Saw. Buck	J. F. French	281,627	July 17	1612	441	24	294
Saw. Buck	W. H. Grubb	290,042	Dec. 11	836	236	25	1040
Saw. Buck	E. A. Learned	277,141	May 8	802	210	23	1769
Saw-buck	H. Floyd	274,304	Mar. 20	1363	374	23	1064
Saw-buckle for reciprocating saws	W. M. Wilkin	286,354	Oct. 9	728	195	25	142
Saw. Chain	M. Newlove	285,651	Sept. 25	1818	518	24	1242
Saw. Channeling	J. Lesher	285,633	Sept. 25	1800	513	24	1239
Saw. Circular	C. H. Douglas	274,922	Apr. 3	46	12	23	1233
Saw-clamp	L. Davis	275,603	Apr. 10	960	260	23	1399
Saw-clamp	G. N. Stearns	288,376	Nov. 13	745	202	25	645
Saw. Crosscut	E. H. Gabus	271,056	Jan. 23	1517	437	23	309
Saw. Drag	O. Fachmon	285,962	Oct. 2	252	71	25	48
Saw-drag	M. A. Ekl, A. Hoyda, M. Cizek, and V. Skala.	288,558	Nov. 13	968	266	25	684
Saw-drag	G. G. Seeger	288,264	Nov. 13	592	163	25	619
Saw. Drag	E. B. Stilson	271,149	Jan. 23	1626	468	23	398
Saw. Drag	C. Thompson	271,159	Jan. 23	1643	472	23	330
Saw. Drag	N. K. Watson	275,443	Apr. 10	763	203	23	1364
Saw-feeding device	M. S. Harsha	288,330	Nov. 13	677	186	25	633
Saw filing and setting machine	J. Berton	285,557	Sept. 25	1704	480 481 527 528	24	1221
Saw-filing machine	A. B. Fisher	290,875	Dec. 25	1912		25	1245
Saw-filing machine	C. F. Hill	283,393	Aug. 21	1119	316	24	714
Saw-filing machine	J. A. Rihl	290,357	Dec. 18	1224	344	25	1118
Saw. Fire-wood circular	A. Albles	273,425	Mar. 6	237	64	23	874
Saw-frame	W. Jones	284,432	Sept. 4	334	93	24	960
Saw frame. Band	A. Friedli	286,919	Oct. 16	1435	394	25	273
Saw frame. Buck	W. Clemson	281,837	July 24	1695	517	24	349
Saw frame. Crosscut	A. Schooley	286,966	Oct. 16	1494	411	25	284
Saw-frame for circular-saw mills	T. L. Carley	290,174	Dec. 11	983	277	25	1069
Saw gage. Rip	T. A. McDonald	272,734	Feb. 20	1449	406	23	709
Saw. Gin	C. W. Mann	287,450	Oct. 30	2112	574	25	410
Saw-guard	L. Bertsche and F. Lofink	272,114	Feb. 13	667	182	23	567
Saw-guard	A. H. Gretschel	285,407	Sept. 25	1530	431	24	1188
Saw-guard	J. G. Groff	277,711	May 15	1470	397	23	1890
Saw-guard	J. G. Groff	278,130	May 22	1976	543	23	1985
Saw-guard	J. G. Groff	284,199	Sept. 4	53	15	24	913
Saw-guard	T. P. Heinemann	281,690	July 24	1699	402	24	314
Saw-guard	L. Hofmann	284,849	Sept. 11	850	239	24	1055
Saw-guard	H. F. Kuhlmann	281,274	July 17	1168	323	24	220
Saw-guard	H. F. Kuhlmann	281,275	July 17	1169	323	24	220
Saw-guard	H. F. Kuhlmann	286,710	Oct. 16	1175	316	25	228
Saw-guard	A. T. McDonald	287,949	Nov. 6	202	58	25	542
Saw-guard	D. W. Swank	273,404	Mar. 6	213	57	23	870
Saw-guide	E. F. Allen	279,515	June 19	1137	315	23	2331
Saw-guide	J. B. Bradley	288,768	Nov. 20	1237	339	25	737
Saw-guide	A. Hackett	286,295	Oct. 9	657	175	25	129
Saw-guide	A. Hackett	286,296	Oct. 9	657	175	25	129
Saw-guide	F. Harrison	284,007	Aug. 28	1887	529	24	864
Saw-guide	L. O. Orton	288,727	Nov. 20	1191	325	25	728
Saw-guide. Adjustable	H. Carman	270,387	Jan. 9	677	201	23	142
Saw guide. Band	R. McChesney	276,259	Apr. 24	1779	495	23	1555
Saw-guide. Circular	S. R. Smith and E. Myers	270,139	Jan. 2	368	107	23	75
Saw-guide. Horizontal	J. J. Sadler	277,351	May 8	1043	280	23	1812
Saw-gummer	G. Van Nostrand	290,947	Dec. 25	2007	553	25	1260
Saw. Hand	G. W. Griffin	278,935	June 5	395	108	23	2190
Saw. Hand	H. F. Hoffman	280,928	July 10	734	204	24	135
Saw. Hand	G. G. McChesney	270,822	Jan. 16	1231	355	23	258
Saw. Hand	T. U. Mekeel	280,497	July 3	201	53	24	36
Saw. Hand	D. A. Neidig	279,975	June 26	1682	472	23	2431
Saw. Hand-power log	H. C. Yerby and E. B. Stilson	282,943	Aug. 7	553	156	24	589
Saw-handle	F. Brunson	278,088	May 22	1919	526	23	1976
Saw-handle	F. A. Buell	281,447	July 17	1391	382	24	257
Saw-handle	J. Class	274,474	Mar. 20	1324	365	23	1078
Saw-handle	J. Class	280,579	July 3	293	81	24	52
Saw-handle	J. N. Dudley	283,221	Aug. 14	893	249	24	666
Saw-handle	B. Goulton	270,419	Jan. 9	714	211	23	149
Saw-handle	J. Hall and L. St. André	277,026	May 8	648	168	23	1742
Saw-handle	H. P. Hood	284,739	Sept. 11	717	200	24	1032

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Saw-handle	J. Neimeyer	277,502	May 15	1223	329	23	1849
Saw-handle	W. W. Richardson	275,414	Apr. 10	729	192	23	1359
Saw-handle	W. W. Richardson	286,638	Oct. 16	1061	291	25	212
Saw-handle	J. R. Woodrough	272,007	Feb. 6	518	139	23	529
Saw-handle. Auxiliary	E. C. Atkins	287,790	Nov. 6	4	2	25	507
Saw handle. Crosscut	A. Sloan	286,968	Oct. 16	1496	411	25	284
Saw-handles. Re-enforcing plate for	W. H. Hankin, Jr., and C. Tinney	280,612	July 3	329	92	24	58
Saw-heating furnace	E. C. Atkins	288,968	Nov. 27	1478	410	25	789
Saw-holding device	J. B. Bradley	288,767	Nov. 20	1236	339	25	737
Saw-jointer	W. H. Smith	277,364	May 8	1056	284	23	1815
Saw jointer, set, and gage combined	J. Gehring	285,609	Sept. 25	1772	502	24	1233
Saw machine. Band	W. G. Vernon	284,580	Sept. 4	515	144	24	991
Saw machine. Drag	J. C. Wygant	271,968	Feb. 6	465	127	23	529
Saw-mill	J. F. Carter and T. Seely	279,537	June 19	1165	322	23	2335
Saw-mill	J. Lucia	284,870	Sept. 11	872	244, 245	24	1059
Saw-mill	J. Walrath	278,064	May 22	1898	517	23	1971
Saw-mill	J. C. Wuerfel	272,610	Feb. 20	1296	361	23	681
Saw mill. Band	A. Smith	283,157	Aug. 14	813	227	24	650
Saw-mill carriage	C. Schoch	274,227	Mar. 20	1265	349	23	1067
Saw-mill-carriage-feeding device	O. S. Hutchinson	286,201	Oct. 9	516	142	25	106
Saw mill. Circular	W. J. F. Liddell	274,129	Mar. 20	1141	314	23	1044
Saw-mill dog	J. Ackerman, A. O. Mitchell, and F. M. Underwood.	274,099	Mar. 20	1097	303	23	1037
Saw-mill dog	T. H. Bottomley	277,981	May 22	1789	488	23	1953
Saw-mill dog	G. H. Cameron	282,048	July 31	2155	591	24	399
Saw-mill dog	C. E. Clark	285,969	Oct. 2	238	67	25	45
Saw-mill dog	T. H. Kennedy	277,841	May 15	1621	442	23	1918
Saw-mill dog	G. F. Knight	272,838	Feb. 20	1589	446	23	734
Saw-mill dog	W. J. F. Liddell	285,824	Oct. 2	50	16	25	11
Saw-mill dog	J. B. Michener and T. L. Varns	289,016	Nov. 27	1533	424	25	798
Saw-mill dog	J. Moore	287,308	Oct. 23	1937	529	25	370
Saw-mill dog	A. Myers	284,973	Sept. 11	995	280	24	1062
Saw-mill dog	G. M. Pelton	289,853	Dec. 11	604	168	25	999
Saw-mill dog	J. Redline, Jr	290,355	Dec. 18	1222	343	25	1118
Saw-mill feed mechanism	E. S. Laughinghouse	284,443	Sept. 4	345	95	24	962
Saw-mill feed mechanism	G. F. Lidy	290,078	Dec. 11	875	249	25	1048
Saw-mill feed mechanism	S. R. Smith and E. Myers	270,140	Jan. 2	389	107	23	75
Saw-mill-feed mechanism	W. M. Wilkin	286,357	Oct. 9	732	196	25	143
Saw-mill feed-roll	T. M. Chapman	273,817	Mar. 13	752	204	23	971
Saw-mill head-block	H. R. Barnhurst	281,750	July 24	1777	484	24	327
Saw-mill head-block	G. H. Zschech	276,321	Apr. 24	1876	521	23	1570
Saw-mill head-block facing	A. F. Griswold	281,762	July 24	1798	491	24	332
Saw-mill head-block gear	M. C. Meeker	281,100	July 10	933	261	24	172
Saw-mill log-roller	J. Lucia	273,561	Mar. 6	416	111	23	905
Saw-mill log-turning attachment	H. C. and W. N. Bowers	290,124	June 26	1859	524	23	2464
Saw-mill. Portable	L. Traxler	271,546	Jan. 30	2139	615	23	425
Saw mill. Portable band	H. W. Groves	278,936	June 5	396	108, 109	23	2191
Saw-mill. Reciprocating	J. H. Berkshire	272,630	Feb. 20	1322	371	23	686
Saw mill. Reciprocating	W. M. Wilkin	286,355	Oct. 9	729	195, 196	25	142
Saw-mill set-works	T. L. Carley, L. F. Powell, and H. H. Boggs.	290,531	Dec. 18	1471	406	25	1161
Saw-mill set-works	F. J. Korte	286,022	Oct. 2	298	83	25	56
Saw-mill set-works	A. C. Osborn	282,214	July 31	2383	656	24	436
Saw-mill set-works	W. P. Scofield	289,572	Dec. 4	252	71	25	932
Saw-mill set-works	B. E. Sergeant	283,670	Aug. 21	1442	404	24	774
Saw-mill set-works	W. H. Snyder	284,081	Aug. 28	1972	549	24	879
Saw-mill set-works	E. W. Strange	290,137	Dec. 11	943	267	25	1061
Saw-mill steam feed-works	A. Cunningham	274,568	Mar. 27	1725	479	23	1153
Saw mills. Binding-roller for gang	A. Yarnall	288,910	Nov. 20	1405	387	25	768
Saw mills. Delivery-roller for circular	J. A. Hay and J. Ralston	273,072	Feb. 27	1880	528	23	790
Saw mills. Device for oscillating the guides of reciprocating	G. M. Hinkley	273,361	Mar. 6	159	45	23	861
Saw-mills. Steam-feed works for	G. Clark	275,800	Apr. 17	1229	336	23	1451
Saw-mills. Steam set-works for	G. Clark and W. J. Taylor	275,468	Apr. 10	796	215, 216	23	1370
Saw-plate and inserted saw-tooth	J. J. Bowen	283,197	Aug. 14	868	242	24	661
Saw. Reaming	G. Meyer	281,105	July 10	938	262	24	173
Saw-relief mechanism for saw-mills	W. M. Wilkin	286,356	Oct. 9	731	196	25	143
Saw. Segment	J. Connell and V. Dengler	279,344	June 12	918	256	23	2288
Saw-set	J. T. East	279,140	June 12	673	185	23	2248
Saw-set	J. Garland	282,304	July 31	2492	684	24	455
Saw-set	B. L. Randall	279,015	June 5	491	133	23	2207
Saw set and jointer. Combined	J. W. Pugh	274,030	Mar. 13	1003	274, 275	23	1014
Saw set and punch	W. G. Avery	282,600	Aug. 7	151	45	24	527
Saw setting and gumming machine	P. D. and C. W. Dunn	284,192	Sept. 4	40	12	24	911
Saw setting and jointing device	M. E. Beach and A. Burch	272,625	Feb. 20	1315	366	23	685
Saw setting and sharpening device	M. Cowles	280,138	June 26	1874	528	23	2467
Saw-setting device	E. H. Ketchum	287,835	Nov. 6	55	16, 17	25	517
Saw setting, swaging, and sharpening machine	J. C. Stevens	276,641	May 1	121	32	23	1648
Saw-sharpening gage	L. N. Torrence and R. T. Reid	286,348	Oct. 9	721	193	25	141
Saw-sharpening machine	J. P. Hansen	285,126	Sept. 18	1196	335	24	1123
Saw-swage	P. B. Charboneau	287,363	Oct. 23	2002	545	25	382
Saw-swage	K. E. Conant	284,185	Sept. 4	33	8, 9	24	910
Saw-swage	M. Covel	278,684	June 5	10	3	23	2126
Saw-swage	M. Covel	279,718	June 19	1371	382, 383	23	2371
Saw-swage	W. Kelly	279,251	June 12	792	219	23	2269
Saw-swage	S. Kinney	279,769	June 19	1425	398	23	2381
Saw-swage	J. Mather	277,589	May 15	1329	357	23	1865
Saw-tab	J. D. Ryan and P. Laue	288,867	Nov. 20	1351	371	25	758

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr's.	Vol.	Page.
Saw-table	J. W. Cole	279,341	June 12	915	255	23	2288
Saw-table gage	D. K. Barnhart	271,018	Jan. 23	1476	425	23	302
Saw-table gage	J. R. Brennan	271,408	Jan. 30	1964	568	23	395
Saw-table gage	J. H. Hamlet	287,124	Oct. 23	1701	466	25	388
Saw-table. Portable	J. C. Leslie	279,098	June 5	600	163	23	2226
Saw-teeth. Device for dressing	S. H. Chase	272,530	Feb. 20	1195	333	23	663
Saw-teeth. Machine for swaging	J. Orm	272,465	Feb. 20	1107	313	23	648
Saw-teeth. Making insertible	W. Hawkins	280,617	July 3	334	93	24	59
Saw-tooth	R. W. Prosser	272,319	Feb. 13	906	254	23	610
Saw-tooth	E. Smith	289,576	Dec. 4	256	72	25	932
Saw-tooth	N. W. Spaulding. (Reissue)	10,312	Apr. 10	1219	333	23	1442
Saw-tooth. Insertible	E. T. Lippert	283,623	Aug. 21	1386	387	24	763
Saw-tooth. Insertible	J. O'Grady	286,478	Oct. 9	868	236	25	168
Saw-tooth. Insertible	W. B. Risdon	289,715	Dec. 4	436	122	25	902
Saw-tooth. Insertible	G. W. Stinebring	285,176	Sept. 18	1260	353	24	1134
Saw-tooth. Insertible	T. J. Thompson	286,091	Oct. 2	382	106	25	70
Saw-tooth. Insertible	W. Zerman	274,876	Mar. 27	2093	581	23	1217
Saw-tooth. Insertible diamond	E. Foerster	273,054	Feb. 27	1862	523	23	788
Saw-tooth swage	N. L. Gano	280,598	July 3	312	87	24	56
Saws. Adjusting edger	S. Erb	289,819	Dec. 11	556	156	25	991
Saws. Bevel attachment for hand	E. Andrews	283,319	Aug. 14	1015	284	24	689
Saws. Cleansing	W. Bowker	279,698	June 19	1351	376	23	2367
Saws. Kerfing-gage for	W. C. Jones	286,018	Oct. 2	292	82	25	55
Saws. Machine for sharpening gin	A. P. Gathright	290,031	Dec. 11	821	{231 / 232}	25	1038
Saws. Oscillating guide for gang	C. H. Weston	286,351	Oct. 9	725	194	25	142
Sawdust-conveyer	J. M. Elliott, Jr	271,892	Feb. 6	287	79	23	492
Sawing and channeling machine	D. W. Williams	270,532	Jan. 9	867	252	23	180
Sawing and gaining machine	L. Gould	290,327	Dec. 18	1188	333	25	1112
Sawing clapboards or rift siding. Machine for	S. Babcock	273,701	Mar. 13	594	159	23	943
Sawing-machine	C. A. Dietrich	280,144	June 26	1883	529	23	2468
Sawing-machine	J. T. H. Drake	280,149	June 26	1888	531	23	2469
Sawing-machine	J. Hendershot	271,454	Jan. 30	2022	584	23	405
Sawing-machine	R. J. Henson	290,425	Dec. 18	1327	368	25	1135
Sawing-machine	W. E. Hill	276,401	Apr. 24	1970	{545 / 546}	23	1567
Sawing-machine	S. Hirschy	290,051	Dec. 11	843	239	25	1042
Sawing-machine	H. M. Irwin	288,440	Nov. 13	826	224	25	659
Sawing-machine	G. McCoy	284,038	Aug. 28	1920	537	24	870
Sawing-machine	G. W. Merrill	279,967	June 26	1674	470	23	2430
Sawing machine	W. T. Moore and G. R. Jackson	286,548	Oct. 9	957	258	25	184
Sawing-machine	W. T. Moore and G. R. Jackson	287,951	Nov. 6	204	59	25	543
Sawing-machine	H. K. Olsen	275,069	Apr. 3	248	69	23	1268
Sawing-machine	O. F. Stedman	287,975	Nov. 6	233	66	25	548
Sawing-machine	J. Vanston	274,419	Mar. 20	1509	415	23	1110
Sawing machine. Band	W. W. Carey	275,139	Apr. 3	341	94	23	1285
Sawing machine. Band	J. W. Smith	276,197	Apr. 24	1705	471	23	1542
Sawing-machine. Chain	F. L. Magaw	279,780	June 19	1438	{402 / 403}	23	2383
Sawing machine. Circular	L. Gould	287,275	Oct. 23	1891	518	25	362
Sawing machine. Circular	G. Gowan	288,173	Nov. 6	468	130	25	589
Sawing machine. Clapboard	H. Taber	279,287	June 12	834	231	23	2276
Sawing machine. Crosscut	W. A. Doherty and C. G. Van Sickel	280,457	July 3	151	41	24	28
Sawing machine. Drag	A. A. Atwood	287,895	Nov. 6	133	39	25	531
Sawing machine. Gang	D. J. Murray	288,723	Nov. 20	1186	324	25	727
Sawing machine. Kindling-block	J. L. Seymour	290,711	Dec. 25	1710	471	25	1209
Sawing machine. Lath	A. Carrier	289,219	Nov. 27	1782	494	25	843
Sawing-machine. Portable steam	E. N. Dunckel	284,620	Sept. 11	564	160	24	1006
Sawing machine. Scroll	A. McCreight	272,070	Feb. 13	604	164	23	556
Sawing machine. Slab	J. B. Lemieux	290,589	Dec. 18	1540	424	25	1173
Sawing machines. Feed mechanism for lath	J. A. Robb	288,493	Nov. 13	804	243	25	671
Sawing segment-blocks. Machine for	H. C. Crowell	275,807	Apr. 17	1935	{338 / 339 / 340}	23	1453
Scaffold	W. A. Gillett	279,740	June 19	1396	390	23	2376
Scaffold and fire-escape	J. Klein	284,308	Sept. 4	187	52, 53	24	936
Scaffold-bracket	A. D. Hart	284,845	Sept. 11	846	238	24	1054
Scaffold. Mechanic's	L. T. Steele	277,953	May 22	1756	479	23	1947
Scaffold or mortar-board. Builder's	S. Dale	283,214	Aug. 14	886	247	24	665
Scaffold. Portable hanging	J. H. Hanavan	276,241	Apr. 24	1759	490	23	1552
Scaffold-support	T. J. Shaughnessy	290,487	Dec. 18	1406	388	25	1150
Scaffolds. Support for swinging or pendant	J. T. Churchill	288,977	Nov. 27	1492	413	25	792
Scaffolding. Roof	A. R. Manley	283,908	Aug. 28	1737	490	24	838
Scale	A. A. Houghton	280,377	July 3	46	12	24	10
Scale and indicator	C. D. Vernon	284,692	Sept. 11	658	185	24	1021
Scale. Automatic car	C. Lederer	283,619	Aug. 21	1381	386	24	762
Scale. Automatic grain	J. B. Stoner	289,784	Dec. 4	509	141	25	975
Scale. Automatic weighing	N. A. Jones	270,078	Jan. 2	292	87	23	59
Scale, bagger, and register. Combined grain	C. J. Leach and A. Olds	287,692	Oct. 30	2437	656	25	474
Scale. Beam	A. H. Emery	278,900	June 5	303	88	23	2175
Scale. Beam	A. H. Emery	278,901	June 5	306	88	23	2176
Scale-beam	A. R. English	279,548	June 19	1177	326	23	2337
Scale-beam	I. Rigdon	271,274	Jan. 30	1784	518	23	362
Scale-beams. Indicating-poise for	R. L. Hassell	274,493	Mar. 27	1631	{452 / 453}	23	1137
Scale. Beer	P. Vaughan	290,153	Dec. 11	962	272	25	1065
Scale-board-rounding machine	L. H. Sparks	269,893	Jan. 2	84	25	23	18
Scale. Counter	D. Buoy	277,878	May 22	1672	456	23	1933
Scale. Counter	A. A. Houghton	276,180	Apr. 24	1684	465	23	1539
Scale for weighing diamonds, balance-screws of watches, &c.	F. F. Ide	272,699	Feb. 20	1405	394	23	701
Scale. Kitchen	T. D. Solomon	280,252	June 26	2011	565	23	2491
Scale-pan	G. H. Chatillon	271,790	Feb. 6	249	69	23	484
Scale-pen for weighing cattle	A. Borror, Jr	283,371	Aug. 21	1098	309	24	710

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Scale. Pendulum	A. Onslow	281,292	July 17	1188	328, 329	24	223
Scale. Platform	A. H. Emery	278,902	June 5	310	88, 89	23	2176
Scale. Platform	A. H. Emery	278,903	June 5	315	89	23	2177
Scale. Platform	A. H. Emery	278,904	June 5	318	90	23	2177
Scale. Platform	A. H. Emery	278,905	June 5	320	90	23	2178
Scale. Platform	F. Fairbanks	285,600	Sept. 25	1760	499	24	1231
Scale. Platform	C. C. Miller	271,726	Feb. 6	165	46	23	469
Scale. Postal	J. F. Miller	276,701	May 1	211	54, 55	23	1660
Scale. Railway	J. L. Merrill	286,465	Oct. 9	855	232	25	166
Scale. Spring	J. S. George	273,720	Mar. 13	613	165	23	946
Scale. Spring	J. F. Kingwill	282,645	Aug. 7	205	59	24	535
Scale. Spring-balance counter	F. W. Runge	289,450	Dec. 4	92	26, 27	25	903
Scale. Weighing	W. G. Collier	281,753	July 24	1783	485, 486	24	329
Scale. Weighing	W. C. Farnum	279,864	June 19	1541	431	23	2401
Scale. Weighing	F. I. Hitchcock	285,815	Oct. 2	41	13	25	9
Scale. Weighing	A. A. Houghton	270,221	Jan. 9	471	138	23	103
Scale. Weighing	F. Huebner	276,693	May 1	204	52	23	1659
Scale. Weighing	C. W. Walley	281,586	July 17	1555	425	24	284
Scale-weight. Indicating	R. L. Hassell	274,494	Mar. 27	1634	453, 454	23	1137
Scale. Wheat and flour	G. M. Knight	277,292	May 8	975	262	23	1800
Scales. Scoop-balance attachment for weighing	A. Leas	287,136	Oct. 23	1714	469	25	331
Scarf	C. W. Manley	276,845	May 1	399	105	23	1696
Scarf	F. O. McCleary	278,444	May 29	2406	656	23	2069
Scarf and collar fastener	A. Waldherr	273,200	Feb. 27	2041	574	23	819
Scarf, &c., holder	J. Lockwood and W. A. Keys	285,281	Sept. 18	1374	368	24	1156
Scarf. Neck	C. H. Crossette	278,316	May 29	2236	613	23	2039
Scarf. Neck	I. Noar	278,588	May 29	2568	702	23	2098
Scarf. Neck	I. Noar	289,356	Nov. 27	1946	540	25	875
Scarf. Neck	B. Richter	284,484	Sept. 4	393	110	24	971
Scarf. Neck	C. E. Ward	288,387	Nov. 13	763	206	25	647
Scarf-shield	T. J. Flagg	288,169	Nov. 6	463	129	25	588
School-chair	O. C. Clark	275,021	Apr. 3	188	50	23	1257
School-indicator	G. Hogan	276,819	May 1	367	97	23	1660
Scissors	J. D. Frary	275,629	Apr. 10	1001	270	23	1404
Scissors-holder	M. A. Warne	287,745	Oct. 30	2511	676	25	487
Scoop	R. T. Pettebone	282,363	July 31	2571	705	24	469
Scoop. Grocer's	A. Button	282,493	Aug. 7	16	4	24	504
Scoop. Lard or butter	J. Small and J. H. Caler	282,677	Aug. 7	241	70	24	541
Scoop. Weighing	I. L. Bevis	271,210	Jan. 30	1711	496	23	350
Scoop. Weighing	J. and H. Friedländer	273,979	Mar. 13	914	260	23	1003
Scourer: *See* Grain-scourer. Knife-scourer.							
Scouring, scratching, and buffing wheel	O. Brunelle	285,222	Sept. 18	1307	368	24	1143
Scouring wheat, &c. Machine for	J. T. Ewan	287,370	Oct. 23	2012	547	25	384
Scow. Deck dumping	G. Souther	273,178	Feb. 27	2016	567	23	815
Scow. Dumping	N. Barney	271,298	Jan. 30	1617	527	23	368
Scow. Dumping	M. F. Brainard	289,498	Dec. 4	162	44	25	914
Scow. Dumping	J. Smith and J. P. Rhodes	280,871	July 10	661	186	24	124
Scow. Dumping	A. Stierle	278,829	June 5	208	62	23	2158
Scraper and brush. Combined	O. Bushnell	272,119	Feb. 13	671	183	23	568
Scraper and elevator	T. H. Apple	289,331	Nov. 27	1918	533	25	870
Scraper. Boot	M. A. Collins	287,242	Oct. 23	1859	508	25	355
Scraper, cart, and dump. Combined road	A. S. Hughes	279,093	June 5	593	161, 162	23	2294
Scraper. Dirt	W. H. Deidrick	275,893	Apr. 17	1338	368	23	1471
Scraper. Dirt	D. A. Faulkner	290,410	Dec. 18	1291	362	25	1130
Scraper. Dirt	J. Porteous	275,075	Apr. 3	254	70	23	1269
Scraper. Dirt	J. Porteous	289,134	Nov. 27	1679	466	25	824
Scraper. Ditch and road	J. W. Hedges, J. S. and T. J. Gill	281,875	July 24	1942	531	24	357
Scraper. Earth	A. R. Byrkett	273,253	Mar. 6	14	4	23	837
Scraper. Earth	A. R. Byrkett. (Reissue)	10,370	Aug. 21	1532	432	24	791
Scraper. Earth	W. Haslup	278,953	June 5	416	114	23	2194
Scraper. Earth	W. Haslup	284,418	Sept. 4	320	89	24	957
Scraper. Earth	E. D. Humphreys	273,538	Mar. 6	382	101	23	899
Scraper. Foot	C. B. Pushee	286,329	Oct. 9	701	187	25	137
Scraper, leveler, and ditching-machine. Combined dirt	J. Johnson	283,113	Aug. 14	765	215	24	643
Scraper or excavator. Wheeled	W. E. Jacobs	289,841	Dec. 11	590	164	25	997
Scraper, plow, and cultivator. Combined	H. L. P. Pool	279,429	June 12	1032	286	23	2306
Scraper. Road	L. R. Brooks	284,604	Sept. 11	544	154	24	1002
Scraper. Road	J. W. Davis	285,581	Sept. 25	1735	490	24	1226
Scraper. Road	W. Doan	282,862	Aug. 7	465	131	24	582
Scraper. Road	W. Ellis, Jr	273,830	Mar. 13	766	207	23	973
Scraper. Road	J. Fleming	279,368	June 12	956	265, 266	23	2294
Scraper. Road	E. Huber	283,607	Aug. 21	1369	383	24	760
Scraper. Road	L. Lamborn	290,246	Dec. 18	1081	302	25	1094
Scraper. Road	G. D. Matcham	284,647	Sept. 11	596	167, 168	24	1011
Scraper. Road	G. D. Matcham	289,012	Nov. 27	1529	422, 423	25	798
Scraper. Road	C. Mendenhall	278,991	June 5	458	126	23	2201
Scraper. Road	A. J. Nellis	277,771	May 15	1543	419	23	1904
Scraper. Road	J. H. Vorhes	283,835	Aug. 28	1653	466	24	823
Scraper. Road	A. Womack	282,141	July 31	2291	629	24	421
Scraper. Road	L. D. York. (Reissue)	10,390	Oct. 2	472	129	25	88
Scraper. Shoe	S. C. Plotner	270,115	Jan. 2	331	97	23	67
Scraper. Sulky	P. Englehart	281,986	July 24	2076	569	24	380
Scraper. Sulky dirt	H. M. D. L. Babcox	277,826	May 15	1600	437	23	1914
Scraper. Wheeled	W. A. Stearns	282,681	Aug. 7	245	72	24	542
Scraper. Wheeled	L. A. Sweatt	276,303	Apr. 24	1836	511	23	1564

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Scraper. Wheeled dirt	J. R. Williams	286,946	Oct. 9	571	157	25	115
Scratch-gage	J. E. Sherman	290,807	Dec. 25	1835	507	25	1231
Screen:							
See Battery-screen. Cockle-screen. Cranberry-screen. Fly-screen. Gas-purifier screen. Gas-purifying screen. Grain-screen. Paper-pulp screen. Thrashing-machine screen. Ventilating-screen. Window-screen. Window and door screen.							
Screen	J. T. Crandle	290,666	Dec. 25	1642	452	25	1197
Screen	O. Harley	280,614	July 3	330	92	24	59
Screen-cleaning device	T. Holman	271,847	Feb. 6	318	87	23	497
Screen-frame	G. N. Joss	277,135	May 8	796	209	23	1768
Screening and sizing machine	J. Sutton	279,286	June 12	832	231	23	2276
Screening device for middlings, flour, &c. Cut-off for	G. Cottrell	277,547	May 15	1278	342, 343	23	1858
Screening-machine	G. Kaffenberger	276,596	May 1	67	19	23	1639
Screw	H. A. Harvey	288,798	Nov. 20	1271	348	25	744
Screw	W. Schilling	272,778	Feb. 20	1505	424	23	719
Screw. Coffin	G. Rogers	277,348	May 8	1039	278	23	1812
Screw-conveyer	T. K. Webster and J. Chivill	276,103	Apr. 17	1586	437	23	1514
Screw-conveyer coupling	J. Chivill	289,751	Dec. 4	477	135	25	970
Screw-conveyer coupling	T. K. Webster and J. Chivill	272,006	Feb. 6	517	139	23	589
Screw-cutting chuck	C. F. Steinmetz	283,679	Aug. 21	1456	410	24	777
Screw-cutting die	A. G. Brust	280,198	June 26	1865	526	23	2465
Screw-cutting die	J. Müller	271,652	Feb. 6	80	22	23	454
Screw-cutting die	E. J. Voegtlin	270,618	Jan. 16	976	282	23	207
Screw-cutting gage	J. Wyke	284,702	Sept. 11	670	188	24	1024
Screw-cutting head	I. Culver	274,281	Mar. 20	1332	367	23	1079
Screw-cutting indicator lathe attachment	J. F. Mershon	281,283	July 17	1176	325	24	221
Screw-cutting machine	A. J. Smart	288,188	Nov. 6	486	135, 136	25	592
Screw-cutting machine	S. C. Smith	284,501	Sept. 4	418	118	24	975
Screw-cutting tool	J. G. Dalle	275,156	Apr. 3	360	99	23	1288
Screw-cutting tool	D. Houghton	272,139	Feb. 13	694	189	23	572
Screw-cutting tool	A. Nacke	279,495	June 12	1106	305	23	2318
Screw. Drive	T. J. Bray	289,333	Nov. 27	1921	534	25	871
Screw-driver	G. S. Allen and R. C. Ellrich	289,056	Nov. 27	1590	440	25	808
Screw-driver	A. Benson	277,202	May 8	870	231	23	1781
Screw-driver	F. J. Colvin	279,917	June 26	1610	452	23	2420
Screw-driver	M. B. Crawford	274,912	Apr. 3	24	7	23	1231
Screw-driver	W. Devereux	287,809	Nov. 6	92	8	25	511
Screw-driver	I. M. Furbish	277,561	May 15	1297	348	23	1860
Screw-driver	M. C. Henley	285,484	Sept. 25	1619	454	24	1204
Screw-driver	C. H. Mallett and Z. T. Furbish	275,235	Apr. 3	452	125, 126	23	1303
Screw-driver	A. McLellan	280,845	July 10	633	178	24	118
Screw-driver	D. Nei	277,599	May 15	1340	361	23	1867
Screw-driver	C. H. Olson	278,261	May 22	2150	590	23	2015
Screw-driver and borer. Convertible	H. V. Smith	274,042	Mar. 13	1014	278	23	1016
Screw-driver attachment	C. W. Drake	290,218	Dec. 18	1049	295	25	1068
Screw-eyes. Making	E. A. Alpress	270,570	Jan. 16	919	265	23	197
Screw-grinding apparatus	H. A. Rowland	272,480	Feb. 20	1130	317	23	652
Screw-hook	J. C. Ernst	276,375	Apr. 24	1938	537	23	1562
Screw-jack	H. Binsse	283,851	Aug. 28	1670	471	24	896
Screw-jack	J. Heritage	279,753	June 19	1410	394	23	2378
Screw. Jack	H. Libby	286,717	Oct. 16	1183	319	25	230
Screw. Jack	B. F. Reeves	273,894	Mar. 13	844	229	23	986
Screw-joint for metal-pipe fittings	W. A. Miles	272,574	Feb. 20	1253	350	23	674
Screw-machine	G. Heyne	289,655	Dec. 4	351	99, 100	25	949
Screw-machine	F. F. Motley	289,125	Nov. 27	1669	463	25	822
Screw machine. Metal	F. and A B. Curtis	280,296	June 26	2064	580, 581	23	2500
Screw machine. Metal	J. W. Lyon	276,438	Apr. 24	2013	558	23	1595
Screw machine. Metal	G. T. Reiss	273,313	Mar. 6	92	27	23	849
Screw machine. Metal	C. M. Spencer	275,431	Apr. 10	748	199	23	1362
Screw machine. Metal	H. H. Taylor	274,153	Mar. 20	1166	321, 322	23	1049
Screw machine. Wood	E. Nugent	282,107	July 31	2232	614, 615	24	412
Screw-nicking machine	C. Grotz	278,132	May 22	1980	543, 544	23	1986
Screw. Pad	D. B. Cooley	276,135	Apr. 17	1629	449	23	1521
Screw-plate	J. M. Carpenter	290,857	Dec. 25	1891	592	25	1241
Screw-press	G. B. Boomer	283,463	Aug. 21	1905	338, 339	24	729
Screw. Set	J. F. Wallensak	278,759	June 5	103	29	23	2141
Screw-swaging machine	S. A. Davis and R. Blake	280,723	July 3	461	132	24	82
Screw-tap	C. R. C. French	270,216	Jan. 9	466	136	23	102
Screw-tap	C. R. C. French	275,815	Apr. 17	1945	343	23	1454
Screw-tap	J. C. Steber	284,510	Sept. 4	431	122	24	977
Screw-threading device	R. Hildwein	289,415	Dec. 4	50	14, 15	25	895
Screw-threading device	J. Miller	274,630	Mar. 27	1797	500	23	1167
Screw-threading machine	W. D. Forbes	270,407	Jan. 9	702	207, 208	23	146
Screw-threading machine	W. D. Forbes	270,408	Jan. 9	703	208	23	147
Screw-threading machine	W. D. Forbes	270,409	Jan. 9	704	208	23	147
Screw-threads. Device for upsetting and restoring	M. Kepler	289,271	Nov. 27	1837	507	25	854
Screw-threads. Die for cutting	J. E. Woodbridge	269,981	Jan. 2	188	54	23	39
Screw-threads. Machine for swaging	S. A. Davis and R. Blake	279,353	June 12	928	259, 260	23	2290
Screw-threads. Stock for cutting	O. J. Kosiol	289,275	Nov. 27	1842	508	25	855

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Screw. Wood-	I. F. Brown	281,831	July 24	1887	515	24	348
Screw. Wood-	I. Cole	288,923	Nov. 20	1418	391	25	771
Screws. Machine for making wood-	W. Rumble	283,490	Aug. 21	1150	325, 326	24	720
Screws. Machine for rolling the threads of wood-	H. A. Harvey	284,633	Sept. 11	579	163	24	1008
Screws. Machine for threading sheet-metal	C. Hope	270,314	Jan. 9	574	169	23	122
Screws. Machine for threading the points of lag-	H. E. Coy	276,671	May 1	163	42	23	1653
Scrubbing floors. Machine for	P. Gallagher	271,830	Feb. 6	296	81	23	493
Scrubbing machine. Floor-	J. C. Garrott	282,713	Aug. 7	297	84	24	551
Scythe-snath fastening	F. S. Kretsinger and E. Stewart	280,486	July 3	189	50	24	35
Scythe-snath fastening	F. M. Swope	283,932	Aug. 28	1768	500	24	845
Scythe-snath nib-iron	A. Lane	283,406	Aug. 21	1134	321	24	717
Seal. Car-	F. C. Gillmore	281,863	July 24	1928	527	24	355
Seal. Car-	W. Scharnweber	290,086	June 26	1821	513	23	2457
Seal. Car-	J. S. Wertz	286,514	Oct. 9	916	247	25	176
Seal-holding attachment for hasp-locks	A. Jones	288,641	Nov. 20	1072	295	25	709
Seal in traps of water-closets, urinals, wash-basins, sinks, &c. Preserving the	J. P. Hyde	288,573	Nov. 13	985	271, 272	25	688
Seal-joint trap for bath-tubs, &c. Mercury-	A. Edwards and S. J. Van Stavoren	270,034	Jan. 2	244	71	23	50
Seal-lock	D. A. Bolt	286,768	Oct. 16	1243	336, 337	25	241
Seal-lock	E. J. Brooks	285,384	Sept. 25	1502	493	24	1183
Seal-lock	J. W. Burd, Jr	289,973	Dec. 11	746	211	25	1025
Seal-lock	R. J. Cannon and J. M. Ward	276,666	May 1	155	40	23	1652
Seal-lock	C. Clarke	271,684	Feb. 6	190	33	23	460
Seal-lock	A. O. Dayton	275,026	Apr. 3	193	51	23	1258
Seal-lock	H. W. Earl	278,227	May 22	2100	578	23	2007
Seal-lock	J. Forbes and H. M. Williston	273,267	Mar. 6	28	9	23	839
Seal-lock	R. Frew	274,929	Apr. 3	57	15	23	1235
Seal-lock	S. A. Hosford	269,935	Jan. 2	131	39	23	27
Seal-lock	J. F. Ingham	289,417	Dec. 4	53	15, 16	25	896
Seal-lock	L. M. Junkin	275,496	Apr. 10	828	225	23	1376
Seal-lock	V. A. Kreppe	287,299	Oct. 23	1927	527	25	368
Seal-lock	J. Menzies	280,649	July 3	373	104	24	66
Seal-lock	S. E. Nutting	278,450	May 29	2413	658	23	2070
Seal-lock	J. C. Rae	272,769	Feb. 20	1493	420	23	716
Seal-lock	W. W. Shallus	292,380	July 31	2589	711	24	472
Seal-lock	R. O. and S. Walker	283,836	Aug. 28	1654	466	24	893
Seal-lock	A. Warren	272,360	Feb. 13	959	267	23	618
Seal-lock	A. Warren	284,519	Sept. 4	441	125	24	979
Seal-lock	W. H. Williams	292,019	July 24	2116	579	24	386
Seal-lock for car-doors	E. J. Brooks	285,219	Sept. 18	1303	367	24	1149
Seal-lock for car-doors	G. J. Hartman	284,632	Sept. 11	578	163	24	1008
Seal-lock for car-doors	V. A. Kreppe	290,690	Dec. 25	1674	461	25	1202
Seal. Metallic	E. J. Brooks	278,866	June 5	265	76	23	2168
Seal. Metallic	E. J. Brooks	286,775	Oct. 16	1253	339	25	242
Seal. Metallic	P. A. Curtis	271,224	Jan. 30	1725	500	23	352
Seal-press	R. H. Smith	286,496	Oct. 9	890	240	25	172
Seal-trap for lavatories, bath-tubs, &c. Mercury	A. Edwards	287,369	Oct. 23	2010	547	25	383
Seals. Instrument for forming metal	T. H. Malone and G. A. Whiting	276,058	Apr. 17	1530	421	23	1504
Seals to cars. Attaching	T. H. Malone and G. A. Whiting	282,205	July 31	2374	653	24	434
Seals. Tool for compressing	W. Johnson	278,434	May 29	2392	652, 653	23	2067
Sealing device for jars, &c	A. Luger	280,938	July 10	750	208	24	138
Sealing envelopes	H. A. Buttner	281,448	July 17	1391	382	24	257
Sealing fruit and other cans	J. Waterous	288,526	Nov. 13	932	254	25	677
Sealing fruit-cans, &c. Composition of matter to be used for	J. Waterous	288,525	Nov. 13	932	.....	25	677
Sealing packages and railway-cars. Combination implement for	T. E. Miller	270,092	Jan. 2	304	90	23	62
Seam-finishing machine	W. Y. Ober	285,061	Sept. 18	1116	311, 312	24	1109
Seaming irregular-shaped cans. Machine for	W. H. Atkinson	279,853	June 19	1526	427	23	2398
Seaming-machine	F. A. Walsh	271,668	Feb. 6	98	27	23	457
Seaming-machine	F. A. Walsh	277,962	May 22	1764	481, 482	23	1948
Seaming machine. Can-	T. L. Smith and W. S. Doig	273,774	Mar. 13	698	188	23	961
Seaming machine. Double-	P. J. and F. J. Illig	282,595	Aug. 7	63	18	24	511
Seaming machine. Sheet-metal-	C. Wright	284,584	Sept. 4	519	145, 146	24	992
Seaming-press	E. J. Dolan	286,283	Oct. 9	639	171	25	196
Seaming sheet-metal cans. Double-	F. A. Walsh	272,500	Feb. 20	1156	324	23	657
Seaming sheet-metal cans. Machine for	E. Norton and J. G. Hodgson	272,972	Feb. 27	1763	493, 494	23	770
Seams. Machine for cutting and ripping	F. Basch	271,019	Jan. 23	1477	426	23	303
Seams of sheet-metal cans. Apparatus for applying flux to the	G. H. Perkins	270,109	Jan. 2	332	95	23	65
Seat: *See* Bicycle-seat. Bracket-seat. Car-seat. Carriage-seat. Carriage jump-seat. Chair-seat. Counter-seat. Folding seat. Folding school-seat. Infant's seat. Life-saving seat. Row-boat seat. Shooting-seat. Spring-seat. Vehicle-seat. Vehicle jump-seat. Vehicle shifting seat. Vehicle spring-seat. Wagon-seat. Window-washing seat. Wire seat.							
Seat	H. S. Hale	271,062	Jan. 23	1595	441	23	311
Seat	H. S. Hale	280,740	July 3	486	137, 138	24	86
Seat-back. Detachable and adjustable	L. Postawka	274,375	Mar. 20	1455	399	23	1100
Seat-lock	F. P. Monfort	274,809	Mar. 27	2006	558	23	1203

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Secondary batteries. Apparatus for charging and discharging	E. Weston	285,714	Sept. 25	1901	540	24	1256
Secondary batteries. Apparatus for charging and discharging	E. Weston and L. E. Curtis	289,328	Nov. 27	1914	532	25	889
Secondary battery. Planté's	S. L. Fox	285,807	Oct. 2	30	10	25	7
Secondary battery	E. Boettcher	277,445	May 15	1157	311	23	1838
Secondary battery	C. F. Brush	274,082	Mar. 13	1071	295	23	1026
Secondary battery	C. F. Brush	275,985	Apr. 17	1443	398	23	1491
Secondary battery	C. F. Brush	275,986	Apr. 17	1444	398	23	1491
Secondary battery	C. F. Brush	276,155	Apr. 24	1655	457	23	1534
Secondary battery	T. A. Edison	273,492	Mar. 6	321	87	23	889
Secondary battery	T. A. Edison	274,292	Mar. 20	1349	371	23	1061
Secondary battery	A. Haid	271,628	Feb. 6	58	16	23	450
Secondary battery	N. S. Keith	273,855	Mar. 13	802	217	23	979
Secondary battery	J. A. Maloney	271,880	Feb. 6	353	98	23	502
Secondary battery	A. J. Martin	274,802	Mar. 27	1998	555	23	1902
Secondary battery	C. P. Nézeraux	271,732	Feb. 6	173	47	23	470
Secondary battery	J. Pitkin	274,373	Mar. 20	1453	398	23	1100
Secondary battery	E. T. Starr	282,396	July 31	2608	716	24	476
Secondary battery	E. T. Starr	283,295	Aug. 14	986	275	24	684
Secondary battery	A. Tribe	284,343	Sept. 4	224-	63	24	942
Secondary battery	C. J. Van Depoele	285,529	Sept. 25	1674	.....	24	1215
Secondary battery	E. R. Whitney	277,394	May 8	1087	292	23	1890
Secondary-battery charging. Current-manipulator for	C. F. Brush	281,175	July 10	1027	287	24	188
Secondary-battery element	C. F. Brush	274,905	Apr. 3	17	4	23	1229
Secondary-battery element	C. F. Brush	276,348	Apr. 24	1905	529	23	1576
Secondary-battery indicator	E. Weston	282,428	July 31	2655	728	24	484
Secondary battery or electric accumulator	E. T. Starr	281,156	July 10	1004	281	24	184
Secondary-battery plate	C. H. Koyl	276,974	May 1	574	151	23	1724
Secondary electric battery	E. T. Starr	279,839	June 19	1507	421, 422	23	2395
Secondary electric battery	C. J. Van Depoele	282,414	July 31	2633	.....	24	480
Secondary or storage battery	E. T. and E. E. Starr	276,300	Apr. 24	1831	511	23	1564
Secondary or storage battery	E. T. and E. E. Starr	276,301	Apr. 24	1834	511	23	1564
Secondary or storage battery	E. T. and E. E. Starr	284,577	Sept. 4	510	143	24	990
Secretary	J. H. Elward	275,616	Apr. 10	985	266	23	1402
Secretary	J. P. Pardue	279,004	June 5	475	130	23	2204
Sectional boat	D. W. Case	274,171	Mar. 20	1193	328	23	1054
Sectional boiler	D. Renshaw	274,825	Mar. 27	2024	563	23	1207
Sectional safety-boiler	E. J. Moore	284,468	Sept. 4	374	104	24	967
Sectional safety-boiler	E. J. Moore	289,850	Dec. 11	602	167, 168	25	999
Sediments or precipitates. Apparatus for depositing and collecting	G. Bacher	277,191	May 8	858	228	23	1779
Seed and fertilizer dropper. Combined	G. E. S. Phillips	284,892	Sept. 11	893	252	24	1063
Seed-bar tooth	G. D. Rowell	287,171	Oct. 23	1761	483	25	339
Seed-cleaner	J. Grube	271,839	Feb. 6	310	84	23	495
Seed-corn hanger	C. G. Reynolds	285,159	Sept. 18	1238	348	24	1130
Seed-drill	J. M. Allen	281,602	July 17	1578	431	24	288
Seed-drill	J. C. Center	284,378	Sept. 4	264	74	24	949
Seed-drill	E. C. Ellwood	289,520	Dec. 4	185	52	25	919
Seed-drill and broadcast scatterer. Combined	W. Coulthard and J. Larsen	285,234	Sept. 18	1321	373	24	1146
Seed-drill and fertilizer-distributer	R. Platman	271,736	Feb. 6	179	48, 49	23	471
Seed drill and fertilizer-distributer. Combined cotton-	W. W. Harris	289,771	Dec. 4	492	137	25	973
Seed-drill and rolling cutter. Combined	T. A. Frakes and M. G. Reiners	272,228	Feb. 13	798	228	23	590
Seed-drill. Garden	A. H. Sherwood	277,620	May 15	1367	368	23	1878
Seed-dropper	S. Dement, S. D. and J. A. Palmer	288,317	Nov. 13	655	181	25	629
Seed huller and separator. Cotton-	J. S. Zerbe and A. J. White	289,365	Nov. 27	1960	546	25	877
Seed huller. Cotton-	P. McDermott	281,902	July 24	1978	542	24	363
Seed linter. Cotton-	F. S. Strong and F. C. Mann	290,279	Dec. 18	1125	316	25	1101
Seed. Machine for cleaning flax-	L. Morgan	282,211	July 31	2380	655	24	435
Seed mills. Feed mechanism for cotton-	C. J. Hooper	288,809	Nov. 20	1283	352	25	746
Seed. Process of and apparatus for treating cotton-	T. Taylor	276,305	Apr. 24	1840	512	23	1565
Seed separator. Cockle-	G. Adams and M. M. Jenkins	271,392	Jan. 30	1941	562	23	390
Seed stripper. Clover-	H. H. Spears	278,286	May 22	2180	600	23	2090
Seed. Treating cotton-	T. Taylor	289,041	Nov. 27	1571	433, 434	25	805
Seed. Treatment of cotton-	J. F. O'Shaughnessy	286,553	Oct. 9	965	.....	25	186
Seeds from cucumbers, &c. Process of and apparatus for separating	W. H. Jennings	283,787	Aug. 28	1602	452	24	815
Seeder	R. S. Carr	274,460	Mar. 27	1573	431	23	1128
Seeder	F. Koht	274,343	Mar. 20	1417	388	23	1093
Seeder and cultivator	J. E. Henris	272,046	Feb. 13	574	155	23	551
Seeder and fertilizer-distributer	E. D. Mayers	269,869	Jan. 2	56	17	23	13
Seeder and fertilizer-distributer. Combined	B. Kuhns. (Reissue)	10,323	May 8	1143	308	23	1899
Seeder and harrow. Combined	D. Clinton	286,263	Oct. 9	592	162	25	118
Seeder. Check-row	H. Farmer	274,580	Mar. 27	1741	483	23	1156
Seeder. Hand broadcast-	C. P. Yoder and C. C. Carmien	277,861	May 15	1645	448	23	1922
Seeder, harrow, and roller. Combined	A. P. Grover	286,427	Oct. 9	814	221	25	158
Seeding and cultivating machine. Combined	W. Dickinson	282,614	Aug. 7	166	50	24	530
Seeding device	C. F. Hauss, Jr	281,269	July 17	1164	322	24	219
Seeding device	C. F. Hauss, Jr	281,270	July 17	1165	322	24	219
Seeding-machine	G. W. Ballard	281,331	July 17	1242	344	24	232
Seeding-machine	B. C. Bradley	270,627	Jan. 16	984	284, 285	23	209
Seeding-machine	J. M. Lindsey	287,035	Oct. 23	1591	438	25	307
Seeding-machine	D. E. McSherry and A. G. Myers	280,387	July 3	60	16	24	13
Seeding-machine	E. D. Mead	289,296	Nov. 27	1871	516	25	861
Seeding-machine	A. Mekenney	280,059	June 26	1787	501	23	2450
Seeding-machine	A. Miller	288,471	Nov. 13	869	235	25	667
Seeding-machine	T. T. Miller	273,755	Mar. 13	666	178	23	958
Seeding-machine	U. M. Powell	273,146	Feb. 27	1980	557	23	809

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Seeding-machine	J. H. Purdy and C. T. Welch	288,661	Nov. 20	1100	302	25	714
Seeding-machine	S. G. Randall	284,060	Aug. 28	1942	543	24	874
Seeding-machine	J. L. Riter	274,518	Mar. 27	1668	463	23	1143
Seeding-machine	J. R. Rude and H. G. Swope	285,845	Oct. 2	78	23, 24	25	16
Seeding-machine cleaner attachment	S. C. Mendenhall	280 210	June 26	1954	550	23	9481
Seeding-machine, cultivator, and harrow	C. A. Geiger	270,414	Jan. 9	709	210	23	148
Seeding-machine fertilizer attachment	J. P. Fulgham	271,622	Feb. 6	47	12, 13	23	449
Seeding-machine. Grain	J. M. Westcott	271,961	Feb. 6	453	124	23	520
Seeding-machines. Boot and adjustable point for	J. F. Keller	269,944	Jan. 2	147	43	23	30
Seine purse-block	G. Merchant, Jr	288,650	Nov. 20	1088	298	25	712
Self-bailing boat	F. Vaughan	270,519	Jan. 9	851	248	23	176
Self-closing gate	T. G. Goff	284,636	Sept. 11	833	233	24	1052
Self-feeding and smoke-consuming furnace	L. W. Sutcliffe	274,990	Apr. 3	135	38	23	1249
Semaphore-signals. Apparatus for operating	W. W. McLellan	285,497	Sept. 25	1635	460	24	1207
Separating and collecting the component substances in animal and vegetable matter.	J. A. Mathieu	276,256	Apr. 24	1776	494	23	1555
Separating bodies of different specific gravities. Apparatus for	J. W. Decastro and T. H. Müller	273,037	Feb. 27	1844	516	23	784
Separating bodies of different specific gravities. Apparatus for	J. W. Decastro and T. H. Müller	273,038	Feb. 27	1845	516, 517	23	785
Separating bodies of different specific gravities. Apparatus for	T. H. Müller and J. W. Decastro	273,127	Feb. 27	1952	547, 548	23	803
Separating bodies of different specific gravities. Apparatus for	T. H. Müller and J. W. Decastro	273,129	Feb. 27	1956	549, 550	23	804
Separating solid and liquid matters. Centrifugal machine for	M. C. A. Ruffin	289,565	Dec. 4	244	69	25	930
Separating solid matter from liquids. Apparatus for.	O. L. F. Browne	283,373	Aug. 21	1099	309	24	710
Separator: *See* Coffee-separator. Cotton-separator. Centrifugal separator. Gold-separator. Grain-separator. Grain and seed separator. Magnetic separator. Match-splint separator. Nut-separator. Ore-separator. Ore and mineral separator. Pea-separator. Seed-separator. Starch-separator. Steam-engine separator. Thrashing-machine separator. Thrashing-machine grain-separator.							
Separator	W. O. Gunckel	282,719	Aug. 7	305	86	24	553
Separator and purifier for meal, &c	G. W. Wilson	281,655	July 17	1648	449	24	299
Service-box. Cast-lead	E. W. Meyer	281,712	July 24	1728	469	24	319
Service-pipe box	J. T. Cahill and L. Mangold	279,703	June 19	1356	378	23	2369
Settee and lounge. Combined	E. S. Amrock	271,762	Feb. 6	213	59	23	477
Settee. Cot	S. W. Shaw	284,660	Sept. 11	641	181	24	1018
Settee, cot, and tent. Convertible	E. S. Amrock	287,078	Oct. 23	1645	452	25	317
Settee. Invalid	J. Rodgers	283,515	Aug. 21	1266	354	24	740
Setting-instrument	G. W. Prentice	275,702	Apr. 10	1086	296	23	1490
Sewage, &c. Apparatus for filtering and purifying	B. F. Woods	272,997	Feb. 27	1792	501	23	775
Sewed. Device for holding material to be	E. J. Moore	287,044	Oct. 23	1601	440	25	309
Sewer	R. T. Bryant and D. Tostevin	273,945	Mar. 13	907	248	23	997
Sewer and water trap	E. Lawson	274,204	Mar. 20	1227	337	23	1061
Sewer cap and joint	A. Monteath	278,723	June 5	62	19	23	2135
Sewer-flushing apparatus	W. H. Vibbard	272,992	Feb. 27	1785	500	23	773
Sewer-flushing device	E. Z. Collings and C. F. Pike	275,803	Apr. 17	1232	337	23	1452
Sewer-gas and destroying germs. Apparatus for eradicating	F. H. Hubbard	274,332	Mar. 20	1402	385	23	1000
Sewer-gas in water-closets. Apparatus for absorbing.	C. F. Pike	271 359	Jan. 30	1903	550	23	383
Sewer-gas trap	A. Blatchly	276,217	Apr. 24	1729	478, 479	23	1547
Sewer-gate	S. Johnson	289,107	Nov. 27	1648	457	25	818
Sewer-gate	S. Johnson	289,108	Nov. 27	1649	458	25	819
Sewer-inlet	E. Z. Collings and C. F. Pike	274,465	Mar. 27	1577	433	23	1129
Sewer-inlet	E. Z. Collings and C. F. Pike	274,466	Mar. 27	1578	433	23	1129
Sewer-inlet	E. Z. Collings and C. F. Pike	275,802	Apr. 17	1231	337	23	1452
Sewer or stench trap	L. D. Craig	270,876	Jan. 16	1291	373	23	267
Sewer-trap	J. Bodine	287,413	Oct. 30	2068	562	25	401
Sewer-trap	W. W. Lemmon	280,193	June 26	1931	543	23	9477
Sewer-trap	L. A. Pellier	290,603	Dec. 18	1564	430	25	1177
Sewer-trap	G. A. Reich	278,045	May 22	1869	511	23	1967
Sewer-trap	H. C. Stewart	274,149	Mar. 20	1162	320	23	1048
Sewers. Backwater-gate for	J. S. Tibbals	285,180	Sept. 18	1963	355	24	1134
Sewers. Cleaning	J. T. Dougine	287,811	Nov. 6	25	8, 9	25	512
Sewering and draining towns	G. E. Waring, Jr	278,839	June 5	296	66, 67	23	2162
Sewing and dressing case	J. Rothschild	272,981	Feb. 27	1775	497	23	771
Sewing and trimming machine	S. Borton and C. H. Willcox	275,981	Apr. 17	1435	396, 397	23	1489
Sewing bands to knitted work. Machine for	S. L. Otis	279,003	June 5	472	130	23	2204
Sewing-horse. Saddler's	J. T. Ward	284,097	Aug. 28	1992	555	24	883
Sewing-machine	H. P. Bailey and A. A. Hurd	286,988	Oct. 23	1527	421	25	295
Sewing-machine	C. H. Bayley	275,117	Apr. 3	311	87	23	1279
Sewing-machine	J. Bond, Jr	288,765	Nov. 20	1234	338	25	736
Sewing-machine	J. Boppel	281,008	July 10	824	229, 230	24	153
Sewing-machine	G. W. Burgess	277,217	May 8	885	235	23	1783
Sewing-machine	J. F. Cannon and W. C. Von Buchwald.	288,008	Nov. 6	261	80	25	555
Sewing-machine	W. S. Carliale	270,540	Jan. 9	876	254, 255	23	181
Sewing-machine	C. Chabot	280,577	July 3	287	79, 80	24	53
Sewing-machine	H. Charmbury	276,560	May 1	17	5	23	1630
Sewing-machine	H. M. Darling and A. Kitzmiller	278,687	June 5	14	4	23	2127
Sewing-machine	J. A. Döring	284,190	Sept. 4	38	10, 11	24	911

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Sewing-machine	W. C. French	276,798	May 1	344	92	23	1686
Sewing-machine	M. Gandy	282,625	Aug. 7	189	53	24	532
Sewing-machine	G. D. Garvie	271,978	Feb. 6	484	131	23	594
Sewing-machine	J. R. Hebert	290,424	Dec. 18	1326	367	25	1135
Sewing-machine	O. J. Holden and L. Griswold	272,050	Feb. 13	579	156, 157	23	552
Sewing-machine	T. S. Huntington	276,537	Apr. 24	2139	595	23	1616
Sewing-machine	C. T. Jones	285,136	Sept. 18	1211	341	24	1125
Sewing-machine	J. Keith	273,854	Mar. 13	796	216, 217	23	979
Sewing-machine	E. Kohler	270,814	Jan. 16	1222	353	23	254
Sewing-machine	A. Lambert	277,747	May 15	1510	409, 410	23	1898
Sewing-machine	R. Leavitt	285,417	Sept. 25	1542	435, 436	24	1191
Sewing-machine	S. Y. Love	285,359	Sept. 18	1465	412	24	1171
Sewing-machine	R. W. Lundy	276,056	Apr. 17	1598	490	23	1504
Sewing-machine	T. A. Macaulay	272,844	Feb. 20	1604	449	23	736
Sewing-machine	T. A. Macaulay	276,842	May 1	396	105	23	1695
Sewing-machine	T. A. Macaulay. (Reissue)	10,317	Apr. 24	2150	598	23	1618
Sewing-machine	L. C. McAllister	278,809	June 5	176	51, 52	23	2153
Sewing-machine	H. McDonald	270,192	Jan. 2	428	124	23	87
Sewing-machine	J. H. Merrill	273,754	Mar. 13	664	178	23	956
Sewing-machine	L. B. Miller and P. Diehl	274,359	Mar. 20	1433	393	23	1096
Sewing-machine	L. B. Miller and P. Diehl	275,402	Apr. 10	708	189	23	1356
Sewing-machine	D. Mills	272,740	Feb. 20	1455	408, 409	23	710
Sewing-machine	R. S. Norton	270,244	Jan. 9	495	146	23	107
Sewing-machine	C. H. Palmer	271,908	Feb. 6	391	107	23	509
Sewing-machine	G. M. Palmer	270,104	Jan. 2	318	94	23	65
Sewing-machine	M. H. Pearson	278,592	May 29	2572	702, 703, 704	23	2098
Sewing-machine	M. H. Pearson	279,500	June 12	1112	307	23	2319
Sewing-machine	J. W. Post	281,296	July 17	1192	330	24	294
Sewing-machine	J. W. Post	287,576	Oct. 30	2277	617, 618	25	443
Sewing-machine	J. B. Price	270,984	Jan. 23	1437	414	23	296
Sewing-machine	D. H. Rogan	284,065	Aug. 28	1951	544, 545	24	876
Sewing-machine	S. R. Sargent	284,071	Aug. 28	1960	546	24	877
Sewing-machine	S. R. Sargent	287,867	Nov. 6	93	28	25	524
Sewing-machine	S. R. Sargent	287,868	Nov. 6	95	29	25	524
Sewing-machine	S. R. Sargent	287,869	Nov. 6	97	29	25	525
Sewing-machine	J. P. Scott	283,669	Aug. 21	1439	402, 403, 404	24	774
Sewing-machine	J. B. Secor	282,674	Aug. 7	237	69	24	541
Sewing-machine	J. Sigwalt, Jr	275,427	Apr. 10	738	196, 197	23	1361
Sewing-machine	M. P. Smith	280,409	July 3	85	23	24	18
Sewing-machine	E. T. Thomas	276,503	Apr. 24	2093	581, 582	23	1609
Sewing-machine	E. T. Thomas	277,084	May 8	728	190	23	1756
Sewing-machine	E. T. Thomas	281,649	July 17	1634	446	24	298
Sewing-machine	E. T. Thomas	287,339	Oct. 23	1972	538	25	377
Sewing-machine	E. T. Thomas. (Reissue)	10,269	Jan. 9	915	263, 264	23	188
Sewing-machine	C. E. Tibbles	274,056	Mar. 13	1031	222, 283, 284	23	1019
Sewing-machine	C. E. Tibbles	274,057	Mar. 13	1035	284, 285	23	1019
Sewing-machine	J. Tripp	282,406	July 31	2620	720	24	478
Sewing-machine	J. Tripp	282,407	July 31	2621	720	24	478
Sewing-machine	J. Tripp	282,408	July 31	2623	720	24	478
Sewing-machine	J. Tripp	282,409	July 31	2624	721	24	479
Sewing-machine	T. D. Tully	280,773	July 3	543	151	24	96
Sewing-machine	O. R. Van Vechten	272,104	Feb. 13	653	178	23	565
Sewing-machine	C. Vernay and F. Roux	279,464	June 12	1067	295, 296	23	2313
Sewing-machine	C. Von Rein	274,381	Mar. 20	1460	400	23	1101
Sewing-machine	W. Wendell	286,662	Oct. 16	1108	298	25	217
Sewing-machine	J. J. Wheat	285,536	Sept. 25	1681	473	24	1216
Sewing-machine	J. F. Winchell	290,162	Dec. 11	970	274	25	1066
Sewing-machine	R. Whitehill	279,621	June 19	1255	348	23	2351
Sewing-machine	J. H. Whitney	275,966	Apr. 17	1418	391	23	1486
Sewing-machine	C. H. Willcox and C. Carleton	276,112	Apr. 17	1600	442	23	1516
Sewing-machine	C. A. Wood	283,449	Aug. 21	1189	334	24	727
Sewing-machine	C. Wuterich and G. V. Sheffield	276,653	May 1	133	35, 36	23	1650
Sewing-machine attachment	O. M. Bonney and N. D. Lamoreux	286,994	Oct. 23	1536	423	25	296
Sewing-machine attachment	P. A. Jones	275,048	Apr. 3	217	59	23	1263
Sewing-machine attachment	W. A. Macleod	283,799	Aug. 28	1613	454	24	817
Sewing-machine attachment	E. Massicot	273,571	Mar. 6	432	116	23	906
Sewing-machine attachment	G. D. McCreedy	287,948	Nov. 6	201	58	25	542
Sewing-machine attachment	J. S. Sackett	284,069	Aug. 28	1958	546	24	877
Sewing machine attachment. Boot and shoe	J. H. Cutten	275,365	Apr. 10	654	175	23	1346
Sewing-machine-attachment clamp	E. F. Angell and A. Spear	279,516	June 19	1138	315	23	2331
Sewing-machine attachment for sewing on buttons	G. M. Morris	289,686	Dec. 4	389	111, 112	25	955
Sewing-machine attachment for channeling leather	E. Ward	275,794	Apr. 10	1206	330	23	1440
Sewing-machine-attachment holder	E. T. Thomas	273,635	Mar. 6	506	136	23	921
Sewing-machine-attachment holder	E. T. Thomas	277,083	May 8	727	190	23	1755
Sewing-machine attachments. Clamp for	G. A. Brady	277,108	May 8	756	199	23	1761

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Sewing-machine back-stop	C. A. Van Allen	287,484	Oct. 30	2156	586	25	419
Sewing machine. Bag-	H. P. Garland	283,095	Aug. 14	739	207	24	639
Sewing machine. Bag-	C. W. Weiss	290,952	Dec. 25	2011	554, 555	25	1961
Sewing-machine binder	G. M. Morris	274,634	Mar. 27	1801	501	23	1167
Sewing-machine binder and folder combined	J. S. Sackett	290,479	Dec. 18	1397	386	25	1148
Sewing-machine binder and hemmer attachment	W. R. Parsons	290,797	Dec. 25	1819	502	25	1229
Sewing-machine binder attachment	E. H. Craige and F. Henry	275,889	Apr. 17	1335	367	23	1471
Sewing-machine binding attachment	W. Pretty, Jr	273,602	Mar. 6	467	126	23	914
Sewing-machine bobbin-winder	C. A. Dearborn	274,088	Mar. 13	1079	297	23	1027
Sewing-machine bobbin-winder	W. H. Newton	270,831	Jan. 16	1241	358	23	257
Sewing-machine bobbin-winder	C. E. Russell	280,961	July 10	774	215	24	142
Sewing-machine bobbin-winder	C. B. Thompson	282,412	July 31	2629	722	24	479
Sewing machine. Book-	D. M. Smyth	274,966	Apr. 3	130	36	23	1248
Sewing machine. Boot and shoe	C. Brown	272,409	Feb. 20	1041	291, 292	23	637
Sewing-machine braid-guide	A. Snow	284,080	Aug. 28	1971	549	24	879
Sewing-machine braiding attachment	E. H. Alexander	281,225	July 17	1105	305	24	209
Sewing-machine braiding attachment	W. R. Parsons	290,465	Dec. 18	1377	381	25	1145
Sewing-machine. Button-hole	C. M. Banks	287,217	Oct. 23	1823	499, 500	25	349
Sewing-machine. Button-hole	C. Beuttel and P. P. Brauch	271,405	Jan. 30	1960	566	23	394
Sewing-machine. Button-hole	F. W. Cross	279,349	June 12	923	257, 258	23	2290
Sewing-machine. Button-hole	P. Diehl	272,196	Feb. 13	680	185, 186	23	569
Sewing-machine. Button-hole	J. W. Furbush	276,387	Apr. 24	1953	541	23	1585
Sewing-machine. Button-hole	D. W. G. Humphrey	273,087	Feb. 27	1896	532, 533	23	793
Sewing-machine. Button-hole	J. W. Lufkin	277,755	May 15	1521	412, 413	23	1900
Sewing-machine. Button-hole	W. Raeuchle	277,928	May 22	1796	471	23	1942
Sewing-machine. Button-hole	F. E. Schmidt	272,160	Feb. 13	715	196, 197	23	575
Sewing-machine. Button-hole	F. E. Schmidt	273,318	Mar. 6	97	29	23	850
Sewing-machine. Button-hole	J. J. Sullivan and H. D. Baker	271,666	Feb. 6	95	26	23	457
Sewing-machine. Button-hole	J. J. Sullivan and H. D. Baker	279,890	June 19	1570	440	23	2407
Sewing-machine. Button-hole	T. Welch and G. Corbion, Jr	272,108	Feb. 13	658	179, 180	23	565
Sewing-machine button-hole attachment	C. M. Banks	286,989	Oct. 23	1530	421, 422	25	295
Sewing-machine button-hole attachment	J. W. Blodgett	279,390	June 12	877	244, 245	23	2282
Sewing-machine button-hole attachment	J. W. Cameron	272,527	Feb. 20	1186	331, 332	23	662
Sewing-machine button-hole attachment	P. Diehl	270,290	Jan. 9	548	162	23	117
Sewing-machine button-hole attachment	J. P. Hallenbeck	273,727	Mar. 13	620	167, 168	23	948
Sewing-machine button-hole attachment	J. P. Hallenbeck	275,200	Apr. 3	409	112, 113	23	1296
Sewing-machine button-hole attachment	J. P. Hallenbeck	277,128	May 8	784	206	23	1766
Sewing-machine button-hole attachment	H. C. Hartley and J. L. Rodgers	279,563	June 19	1194	330	23	2340
Sewing-machine button-hole attachment	W. Randel and R. Sims	276,709	May 1	296	57, 58	23	1663
Sewing-machine button-sewing attachment	E. T. Thomas	281,650	July 17	1635	447	24	298
Sewing machine. Carpet-	B. Refsum	271,515	Jan. 30	2106	606	23	420
Sewing-machine case or cabinet	G. A. Lovell	279,875	June 19	1554	435	23	2404
Sewing-machine clamp. Button-hole	F. Egge	271,323	Jan. 30	1850	537	23	373
Sewing-machine cover and chair. Combined	W. R. Flynn	278,117	May 22	1954	535	23	1982
Sewing-machine crank	L. C. Mason	283,001	Aug. 14	630	178	24	619
Sewing-machine cutting mechanism. Button-hole	D. W. G. Humphrey	273,088	Feb. 27	1902	533, 534	23	794
Sewing-machine driving attachment	W. R. Somers	273,627	Mar. 6	496	133	23	919
Sewing-machine driving mechanism	J. C. Landes	288,643	Nov. 20	1074	295	25	709
Sewing-machine embroidering attachment	G. W. Baker	274,548	Mar. 27	1701	472	23	1149
Sewing-machine eyelet-hole attachment	C. E. Randall	270,696	Jan. 16	1081	310	23	227
Sewing-machine fan attachment	L. J. Church	278,683	June 5	9	3	23	2126
Sewing-machine fan attachment	J. M. Gleason	285,479	Sept. 25	1614	453	24	1203
Sewing-machine fanning attachment	J. H. Tabony	271,542	Jan. 30	2135	614	23	494
Sewing-machine feed	A. Lobdell	276,253	Apr. 24	1771	493	23	1554
Sewing-machine feed mechanism	M. J. Ferren	270,185	Jan. 2	419	122	23	85
Sewing-machine feeding mechanism	G. R. Peare	272,761	Feb. 20	1482	417, 418	23	714
Sewing-machine fly-wheels. Clutch for	J. D. Hughes	270,672	Jan. 16	1049	300	23	221
Sewing-machine folding and binding attachment	W. Pretty, Jr	273,890	Mar. 13	840	228	23	986
Sewing-machine for sewing carpet, &c	G. Gowing	287,276	Oct. 23	1892	518, 519	25	362
Sewing-machine gage	R. S. Norton	280,758	July 3	516	145	24	91
Sewing machine. Glove-	W. Lüdeke	275,506	Apr. 10	839	227, 228	23	1377
Sewing machine. Glove-	B. Schmitt	270,343	Jan. 9	615	180, 181	23	130
Sewing-machine. Glove and fur	W. Lüdeke	288,949	Nov. 20	1451	400	25	777
Sewing-machine guide	J. H. Bea, Jr	272,847	Feb. 27	1615	451, 452	23	745
Sewing-machine guide	W. P. Miller	271,728	Feb. 6	170	46	23	470
Sewing-machine guide	G. Patek	271,354	Jan. 30	1898	549	23	382
Sewing-machine guide	N. B. Williams	272,503	Feb. 20	1160	325	23	657
Sewing machine. Hat-	W. F. Beardslee	279,523	June 19	1146	317, 318	23	2332
Sewing machine. Hat-	V. Mocsalein	275,067	Apr. 3	946	68	23	1968
Sewing-machine. Heavy-fabric	J. H. Morley	270,971	Jan. 23	1490	409, 410, 411	23	293
Sewing-machine hemstitching attachment	W. E. Donnelly	288,036	Nov. 6	311	88	25	561
Sewing-machine jack	H. P. Stimson	272,390	Feb. 13	1007	282	23	696

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drs.	Vol.	Page.
Sewing-machine motor	J. A. Arthur	283,742	Aug. 28	1540	436	24	884
Sewing-machine motor	J. M. Cayce	288,620	Nov. 20	1047	288 289	25	765
Sewing-machine motor	D. L. Miller	270,456	Jan. 9	768	225	23	159
Sewing-machine needle	H. Berwick	278,857	June 5	253	73	23	2166
Sewing-machine needle	H. M. Jenkins	286,014	Oct. 2	289	81	25	54
Sewing-machine needle	F. W. Ostrom	270,247	Jan. 9	498	147	23	108
Sewing-machine needle	J. W. Packard	279,498	June 12	1111	306	23	2319
Sewing-machine needle	H. G. Suplee	277,629	May 15	1378	372	23	1874
Sewing-machine-needle attachment	J. F. Winchell	290,161	Dec. 11	969	274	25	1066
Sewing-machine needle-bar cover	W. Carr	284,538	Sept. 4	462	131	24	983
Sewing-machine needle-clamp	M. W. Simkins	279,607	June 19	1241	344	23	2349
Sewing-machine needle-clamp and thread-cutter. Combined	W. F. Fuessenich	284,194	Aug. 28	2030	565	24	889
Sewing-machine needle-clamp and thread-guide	J. H. Osborn	284,657	Sept. 11	606	171	24	1013
Sewing-machine needle-threader	F. Pommer	282,116	July 31	2257	619 620	24	415
Sewing-machine needle-threading attachment	W. L. Spencer	282,233	July 31	2406	662	24	440
Sewing-machine needles. Machine for making	J. J. M. Chauvet	273,027	Feb. 27	1899	512 513	23	781
Sewing-machine presser-foot	H. C. Goodrich	270,947	Jan. 23	1387	401	23	288
Sewing-machine presser-foot	A. W. Johnson	282,642	Aug. 7	202	59	24	535
Sewing-machine presser-foot	J. H. Parkhill	282,113	July 31	2254	618	24	415
Sewing-machine presser-foot	E. T. Thomas	285,937	Oct. 2	205	58	25	40
Sewing-machine presser-foot and gage	E. A. Wellman	288,529	Nov. 13	935	255	25	678
Sewing-machine quilting attachment	H. T. Davis	271,690	Feb. 6	125	35	23	461
Sewing-machine quilting attachment	H. T. Davis	289,395	Dec. 4	27	9	25	892
Sewing-machine quilting attachment	A. Heartsill	272,688	Feb. 20	1391	390 391	23	698
Sewing-machine quilting attachment	O. C. Pope	271,920	Feb. 6	409	111	23	512
Sewing-machine quilting attachment	B. O. Prator	288,660	Nov. 20	1099	301	25	714
Sewing-machine quilting-frame	J. E. Beaty	276,337	Apr. 24	1894	525	23	1574
Sewing-machine ripping attachment	W. A. Alrich	281,330	July 17	1241	344	24	232
Sewing-machine ruffler	G. W. Baker	271,679	Feb. 6	110	30	23	459
Sewing-machine ruffler	E. T. Thomas and H. L. Brevoort	270,512	Jan. 9	842	245	23	174
Sewing-machine ruffler	E. S. Yentzer	274,077	Mar. 13	1063	293 294	23	1024
Sewing-machine ruffling and plaiting attachment	L. Onderdonk	272,309	Feb. 13	889	249 250	23	607
Sewing-machine ruffling attachment	W. S. Carlisle	282,843	Aug. 7	441	125	24	578
Sewing-machine ruffling attachment	T. B. Garretson	272,423	Feb. 20	1060	298	23	640
Sewing-machine ruffling attachment	H. C. Goodrich	284,628	Sept. 11	572	162	24	1007
Sewing-machine ruffling attachment	J. M. Griest	280,926	July 10	729	204	24	134
Sewing-machine ruffling attachment	C. Grotz	272,427	Feb. 20	1064	300	23	641
Sewing-machine ruffling attachment	G. W. McCaslin	271,890	Feb. 6	366	101	23	505
Sewing-machine ruffling attachment	L. B. Miller and P. Diehl	272,300	Feb. 13	881	247	23	606
Sewing-machine ruffling attachment	J. S. Sackett	270,558	Jan. 9	900	260	23	185
Sewing-machine ruffling attachment	J. S. Sackett	287,174	Oct. 23	1765	484	25	340
Sewing-machine ruffling attachment	J. S. Sackett	290,477	Dec. 18	1393	385	25	1148
Sewing-machine ruffling attachment	J. S. Sackett	290,478	Dec. 18	1394	385	25	1149
Sewing-machine ruffling or gathering attachment	R. M. Cox	270,751	Jan. 16	1149	329	23	239
Sewing-machine. Running-stitch	J. Heberling	284,300	Sept. 4	177	50	24	934
Sewing machine. Shoe-	J. C. Hoadley	273,531	Mar. 6	372	99	23	898
Sewing-machine shuttle	S. B Bartholomew	269,998	Jan. 2	206	50	23	43
Sewing-machine shuttle	G. A. Brady	277,873	May 22	1667	455	23	1938
Sewing-machine shuttle	W. Brown	278,303	May 22	2212	607	23	2026
Sewing-machine shuttle	G. W. Burgess	278,503	May 29	2477	675	23	2082
Sewing-machine shuttle	E. Chavers	281,453	July 17	1398	384	24	258
Sewing-machine shuttle	R. Leavitt	285,418	Sept. 25	1547	436	24	1191
Sewing-machine shuttle	O. L. Smith	276,489	Apr. 24	2076	576	23	1606
Sewing-machine shuttle	E. T. Thomas	287,887	Nov. 6	119	35	25	528
Sewing-machine shuttle	G. H. Thomas	273,781	Mar. 13	707	191	23	963
Sewing-machine shuttle	J. Tripp	276,731	May 1	263	67	23	1669
Sewing-machine shuttle	T. F. Ungemach	271,552	Jan. 30	2148	618	23	426
Sewing-machine shuttle	T. Whitehead	279,208	June 12	743	204	23	2260
Sewing-machine shuttle	R. Whitehill	279,625	June 19	1262	349	23	2353
Sewing-machine shuttle-bobbins. Machine for winding	H. D. Smith	282,580	Aug. 7	126	38	24	522
Sewing-machine shuttle-carrier	W. Shaw	276,485	Apr. 24	2071	575	23	1605
Sewing-machine shuttle-carrier	A. Tracy	270,617	Jan. 16	975	282	23	207
Sewing-machine shuttle-holder	L. B. Miller and P. Diehl	283,636	Aug. 21	1401	392	24	766
Sewing-machine shuttle-movement	J. A. Johum	282,729	Aug. 7	314	89	24	555
Sewing-machine shuttle-movement	J. J. Wheat	285,537	Sept. 25	1681	473 474	24	1216
Sewing-machine shuttle. Rotary	W. Lonsdale	273,747	Mar. 13	633	174	23	954
Sewing-machine side-drawer case	T. H. Stewart	277,955	May 22	1758	479	23	1947
Sewing-machine. Single-thread	E. Thimonnier, Fils, and C. Vernay	287,592	Oct. 30	2306	624 625	25	448
Sewing machine. Sole-	G. McKay and J. C. Hoadley	272,735	Feb. 20	1450	407	23	709
Sewing-machine spool holder and unwinder	T. R. Nichols	280,504	July 3	208	54	24	37
Sewing-machine spool-stand	E. Cornely	279,919	June 26	1612	453	23	2420
Sewing-machine stand	W. R. Curtis	285,019	Sept. 18	1068	298	24	1101
Sewing-machine stand	J. H. Osborn	282,559	Aug. 7	106	32	24	518
Sewing-machine stand and treadle	R. Whitehill	279,622	June 19	1259	349	23	2352
Sewing-machine stop-motion. Button-hole	A. Felber	275,622	Apr. 10	992	268	23	1403
Sewing machine. Straw-braid-	F. Blackburn	279,855	June 19	1531	428	23	2199
Sewing-machine table	C. B. Rathbun	271,362	Jan. 30	1909	552	23	384
Sewing-machine table and cover	J. J. Wheat	285,534	Sept. 25	1679	472	24	1215
Sewing-machine tension	G. A. Brady	277,449	May 15	1161	312	23	1839
Sewing-machine tension	J. B. Secor	286,336	Oct. 9	708	189	25	138
Sewing-machine tension. Automatic	R. W. Whitney	277,094	May 8	738	193	23	1758
Sewing-machine tension device	W. S. Clark, S. R. Farrington, and T. Sheard.	278,096	May 22	1997	529	23	1977
Sewing-machine tension device	I. W. Glazier	270,188	Jan. 2	424	123	23	86
Sewing-machine tension device	H. Holden, Jr	277,281	May 8	956	257	23	1797

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sewing-machine tension device	O. J. Holden and L. Griswold	272,051	Feb. 13	582	157	23	553
Sewing-machine tension device	J. Tripp	282,410	July 31	2626	721	24	479
Sewing-machine tension liberator	J. J. Wheat	285,535	Sept. 25	1680	473	24	1216
Sewing-machine tension-release	T. A. Macaulay	273,562	Mar. 6	418	112	23	905
Sewing-machine thread-controlling device	C. H. Willcox and G. H. Noble	276,113	Apr. 17	1603	442	23	1517
Sewing-machine thread-cutter	E. M. Staples	280,970	July 10	784	217	24	144
Sewing-machine thread-cutter	J. Valero	287,197	Oct. 23	1797	493	25	345
Sewing-machine thread-delivery attachment	D. C. Morgan and C. H. French	285,148	Sept. 18	1227	344	24	1128
Sewing-machine treadle	C. M. Fairbanks	269,925	Jan. 2	122	36	23	25
Sewing-machine treadle	J. H. Osborn	281,392	July 17	1314	363	24	245
Sewing-machine treadle	S. C. Tatum, Jr	276,502	Apr. 24	2093	581	23	1609
Sewing-machine treadle	C. E. Tibbles	274,058	Mar. 13	1039	286	23	1020
Sewing-machine treadle	J. D. Weed	273,921	Mar. 13	878	238	23	998
Sewing-machine treadle	T. C. Woodward and C. M. Fairbanks	270,990	Jan. 23	1353	390	23	283
Sewing-machine trimmer	G. H. Lawrence	290,895	Dec. 25	1938	534	25	1249
Sewing-machine trimmer	T. S. Parker	270,465	Jan. 9	774	227	23	160
Sewing-machine trimmer	T. S. Parker	270,466	Jan. 9	776	227	23	161
Sewing-machine trimmer	A. Warren	278,300	May 22	2208	606	23	2026
Sewing-machine trimming attachment	C. H. Bayley	273,936	Mar. 13	898	245	23	995
Sewing-machine trimming attachment	G. Davidson	284,394	Sept. 4	289	81	24	953
Sewing-machine trimming attachment	G. M. Morris	276,860	May 1	419	112	23	1700
Sewing-machine trimming attachment	W. A. Neely	274,095	Mar. 13	1087	299	23	1028
Sewing-machine trimming attachment	T. S. Parker	270,467	Jan. 9	778	228	23	161
Sewing-machine trimming attachment	T. C. Robinson	277,787	May 15	1557	424	23	1907
Sewing-machine trimming attachment	T. C. Robinson	278,825	June 5	203	59	23	2158
Sewing-machine trimming attachment	T. C. Robinson	286,153	Oct. 2	456	124	25	85
Sewing-machine trimming attachment	A. E. Wallace and J. H. Griffin	271,805	Feb. 20	1539	433	23	725
Sewing-machine trimming mechanism	C. H. Bayley	272,519	Feb. 20	1178	329	23	660
Sewing-machine trimming mechanism	W. A. Neely	286,146	Oct. 2	447	121, 128	25	83
Sewing-machine trimming mechanism	T. C. Robinson	286,164	Oct. 2	467	128, 129	25	87
Sewing-machine tuck-creaser	H. C. Goodrich	275,890	Apr. 17	1249	344	23	1455
Sewing-machine tuck-marker	J. S. Sackett	290,480	Dec. 18	1397	386	25	1148
Sewing-machine tucker attachment	A. A. Fisher and A. Hart	278,422	May 29	2376	649	23	2063
Sewing-machine tucking attachment	W. F. Kientoff	290,065	Dec. 11	857	244	25	1045
Sewing-machine. Vertical-feed	E. D. Fellows	280,731	July 3	473	134	24	84
Sewing-machine. Vertical-feed	E. D. Fellows	280,732	July 3	475	135	24	84
Sewing machine. Vertical-feed	E. D. Fellows	282,873	Aug. 7	477	134	24	585
Sewing-machine. Vertical-feed	E. D. Fellows	282,874	Aug. 7	479	134	24	585
Sewing-machine. Wax-thread	S. W. Wardwell, Jr	270,710	Jan. 16	1097	314	23	229
Sewing-machine welt-guide	D. A. Sutherland	282,798	Aug. 7	388	109, 110	24	568
Sewing-machine welt-guide	C. Turner	273,915	Mar. 13	869	236	23	991
Sewing-machines. Automatic tension device for	E. Murphy	290,345	Dec. 18	1209	338	25	1116
Sewing-machines. Clamp-guide for button-hole	J. Bolton and A. D. Pents	277,106	May 8	752	198	23	1760
Sewing-machines. Cloth cover for	A. H. Oliver	276,270	Apr. 24	1791	498	23	1557
Sewing-machines. Lamp-supporting bracket for	M. E. Smith	274,984	Apr. 3	129	36	23	1248
Sewing-machines. Mechaniam for operating	S. F. Lewis	279,959	June 26	1665	468	23	2429
Sewing-machines, &c. Motor for	A. L. Bevans	289,958	Dec. 11	725	205	25	1020
Sewing-machines. Presser-foot for straw-braid	E. Wiseman	285,333	Sept. 18	1431	404	24	1166
Sewing-machines. Stripping device for wax-thread	S. W. Wardwell, Jr	270,709	Jan. 16	1097	314	23	229
Sewing on beads. Mechanism for	T. K. Keith	271,473	Jan. 30	2053	591	23	410
Sewing on buttons. Machine for	L. J. Driscoll	290,981	Dec. 25	2060	567	25	1268
Sewing strands of braid. Machine for	M. H. Ryder	287,393	Oct. 23	2040	554, 555	25	388
Shackle. Spring	T. W. and H. K. Porter	285,071	Sept. 18	1128	315	24	1111
Shade-fastening spring	W. Nack	289,925	Dec. 11	691	193	25	1014
Shade-holder	O. N. Perkins	286,063	Oct. 2	350	98	25	64
Shade-holder and making the same	G. E. Somers and S. G. Stoddard	285,172	Sept. 18	1255	352	24	1133
Shade-holder. Glass	W. B. Stewartson	273,184	Feb. 27	2021	568	23	816
Shade ornament	W. A. Hull and R. Hoadley	286,135	Oct. 2	435	119	25	81
Shade-pull	C. F. Pease	280,507	July 3	212	55	24	38
Shade-pull	L. G. Turner	280,334	June 26	2116	593	23	2509
Shade-ring clamp	R. A. Wooding	273,420	Mar. 6	231	62	23	873
Shade-roller	D. H. Engle	284,543	Sept. 4	465	132	24	963
Shade-roller	C. F. Shourds	275,531	Apr. 10	872	236	23	1383
Shade-roller. Spring	D. E. Kempster	286,308	Oct. 9	669	179	25	131
Shade-roller. Spring	J. M. Osgood	280,929	June 26	1981	557	23	2485
Shade-roller. Spring	D. Willis	273,657	Mar. 6	531	143	23	925
Shade-rollers. Swinging bracket for	G. Lockhart	272,449	Feb. 20	1082	307	23	645
Shade. Spring-balance	J. A. Fillmore	281,480	July 17	1434	392	24	264
Shade-support	J. Brannen	285,964	Oct. 2	234	66	25	45
Shaft	C. E. Gibbs	285,810	Oct. 2	36	12	25	9
Shaft and tongue for vehicles. Convertible	J. C. Ott	280,462	Dec. 18	1375	380	25	1144
Shaft attachment for vehicles	G. W. Prior	287,468	Oct. 30	2133	579	25	415
Shaft-bearings in mills. Apparatus for keeping cool the	F. O. Matthiessen	270,237	Jan. 9	488	144	23	105
Shaft-bending device	J. W. Dann	283,382	Aug. 21	1109	313	24	712
Shaft-carrier	W. Royer	279,883	June 19	1563	437	23	2405
Shaft-casing	W. F. Hutchinson	276,589	May 1	59	17	23	1638
Shaft-coupler	F. O. Deschamps	269,836	Jan. 2	21	7	23	7
Shaft-coupler	F. O. Deschamps	270,287	Jan. 9	546	161	23	117
Shaft-coupling	C. Barnes	275,877	Apr. 17	1323	364	23	1468
Shaft, &c., coupling	J. Birch	281,436	July 17	1367	377	24	253
Shaft-coupling	A. Faust	287,651	Oct. 30	2385	643	25	463
Shaft-coupling	W. J. F. Liddell	274,795	Mar. 27	1991	553	23	1201
Shaft-coupling	A. Loehner	274,796	Mar. 27	1992	554	23	1201
Shaft-coupling	W. Vielhaber	288,746	Nov. 20	1213	332	25	733
Shaft-coupling	J. J. Wheeler	283,940	Aug. 28	1781	503	24	847
Shaft-coupling	A. Wood	289,329	Nov. 27	1917	532	25	870
Shaft-coupling	G. H. Zechech	284,704	Sept. 11	672	189	24	1024
Shaft-coupling. Universal	J. B. Powell	288,855	Nov. 20	1339	367	25	756
Shaft-hanger	H. C. Crowell	272,861	Feb. 27	1630	456	23	748

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drgs.	Vol.	Page.
Shaft-hanger	H. C. Crowell	278,404	May 29	2354	643	23	2089
Shaft-hanger	W. J. F. Liddell	274,794	Mar. 27	1990	553	23	1201
Shaft-hanger	R. Whitehill	279,624	June 19	1261	349	23	2358
Shaft-loop	H. J. Frost, Jr	273,505	Mar. 6	333	90	23	891
Shaft-loop	J. Wagner	270,161	Jan. 2	395	114	23	80
Shaft or pole iron for vehicles	R. S. Merrill	289,015	Nov. 27	1532	423	25	798
Shaft-press	J. C. Bach	290,834	Dec. 25	1864	515	25	1236
Shaft-support	G. W. Blair	279,076	June 5	568	156	23	2221
Shaft-support. Vehicle	J. J. Ellsworth	280,459	July 3	157	43	24	29
Shaft-support. Vehicle	D. L. Laughlin	288,071	Nov. 6	348	97	25	567
Shaft-support. Vehicle	J. Martin and A. S. Flint	282,545	Aug. 7	83	24	24	514
Shaft. Vehicle	W. H. Scrape	290,936	Dec. 25	1991	549	25	1258
Shaft. Wagon	W. H. Barrett	277,440	May 15	1152	309	23	1837
Shafts. Attaching wheels to	H. E. Scotchmer	284,678	Sept. 11	639	180	24	1018
Shafts. Sleigh	F. P. Thompson	281,162	July 10	1012	283	24	186
Shafts. Sulky	M. Payne	270,838	Jan. 16	1951	360	23	259
Shafting	T. A. Edison	271,614	Feb. 6	37	9	23	447
Shafting-collar	F. I. Pearce	272,974	Feb. 27	1767	495	23	778
Shafting. Combined bracket and adjustable box-bearing for	L. B. Kohnle and W. B. Hamilton	284,564	Sept. 4	489	138	24	987
Shafting-coupling	J. Killip	280,188	June 26	1924	541	23	2475
Shafting-hanger	P. Cramer	281,343	July 17	1255	349	24	234
Shafting. Variable coupling-joint for	W. Johnston	276,420	Apr. 24	1992	552	23	1591
Shaker for mixed beverages	W. H. Murphy	271,350	Jan. 30	1892	548	23	381
Sham-holder	W. H. H. Cram and G. S. Tompkins	284,119	Aug. 28	2024	563	24	888
Sharpener for knives, &c	A. W. Sperry	290,367	Dec. 18	1935	348	25	1121
Sharpening-stone	G. E. Harris	290,579	Dec. 18	1531	.....	25	1171
Shaving and splitting machine. Lap	D. A. Dixon	274,921	Apr. 3	45	11	23	1233
Shavings and dust feeder. Pneumatic	H. C. Baer	277,192	May 8	859	228	23	1779
Shawl-strap	M. Rubin	289,564	Dec. 4	243	68	25	930
Sheaf-carrier	J. W. Elliott	284,400	Sept. 4	294	83	24	953
Sheaf-carrier	I. B. Gage	292,303	July 31	2491	684	24	455
Shearing, punching, and riveting machine	W. A. Palmer	284,054	Aug. 28	1936	541	24	873
Shears: *See* Animal-shears. Coupon-shears. Pruning-shears. Sliding shears. Slotting-shears. Tailor's shears. Wick-trimming shears.							
Shears	J. Yokum, Jr	283,056	Aug. 14	696	195	24	631
Shears for deseaming cloth and for other purposes	F. Basch	276,754	May 1	295	75	23	1676
Sheave-case	G. S. and C. H. Haley	282,454	July 31	2689	738	24	489
Sheave-wheel	E. B. Martindale	286,322	Oct. 9	693	184	25	136
Sheave-wheel	E. B. Martindale	286,323	Oct. 9	694	185	25	136
Sheep-dip	P. M. Carpenter	279,705	June 19	1359	.....	23	2369
Sheep-wash	J. Q. Dunlap	273,972	Mar. 13	938	.....	23	1002
Sheet and plate roll	I. W. Cooper	271,605	Feb. 6	26	7	23	445
Sheet-delivery apparatus	L. C. Crowell	277,548	May 15	1280	343, 344, 345	23	1858
Sheet-delivery apparatus	L. C. Crowell	281,754	July 24	1785	486, 487	24	329
Sheet feeding and registering apparatus	L. C. Crowell	278,777	June 5	125	36, 37, 38, 39, 40	23	2145
Sheet feeding and registering apparatus	L. C. Crowell	278,778	June 5	136	40, 41, 42	23	2146
Sheet-metal articles. Forming	H. Grom. (Reissue)	10,356	July 10	1104	304	24	282
Sheet-metal box	E. J. Hauck	283,238	Aug. 14	915	255	24	670
Sheet-metal box	J. B. Rohrman	284,981	Sept. 11	1002	282	24	1064
Sheet-metal can	E. P. Follett	277,255	May 8	929	249	23	1792
Sheet-metal can	L. E. Fuller and J. H. Macauley	273,060	Feb. 27	1867	594	23	768
Sheet-metal can	E. Norton and J. G. Hodgson	275,936	Apr. 17	1386	381	23	1480
Sheet-metal can	J. S. Rice	278,271	May 22	2159	593, 594	23	2017
Sheet-metal can	A. Stewart	290,135	Dec. 11	941	267	25	1061
Sheet-metal can	F. A. Walsh	273,783	Mar. 13	710	191	23	964
Sheet-metal cans. Mechanism for making	S. S. Getchell	290,325	Dec. 18	1186	332	25	1111
Sheet-metal-cutting machine	E. M. Wilbor	285,091	Sept. 18	1153	322	24	1115
Sheet-metal-cutting machine	F. C. Wilson and Z. H. Bools	279,899	June 19	1581	443	23	2408
Sheet-metal fabric	A. Loeb	271,066	Jan. 23	1560	449	23	316
Sheet-metal fastener	G. W. Traphagan	290,290	Dec. 18	1139	320	25	1103
Sheet-metal fenders. Manufacture of	G. Russell	286,489	Oct. 9	882	239	25	171
Sheet-metal fenders. Manufacture of	G. Russell	286,490	Oct. 9	883	239	25	171
Sheet-metal joint for oil-cans, &c	J. K. Chace	274,271	Mar. 20	1319	364	23	1077
Sheet-metal machine	W. E. Jones	288,575	Nov. 13	989	275	25	669
Sheet-metal. Machine for notching	W. T. Armstrong	280,996	July 10	809	295	24	150
Sheet metal. Machine for wiring	F. C. Wilson and Z. H. Bools	277,180	May 8	846	224, 225	23	1777
Sheet-metal pan	A. Cox	275,806	Apr. 17	1234	338	23	1453
Sheet-metal perforating machine	J. W. Hyatt	283,488	Aug. 21	1239	348	24	735
Sheet-metal pipe	W. Austin	290,659	Dec. 25	1633	449	25	1195
Sheet-metal pipe	L. F. Betts. (Reissue)	10,339	June 12	1133	314	23	2393
Sheet-metal pipe	L. J. Mueller	279,494	June 12	1105	304	23	2318
Sheet-metal-pipe joint	C. Recht	277,427	May 8	1127	303	23	1898
Sheet-metal-pipe sections. Construction of	J. B. Root	283,924	Aug. 28	1757	496	24	842
Sheet-metal pipes. Apparatus for marking angular cuts in	W. H. Clark	279,336	June 12	906	253	23	2267
Sheet-metal plates. Apparatus for tempering and flattening	E. Andrews	284,938	Sept. 11	954	268	24	1074
Sheet-metal press	E. J. Dolan	271,044	Jan. 23	1503	433, 434	23	306

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sheet-metal press	J. M. Seymour	290,275	Dec. 18	1120	315	25	1100
Sheet-metal scrap. Apparatus for grinding	J. Dodge	288,625	Nov. 20	1054	290	25	706
Sheet-metal-shearing machine	G. H. Perkins	276,625	May 1	98	26, 27	23	1644
Sheet-metal-shearing machine	C. Wais	271,956	Feb. 6	448	123	23	519
Sheet-metal spinning machinery	J. Chanmont	286,115	Oct. 2	412	113	25	76
Sheet-metal-vessel top	H. B. Dewey	278,319	May 29	2241	615	23	2040
Sheet-metal tubes. Machine for spirally corrugating	F. R. Grout	286,293	Oct. 9	654	174	25	129
Sheet-metal vessel	W. M. Conway	287,243	Oct. 23	1859	509	25	355
Sheet-metal-vessel handles. Attachment of	E. Mouhot	282,007	July 24	2097	575	24	388
Sheet-metal vessels. Attaching handles to	G. W. Knapp	271,871	Feb. 6	344	95	23	501
Sheet-metal-working tool	C. Hugo	271,638	Feb. 6	67	18	23	458
Shelf-support	E. E. Cassell	278,506	May 29	2480	676	23	2089
Shell	B. B. Hotchkiss	272,052	Feb. 13	583	157	23	553
Shell. Explosive	H. Gruson and A. Hellhoff	287,924	Nov. 6	168	48	25	537
Shell-extractor	J. McDermott	290,255	Dec. 18	1090	304	25	1095
Shell extractor. Broken	W. Pratt	280,239	June 26	1996	561	23	2488
Shell for blasting. Safety	R. B. F. Reed and G. Freund	273,156	Feb. 27	1989	560	23	810
Shell. Time	T. J. Armistead	289,492	Dec. 4	153	42	25	913
Shells. Machine for breaking loaded	A. J. Simpson	290,606	Dec. 18	1567	431	25	1177
Sheller: *See* Cocoanut-sheller. Corn-sheller.							
Shelves. Hanging book	M. S. Drake	275,027	Apr. 3	195	51	23	1258
Shelving. Adjustable and portable	B. F. Roberts	277,510	May 15	1231	332	23	1850
Shelving. Store	J. A. Guest	274,488	Mar. 27	1626	451	23	1136
Shelving. Store	T. A. Harris	273,069	Feb. 27	1876	527	23	790
Shepherd's crook	C. H. Dana	281,243	July 17	1132	311	24	213
Shepherd's crook	E. E. Deland	275,161	Apr. 3	364	100	23	1289
Shifting-rail	O. C. Coggins	274,174	Mar. 20	1196	329	23	1055
Shifting-rail	A. F. Shuler	281,146	July 10	995	278	24	183
Shingle-bunch band	H. W. Carey	286,396	Oct. 9	762	206	25	149
Shingle-machine	J. P. Bowling	272,638	Feb. 20	1334	374	23	688
Shingle-machine	J. P. Bowling	272,639	Feb. 20	1335	375	23	689
Shingle-machine	W. A. Bradley	271,407	Jan. 30	1962	567	23	394
Shingle-machine	J. R. M. Crawford	280,354	July 3	19	5	24	5
Shingle-machine	J. P. Ferrenburg	290,222	Dec. 18	1055	296	25	1089
Shingle-machine	A. Fraser	270,287	Jan. 9	557	164	23	119
Shingle-machine	P. R. Houpe	276,412	Apr. 24	1984	550	23	1589
Shingle-machine	C. J. Weld	273,650	Mar. 6	524	141	23	924
Shingle-planing mill. Rotary	S. M. King	281,520	July 17	1478	406	24	273
Shingle. Roofing	H. A. Jones	279,487	June 12	1097	303	23	2317
Shingle-sawing machine	W. H. Gray	278,128	May 22	1974	541, 542	23	1985
Shingle-sawing machine	O. C. Hanson	289,094	Nov. 27	1633	452	25	815
Shingle-sawing machine	M. Marcoux	285,051	Sept. 18	1105	308, 309	24	1107
Shingle-sawing machine	W. J. Perkins	272,316	Feb. 13	901	252, 253	23	609
Shingle-sawing machine	W. J. Perkins	287,462	Oct. 30	2127	577, 578	25	413
Shingle-sawing machine	H. Wright	290,164	Dec. 11	972	274	25	1067
Shingles. Bunching	A. L. Munson	285,152	Sept. 18	1231	345	24	1128
Shingling-bracket	P. W. Ryan	285,164	Sept. 18	1243	349	24	1131
Ship. Buoyant propeller	J. Lowe	271,203	Jan. 23	1699	490, 491	23	338
Ships' bottoms. Composition for preventing fouling of	N. B. Dennys	274,868	Mar. 27	2107	.....	23	1319
Ships' bottoms. Sheathing for	B. L. Thomson	272,352	Feb. 13	946	262	23	616
Ships' engines. Mechanism for supplying water to	D. Halpin	274,761	Mar. 27	1952	543	23	1194
Ships' gang-platforms. Elevator attachment to	H. N. Pharr	288,109	Nov. 6	397	112	25	576
Ships' logs. Rotator for	G. W. Merrill	272,146	Feb. 13	700	192	23	573
Ships and the rate of currents. Electric log or apparatus for ascertaining the speed of	R. M. Lowne	272,724	Feb. 20	1435	403	23	706
Ships. Construction of	A. P. Bliven	271,213	Jan. 30	1714	496	23	350
Ships. Construction of	M. Marzan	274,624	Mar. 27	1790	498	23	1165
Ships. &c. Device for increasing the speed of	M. C. McDonald	280,646	July 3	370	103	24	65
Ships. Spring-buffer for	C. McAllister	281,280	July 17	1174	324	24	290
Shipping-can	W. S. Laumaster	286,831	Oct. 16	1322	360	25	255
Shipping-can	F. Westerbeck	282,690	Aug. 7	259	75	24	544
Shipping-case	O. F. Silcott	271,283	Jan. 30	1800	522	23	365
Shirt	Z. Bauer	273,902	Mar. 13	729	197	23	967
Shirt	A. F. Baum	283,190	Aug. 14	856	239	24	659
Shirt	A. Borchardt	280,712	July 3	448	128	24	80
Shirt	G. H. Cleveland	286,781	Oct. 16	1260	341	25	243
Shirt	R. Cluett	271,574	Jan. 30	2171	625	23	430
Shirt	R. Cluett	277,006	May 8	619	162	23	1738
Shirt	C. N. Davis	274,919	Apr. 3	44	11	23	1233
Shirt	C. N. Davis	277,553	May 15	1290	346	23	1859
Shirt	G. A. Dubreuil	273,896	Mar. 13	762	206	23	973
Shirt	C. Falkenberg and J. Lederer	270,039	Jan. 2	251	73	23	51
Shirt	C. F. Glenn	275,191	Apr. 3	397	109	23	1295
Shirt	W. L. Hall	270,663	Jan. 16	1036	297	23	219
Shirt	W. L. Hall	276,809	May 1	357	95	23	1689
Shirt	A. E. Hayden	284,634	Sept. 11	580	163	24	1008
Shirt	W. E. Hubbard	272,696	Feb. 20	1401	393	23	700
Shirt	R. H. Hutchinson	286,011	Oct. 2	284	80	25	54
Shirt	T. Kimball	277,744	May 15	1503	407	23	1896
Shirt	A. Lang and H. B. Ott	289,069	Dec. 11	862	245	25	1046
Shirt	L. Lemos	285,046	Sept. 18	1099	306	24	1106
Shirt	H. Lynch and F. L. Sheldon	270,087	Jan. 2	301	89	23	61
Shirt	I. Schneer	274,520	Mar. 27	1670	463	23	1143
Shirt	J. B. See	273,168	Feb. 27	2005	564	23	812
Shirt	I. Sperling	273,906	Mar. 13	858	232	23	969
Shirt	S. Stark	282,234	July 31	2408	662	24	440

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Shirt	W. H. H. Tracy	270,264	Jan. 9	517	152	23	111
Shirt	S. Wallach	277,524	May 15	1249	336	23	1853
Shirt	S. Well	279,467	June 12	1971	296	23	2313
Shirt	M. O. West	272,810	Feb. 20	1544	434	23	725
Shirt	J. S. Williams	277,527	May 15	1255	337	23	1854
Shirt	J. C. Woodman	271,180	Jan. 23	1673	481	23	334
Shirt-band shaper	C. H. Kenyon	290,062	Dec. 11	855	243	25	1044
Shirt. Bosom-	W. H. Norris	289,778	Dec. 4	502	139	25	973
Shirt-bosom	J. Lochman	280,836	July 10	621	174	24	116
Shirt-bosom	S. Stark	285,699	Sept. 25	1877	535	24	1252
Shirt-bosoms. Machine for cutting	E. Schott	271,925	Feb. 6	417	113	23	513
Shirt-collar and necktie. Combined	C. Gerber	276,023	Apr. 17	1491	410	23	1498
Shirt-waist	W. H. Gallup and L. Churchill	289,639	Dec. 4	331	92, 93	25	946
Shirt-waist	W. H. Gallup and L. Churchill	289,640	Dec. 4	333	93	25	946
Shirts. Making	C. A. Gilbert	276,532	Apr. 24	2132	593	23	1615
Shoal-indicator for ships	B. H. Schonhoff	275,804	Apr. 17	1304	358	23	1464
Shoal-water. Device for indicating	F. E. Forster	289,020	Aug. 7	174	52	24	531
Shock-compresser	A. Gorrell	285,255	Sept. 18	1345	379	24	1150
Shock-hauler	B. H. Tripp	282,806	Aug. 7	396	112	24	570
Shoddy-picker	C. S. Dodge	287,106	Oct. 23	1685	461	25	396
Shoe	J. S. Bokenkotter	281,007	July 10	823	229	24	152
Shoe	G. F. Chase	274,721	Mar. 27	1902	531	23	1185
Shoe	J. C. Daggett	289,812	Dec. 11	550	154	25	939
Shoe	M. Dillon	283,082	Aug. 14	734	203	24	636
Shoe	F. E. Farwell	275,813	Apr. 17	1243	342	23	1454
Shoe	P. Foley	282,184	July 31	2350	647	24	429
Shoe	R. Grist and D. Patin	286,129	Oct. 2	430	117	25	79
Shoe	J. L. Joyce	282,901	Aug. 7	509	143	24	590
Shoe	C. J. Loomis	290,249	Dec. 18	1083	303	25	1094
Shoe	W. Rogers	284,066	Aug. 28	1953	545	24	876
Shoe	M. Smith	275,430	Apr. 10	747	198	23	1362
Shoe	E. L. Sprague	283,035	Aug. 14	670	188	24	626
Shoe	F. Toll and W. Weber	281,739	July 24	1766	480	24	325
Shoe	R. H. Wadlow	281,166	July 10	1017	285	24	186
Shoe and glove fastening	W. H. Seymour	282,675	Aug. 7	238	69	24	541
Shoe-button fasteners. Machinery for applying	M. M. Zellers	282,830	Aug. 7	422	{119 / 120}	24	575
Shoe-button-fly scallops. Machine for cutting	A. Morris	281,113	July 10	950	266	24	175
Shoe-calk	H. W. De Courtenay	285,582	Sept. 25	1736	490	24	1226
Shoe-clasp	J. L. Thomson	272,101	Feb. 13	651	177	23	564
Shoe-clasp	J. L. Thomson	280,533	July 3	236	64	24	42
Shoe-clasp	J. L. Thomson	280,534	July 3	238	64	24	43
Shoe-clasp	J. L. Thomson	282,941	July 31	2416	664	24	442
Shoe. Cork-soled	J. B. Mackel	276,284	Feb. 13	867	242	23	603
Shoe-cover	J. K. Miller	282,915	Aug. 7	521	146	24	593
Shoe-fastener	F. J. Mix	281,909	July 24	1986	544	24	365
Shoe-fastener	E. H. Train	275,295	Apr. 3	525	144	23	1315
Shoe-fastening	C. H. Barr	290,625	Dec. 18	1589	437	25	1180
Shoe-fastening	S. A. Milton	273,124	Feb. 27	1948	547	23	803
Shoe for the hoofs of animals	E. S. Thurber	274,852	Mar. 27	2053	572	23	1211
Shoe-heel-beading machine	C. J. Weinman	284,349	Sept. 4	233	65	24	943
Shoe-heeling machine	M. V. Ethridge	271,617	Feb. 6	40	10	23	447
Shoe-holding jack	F. S. Strong	282,128	July 31	2278	625	24	418
Shoe-horn	E. Noppel	288,474	Nov. 13	872	236	25	667
Shoe horn and jack	M. Gysin and E. Huber	271,704	Feb. 6	141	39	23	464
Shoe-last	G. S. Nethercut	285,649	Sept. 25	1815	517	24	1241
Shoe-last attachment	C. E. Goss	279,377	June 12	968	268	23	2296
Shoe-maker's tool	W. F. Larkin	285,979	Sept. 18	1372	387	24	1156
Shoe. Mud-	S. T. Carroll	288,406	Nov. 13	787	213	25	652
Shoe-nail clincher	J. F. Koenig	288,244	Nov. 13	565	157	25	615
Shoe-sole-cutting machine	S. M. Hoye	282,523	Aug. 7	59	17	24	510
Shoe-sole-trimming machine	B. L. Dean	282,857	Aug. 7	459	130	24	581
Shoe-soling machine	J. Westwood	273,207	Feb. 27	2051	577	23	821
Shoe-tip	L. Loeser	271,342	Jan. 30	1873	543	23	377
Shoe-tip blanks. Machine for forming	M. A. Holton	271,848	Feb. 6	318	88	23	497
Shoe-tying machine	A. W. Weeks	274,236	Mar. 20	1277	{352 / 353}	23	1089
Shoe-uppers. Die for cutting	B. W. Geary	279,375	June 12	963	267	23	2296
Shoe-uppers. Making seamless open-bottom	N. Moulton	278,305	May 22	2217	607	23	2027
Shoe vamps. Apparatus for marking	M. J. Ferren	287,264	Oct. 23	1879	515	25	359
Shoes. Device for marking the location of buttons for	J. H. Fotens	279,735	June 19	1391	388	23	2375
Shoes, &c. Fastener for	I. J. Saunders	282,571	Aug. 7	118	35	24	521
Shoes. Machine for attaching buttons to	P. H. Sweet, Jr. (Reissue)	10,373	Aug. 21	1534	433	24	792
Shoes. Manufacture of	F. Kearney	286,204	Oct. 9	519	143	25	106
Shoes or gaiters. Manufacture of	O. E. Mellenny	272,452	Feb. 20	1093	308	23	646
Shoes. Toe-piece for rubber	J. L. Thomson	272,601	Feb. 20	1285	358	23	679
Shoes. Tool for attaching buttons to	J. H. Goodfellow	288,229	Nov. 13	542	150	25	611
Shoe-maker's bench	T. Mullins	278,254	May 22	2132	587	23	2013
Shoe-maker's last	M. J. Dunn	286,794	Oct. 16	1276	345	25	246
Shooting-seat	H. F. Beaumont	272,019	Feb. 13	543	147	23	546
Shot-case	L. M. Bedell	285,454	Sept. 25	1588	446	24	1198
Shot-case. Revolving	H. Westphal	280,979	July 10	793	{220 / 221}	24	146
Shot-holder	J. C. Turner	277,384	May 8	1075	289	23	1818
Shot-machine	E. Shiver	271,374	Jan. 30	1922	556	23	386
Shovel: *See* Breaking-down shovel. Cultivator-shovel. Grain-shovel. Sifting-shovel. Snow-shovel. Steam-shovel. Wooden shovel.							
Shovel	C. K. Edwards	283,086	Aug. 14	728	204	24	637
Shovel and ash-sifter. Combined	E. Frary	287,116	Oct. 23	1694	464	25	327
Shovel-straps. Machine for punching	W. P. T. Jope and W. M. Johnston	276,249	Apr. 24	1766	492	23	1553

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Shovels by power. Device for operating	W. D. Rinehart	284,485	Sept. 4	394	110 111	24	971
Shovels. Making	E. A. Barnes	284,710	Sept. 11	681	192	24	1026
Show and storage case	D. R. Reynolds	274,032	Mar. 13	1005	275	23	1014
Show-box	C. E. Scott	277,515	May 15	1236	333	23	1851
Show box and card	L. Sonn	271,936	Feb. 6	427	116	23	515
Show-box cover	A. C. Rhodes	278,743	June 5	85	25	23	2138
Show-case	G. W. Clous	272,209	Feb. 13	774	214	23	586
Show-case	J. W. Fawkes	279,366	June 12	954	265	23	2294
Show-case and counter	F. G. Bufford	283,374	Aug. 21	1101	310	24	710
Show-case and separator. Combined	E. Jones	272,703	Feb. 20	1411	395	23	702
Show-case. Revolving	J. G. Stevens and E. E. Meeker	275,283	Apr. 3	509	140	23	1313
Show-case. Screw	W. I. Gardiner	273,834	Mar. 13	769	208	23	974
Show-stand	M. K. Barnes	289,799	Dec. 11	532	149	25	986
Show-stand	J. Danner	274,067	Mar. 13	1078	297	23	1027
Show-stand	L. I. Heilbrun	284,202	Sept. 4	58	16	24	914
Show-stand	E. Leger	271,719	Feb. 6	158	44	23	468
Show-stand	C. G. Udell	290,371	Dec. 18	1239	349	25	1122
Shrinkage-gage	H. S. Brown	271,411	Jan. 30	1966	568	23	395
Shutter	I. Paine	282,663	Aug. 7	225	66	24	539
Shutter and fastening therefor	J. Cooper	276,563	May 1	23	7	23	1631
Shutter-bower	W. Butterfield	285,795	Oct. 2	17	5	25	5
Shutter-bower	J. B. Dunwody, Jr	275,167	Apr. 3	369	102	23	1290
Shutter bower and fastener	J. V. Fort	287,816	Nov. 6	32	10	25	513
Shutter-fastener	P. Keffer	286,828	Oct. 16	1319	360	25	254
Shutter-fastener	S. Poole	287,158	Oct. 23	1744	477	25	336
Shutter-fastener	L. Schlechte	273,164	Feb. 27	2001	563	23	812
Shutter-fastener. Automatic	T. J. Dotts	273,265	Mar. 6	26	8	23	839
Shutter. Fire-proof	J. T. Cowles	288,212	Nov. 13	521	145	25	608
Shutter. Fire-proof	R. P. Manly	281,198	July 10	1064	293	24	195
Shutter. Flexible jointed	J. P. Recker	277,608	May 15	1352	364	23	1869
Shutter. Iron	N. A. Foss	270,047	Jan. 2	258	74	23	53
Shutter opener. Window-	J. J. Donahoe and P. J. Finn	270,027	Jan. 2	237	68	23	49
Shutter. Window-	C. T. Cochel	287,906	Nov. 6	145	43	25	533
Shutter. Window-	C. E. Weber	271,384	Jan. 30	1934	559	23	389
Shutter. Window-	J. Wrightsman	277,971	May 22	1778	485	23	1951
Shutter-worker	W. L. Belt	283,194	Aug. 14	862	241	24	660
Shutter-worker	H. M. Chamberlin	284,722	Sept. 11	697	195	24	1028
Shutter-worker	R. G. Dudley	285,347	Sept. 18	1449	408	24	1168
Shutter-worker	J. W. Harrison	270,310	Jan. 9	571	168	23	122
Shutter-worker	H. J. Hunsicker	281,630	July 17	1614	442	24	294
Shutter-worker	W. A. C. Murphy and J. T. Johnston	278,585	May 29	2565	701	23	2097
Shutter-worker	A. C. Wyckoff	281,748	July 24	1775	483	24	327
Shutter-worker and blind-slat operator. Combined	D. Beal	277,663	May 15	1415	382	23	1881
Sickle-grinder	W. S. Ingraham	270,070	Jan. 2	284	84	23	58
Side-bar spring	J. Taylor	286,089	Oct. 2	380	105	25	69
Side spring	C. R. Wilson	283,052	Aug. 14	691	194	24	630
Sidewalk-light	E. K. Chamberlin	273,257	Mar. 6	18	5	23	837
Siding-bracket	S. Woodard	276,950	May 1	544	142	23	1719
Sieve. Adjustable	J. P. Lipps	272,278	Feb. 13	861	241	23	602
Sieve. Coal-	J. G. W. Putnam	287,161	Oct. 23	1746	478	25	337
Sieve. Grain-	S. McClure	271,497	Jan. 30	2063	599	23	416
Sifter	A. L. Henry	281,364	July 17	1283	355	24	239
Sifter. Ash-	U. E. Dodge	279,724	June 19	1380	385	23	2373
Sifter. Ash-	J. Pons	282,924	Aug. 7	530	150	24	595
Sifter. Ash-	J. H. Porter	286,484	Oct. 9	875	237	25	170
Sifter. Ash-	R. S. Van Zandt	271,751	Feb. 6	201	56	23	475
Sifter. Coal and ash	C. H. Ferguson and A. Baker	289,820	Dec. 11	558	156	25	991
Sifter. Coal and ash	W. S. Hewson	284,847	Sept. 11	848	238	24	1055
Sifter. Flour-	J. Henninger	277,278	May 8	954	256	23	1797
Sifter. Flour-	J. E. Welling	284,581	Sept. 4	516	144	24	991
Sifting apparatus	E. Fuchs	282,300	July 31	2489	683	24	454
Sifting machine. Flour-	H. E. L. Bauermeister	278,852	June 5	246	71	23	2165
Sifting shovel. Ash-	L. S. Brown	281,012	July 10	831	231	24	154
Sign	J. Brown, Jr	276,558	May 1	16	5	23	1629
Sign	M. D. Jones	283,115	Aug. 14	767	216	24	644
Sign	J. C. Lake	280,192	June 26	1931	543	23	2477
Sign	N. Newman	283,647	Aug. 21	1413	396	24	769
Sign	A. D. Smith	284,339	Sept. 4	219	62	24	941
Sign for street-cars. Traveling	T. H. Bowles	288,615	Nov. 20	1039	286	25	704
Sign. Illuminated decorative	J. H. Louch	281,536	July 17	1494	411	24	275
Sign. Lamp-	J. S. Thomas	274,411	Mar. 20	1497	413	23	1108
Sign. Luminous	G. H. Babcock	284,163	Sept. 4	3	1	24	905
Signal: *See* Alarm-signal. Car-signal. Car and vessel signal. Electrical signal. Express-signal. Fog-signal. Head-light signal. Nautical signal. Railway-signal. Railway-crossing signal. Railway fog-signal. Railway-switch signal. Railway time-signal. Railway-track signal. Railway-train signal. Telegraph and semaphore signal. Telephone time-signal. Time-signal. Torpedo-signal. Train-order signal.							
Signal	J. H. Bacon	273,218	Feb. 27	2069	581	23	894
Signal and messenger call-box. District	E. W. Applegate	279,629	June 19	1966	351 352	23	2353
Signal apparatus	A. G. Cummings	272,122	Feb. 13	674	184	23	568
Signal apparatus. District	J. C. Wilson	290,302	Dec. 18	1152	323	25	1105
Signal-light. Marine	G. T. Parry	290,918	Dec. 25	1967	542	25	1254
Signal-light. Percussion	C. E. Masten	277,498	May 15	1220	328	23	1848
Signaling apparatus. Automatic	F. B. Wood	275,005	Apr. 3	154	43	23	1252
Signaling apparatus. Individual	J. H. Cary	278,221	May 22	2091	576	23	2005

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Silk and thread polishing machine	W. R. Landfear	281,705	July 24	1720	467	24	318
Silk preparatory to dyeing and weaving. Treating	J. Rubelin	270,557	Jan. 9	899	.....	23	185
Silk-tester	D. D. MacKay and B. A. Armstrong	280,491	July 3	195	51	24	36
Silk-throwing machine	J. E. Tynan	275,548	Apr. 10	893	241, 242	23	1387
Single-tree	J. F. McDaniel	279,410	June 12	1009	280	23	2303
Single-tree attachment	A. L. New	285,503	Sept. 25	1642	462	24	1909
Single-tree clip	A. F. Spohr	284,772	Sept. 11	759	211	24	1039
Sink	G. F. Coomber	287,246	Oct. 23	1861	509	25	356
Sink	W. W. Elliott and W. J. Towne	275,755	Apr. 10	1160	318	23	1432
Sink	J. A. Talpey	273,760	Mar. 13	707	191	23	963
Sink-cleaner	C. R. Turner	285,771	Sept. 25	1983	561	24	1908
Sink. Portable	J. Luther	274,952	Apr. 3	88	24	23	1240
Sink-trap	J. MacDonald	279,655	June 19	1298	361	23	2359
Sink-trap and safety-pocket. Combined	S. W. Babbitt	286,759	Oct. 16	1232	333	25	238
Siphon	C. Frey	273,058	Feb. 27	1865	524	23	788
Siphon	C. E. Sherman	275,530	Apr. 10	871	235	23	1383
Siphon for vessels	F. J. Flocker	290,561	Dec. 18	1507	416	25	1167
Siren for signaling	F. H. Holmes	281,070	July 10	900	250, 251, 252	24	166
Sirup. Apparatus for the manufacture of corn	S. C. Granger	271,235	Jan. 30	1737	503	23	354
Size composition	R. Parke and H. Goldberg	283,652	Aug. 21	1417	.....	24	770
Sizing and filling for cotton cloth and other fabrics	P. Richter	278,183	May 22	2041	.....	23	1997
Skate	E. H. Barney	274,253	Mar. 20	1299	357	23	1073
Skate	E. H. Barney	274,254	Mar. 20	1300	358	23	1073
Skate	J. A. Dodge	286,792	Oct. 16	1272	344	25	246
Skate	P. J. Doherty	279,359	June 12	935	261	23	2291
Skate	R. C. Hindley	286,199	Oct. 9	513	141, 142	25	105
Skate	R. C. Hindley	287,933	Nov. 6	180	51	25	539
Skate	A. S. Hunter. (Reissue)	10,293	Mar. 6	589	157	23	935
Skate	H. C. Pomeroy	282,922	Aug. 7	598	149	24	594
Skate	C. E. Purdy	279,105	June 5	618	168	23	2228
Skate. Roller	O. Arnold	287,607	Oct. 30	2331	630	25	452
Skate. Roller	L. J. Baker	280,338	July 3	1	1	24	3
Skate. Roller	G. D. Burton	271,785	Feb. 6	243	68	23	483
Skate. Roller	G. D. Burton	279,220	June 12	756	208	23	2282
Skate. Roller	G. D. Burton	282,156	July 31	2367	633	24	423
Skate. Roller	R. H. Coombs	284,187	Sept. 4	35	9	24	910
Skate. Roller	T. Day	279,138	June 12	671	184	23	2248
Skate. Roller	M. F. Evans	285,590	Sept. 25	1759	499	24	1231
Skate. Roller	J. S. Gallaher	287,820	Nov. 6	36	11	25	514
Skate. Roller	W. P. Gregg	275,482	Apr. 10	812	220	23	1373
Skate. Roller	J. J. Henry	284,009	Aug. 28	1869	529	24	865
Skate. Roller	W. B. Higgins	280,821	July 10	603	168	24	113
Skate. Roller	S. Hipkiss	289,099	Nov. 27	1640	454	25	817
Skate. Roller	A. L. Kitselman	279,489	June 12	1098	303	23	2317
Skate. Roller	A. J. Lutz	277,911	May 22	1707	466	33	1940
Skate. Roller	T. L. Melone	272,298	Feb. 13	878	246	23	805
Skate. Roller	W. J. Morris	283,915	Aug. 28	1744	492	24	840
Skate. Roller	A. Peeler	291,000	Dec. 25	2084	574	25	1272
Skate. Roller	E. C. Phillips	280,236	June 26	1092	560	23	2487
Skate. Roller	C. A. Stoddard	288,508	Nov. 13	913	249	25	674
Skate-roller	E. F. Ballou	285,783	Oct. 2	6	2	25	4
Skate-roller	E. W. Otis	285,836	Oct. 2	65	20	25	14
Skate roller. Parlor	E. B. Mansfield	278,666	May 29	2670	730	23	2115
Skate roller. Parlor	E. B. Mansfield	279,406	June 12	1005	278	23	2302
Skates. Roll for roller	G. F. Rice	287,861	Nov. 6	83	25	25	522
Skating-rinks and other purposes. Compound for	H. Lumbye and A. De Bevoise	277,043	May 8	668	.....	23	1746
Skeins of silk. Method of and appliance for locking separate	J. and J. Nightingale	287,705	Oct. 30	2456	661	25	477
Skid	F. N. Godfrey	271,837	Feb. 6	307	84	23	495
Skid	S. Halvossen	282,311	July 31	2499	686	24	456
Skid	W. C. Harley	276,685	May 1	195	50	23	1657
Skid	S. Taylor	288,276	Nov. 13	607	166	25	691
Skidding-machine	H. Butler	288,306	Nov. 13	639	175	25	697
Skimmer for evaporating-pans	J. W. Babbit	278,074	May 22	1898	520	23	1972
Skin-puncturing device or recusitator	W. Bennett	273,702	Mar. 13	595	160	23	944
Skins. Apparatus for removing the water-hair from seal and other	J. W. Sutton	276,923	May 1	497	130	23	1712
Skins. Preparing	A. Hesthal	282,316	July 31	2506	.....	24	457
Skins. Tawing	F. E. Dietsch	287,255	Oct. 23	1869	.....	25	358
Skirt-protector	G. A. Blanchard	275,014	Apr. 3	171	46	23	1255
Skirt-protector	M. E. Knight and H. M. Macfarland	282,646	Aug. 7	906	60	24	536
Skirt-protector	C. P. Nicolson	289,020	Nov. 27	1544	426	25	800
Skittle-square or game-board	J. Jotten	284,306	Sept. 4	185	52	24	985
Skiving-machine	W. S. Fitzgerald	287,813	Nov. 6	28	9	25	512
Skiving-machine	M. H. Merriam	270,966	Jan. 23	1415	407	23	292
Sky or vault light roof and roof-pavement	T. Hyatt	284,559	Sept. 4	484	136	24	986
Skylight	A. and G. Bickelhoupt	273,247	Mar. 6	5	2	23	835
Skylight	A. and G. Bickelhoupt	273,248	Mar. 6	7	2, 3	23	836
Skylight	J. Ehrhardt	283,332	Aug. 14	1036	291	24	693
Skylight	G. Hayes	280,036	June 26	1763	495	23	2446
Skylight	P. H. Jackson	282,641	Aug. 7	201	58	24	535
Skylight	J. McIntyre	283,913	Aug. 28	1742	492	24	839
Skylight	J. C. Ryan	286,558	Oct. 9	972	261	25	187
Skylight-bar. Metallic	G. Hayes	282,191	July 31	2359	649	24	431
Skylight-bars, window-sash bars, and moldings. Machine for the manufacture of	G. Hayes	289,096	Nov. 27	1636	452, 453	25	816
Skylight-frame	J. L. Cox	272,859	Feb. 27	1629	456	23	748
Skylight. Metallic	G. Hayes	277,485	May 15	1203	323	23	1846
Skylight. Metallic	G. Hayes	280,034	June 26	1762	495	23	2446
Skylight. Ventilating	C. L. Williams	288,535	Nov. 13	940	257	25	679

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Skylights. Device for opening and closing	J. H. Rose	270,340	Jan. 9	611	179	23	129
Slag for paving, &c. Molding and treating	J. Stickle	289,939	Dec. 11	702	.....	25	1016
Slag for railways and roadways. Preparing	C. Diebold	281,248	July 17	1137	.....	24	214
Slag. Treating blast-furnace	A. D. Elbers	278,002	May 22	1821	.....	23	1958
Slate and blackboard cleaner	W. W. Armington	282,148	July 31	2298	631	24	422
Slate and window cleaner	J. B. Deeds and W. Mack	287,254	Oct. 23	1869	511	25	358
Slate-cleaner	O. Bushnell	284,537	Sept. 4	461	131	24	982
Slate-cleaner	C. E. Ramage	277,341	May 8	1031	277	23	1810
Slate. Folding	W. Stuckle	279,457	June 12	1060	293	23	2312
Slate-frame	C. Nelson	281,785	July 24	1829	499	24	337
Slate-frame	C. Nelson	281,786	July 24	1830	500	24	337
Slate-frame	R. F. Walsh	270,163	Jan. 2	397	114	23	81
Slate frame. School	D. Scrymgeour	277,164	May 8	829	219	23	1774
Slate-frames. Machine for forming muffling-strips for	C. Nelson	281,787	July 24	1831	500	24	338
Slate-frames. Pad to protect the corners of	P. Wardell	285,326	Sept. 18	1425	402	24	1165
Slate. Muffled school	G. Gray	286,196	Oct. 9	510	141	25	105
Slate. Noiseless	J. Ridge	278,744	June 5	86	25	23	2138
Slate. School	J. D. Emack	288,698	Nov. 20	1146	315	25	731
Slate. School	I. Lancaster	290,691	Dec. 25	1676	462	25	1202
Slate. School	A. Maggio	279,656	June 19	1299	361	23	2359
Slate. School	J. Meder	283,267	Aug. 14	956	266	24	678
Slate. School	G. W. Pecan	270,470	Jan. 9	782	229	23	162
Slate. School	C. F. Rapp	289,711	Dec. 4	433	121	25	962
Slate. School	J. B. Walsh	277,387	May 8	1081	290	23	1819
Slate-wiper	D. F. Walbridge	270,708	Jan. 16	1096	314	23	229
Slates. Abacus attachment for school	H. Stewart	271,749	Feb. 6	196	55	23	474
Slaughter-houses. Treating tank-waters of	B. Terne	282,411	July 31	2628	721	24	479
Sled	J. Ames	281,171	July 10	1022	286	24	187
Sled	W. Exner	284,196	Sept. 4	50	14	24	913
Sled	H. Keller	281,372	July 17	1291	357	24	241
Sled	F. C. Klipstein	279,256	June 12	797	221	23	2270
Sled	H. H. Miller	287,700	Oct. 30	2451	660	25	476
Sled attachment. Logging	J. Donalds	289,815	Dec. 11	552	154	25	989
Sled. Bob	W. F. Richmond	290,112	Dec. 11	912	259	25	1056
Sled-brake	E. Fisher	280,165	June 26	1902	535	23	2471
Sled-brake	N. Parker	277,775	May 15	1547	420	23	1905
Sled-brake	O. Pelkey	280,508	July 3	212	55	24	38
Sled. Hand	J. T. Pope	279,430	June 12	1033	286	23	2307
Sled-propeller	L. A. Fuller	282,302	July 31	2490	684	24	454
Sled-propeller	D. R. Ivett	282,897	Aug. 7	506	142	24	590
Sled-shoe	J. S. Roberts	275,945	Apr. 17	1395	384	23	1481
Sleeve-adjuster	C. C. Shelby	273,770	Mar. 13	683	166	23	961
Sleeve-supporter	C. D. Ford	280,167	June 26	1903	536	23	2472
Sleigh	J. A. Chapman	283,325	Aug. 14	1021	286	24	690
Sleigh	W. A. Compton	286,784	Oct. 16	1263	342	25	244
Sleigh	G. W. Dearborn	282,963	Aug. 14	578	163	24	610
Sleigh	L. Debolt, Jr	272,532	Feb. 20	1196	334	23	664
Sleigh	M. J. Ferguson	278,326	May 29	2255	618	23	2042
Sleigh	C. Harrigan	278,662	May 29	2666	729	23	2114
Sleigh	C. Mette	280,499	July 3	202	53	24	37
Sleigh	A. M. Mitchell	278,447	May 29	2410	657	23	2070
Sleigh	G. E. Watson	282,811	Aug. 7	401	113	24	571
Sleigh. Bob	T. B. Weller	290,295	Dec. 18	1145	321	25	1104
Sleigh draft-bar	J. P. Thompson	270,514	Jan. 9	845	246	23	175
Sleigh. Folding	F. Meinecke	278,990	June 5	457	125	23	2201
Sleigh. Logging	A. Hansen	271,843	Feb. 6	312	86	23	496
Sleigh-runner	M. C. Wright	280,989	July 10	803	223	24	148
Sleigh-shoe	O. J. Baldwin	286,371	Oct. 9	747	200	25	146
Sliding gate	S. J. Miller	281,908	July 24	1985	544	24	365
Sliding gate	F. Obenchain	283,648	Aug. 21	1414	396	24	769
Sliding gate	W. R. White	282,140	July 31	2290	628, 629	24	420
Sliding shears	J. M. Ross	272,388	Feb. 13	1006	282	23	626
Slop-jar mat	A. I. Griggs	273,726	Mar. 13	619	166	23	947
Slotting-shears	C. W. Crane	287,249	Oct. 23	1863	510	25	356
Sluice or flood gate	F. G. M. Stoney	282,400	July 31	2614	718	24	477
Smelting-furnace	E. Cartwright	286,777	Oct. 16	1255	339	25	242
Smelting-furnace	S. G. Sackett	278,279	May 22	2168	597	23	2018
Smelting furnace. Copper	J. B. F. Herreshoff	273,840	Mar. 13	777	211	23	975
Smelting refractory ores	J. Campbell	290,629	Dec. 18	1595	438	25	1181
Smoke and cinder conductor	W. A. Brown and J. F. Smith	276,664	May 1	154	39	23	1652
Smoke and cinder conveyer	L. C. Johnson	290,586	Dec. 18	1538	423	25	1172
Smoke and flame outlet for buildings	C. A. Willard	282,822	Aug. 7	414	117	24	574
Smoke and gas consuming furnace	G. Farr	272,035	Feb. 13	559	151, 152	23	549
Smoke and spark conveyer	O. S. Tavshanjian	281,581	July 17	1548	424	24	984
Smoke blower and burner combined	J. Shepard	289,863	Dec. 11	615	171	25	1001
Smoke-burning attachment for stoves, &c	W. H. Richardson	281,399	July 17	1324	366	24	246
Smoke-burning furnace	J. Ritchie	271,989	Feb. 6	498	134	23	526
Smoke-consumer and auxiliary generator for locomotives	E. Livermore	274,451	Mar. 20	1560	427	23	1118
Smoke-consuming and water-heating furnace	E. Livermore	274,450	Mar. 20	1557	427	23	1118
Smoke-consuming device	W. P. Hall	283,600	Aug. 21	1363	381	24	759
Smoke-consuming furnace	G. Blackburn	277,978	May 22	1786	487	23	1952
Smoke-consuming furnace	G. W. Davisson	288,554	Nov. 13	962	265	25	683
Smoke-consuming furnace	P. W. Frain	285,887	Oct. 2	137	89	25	27
Smoke-consuming furnace	P. W. Frain	289,343	Nov. 27	1931	536	25	872
Smoke-consuming furnace	H. R. Wolfe	272,930	Feb. 27	1718	480	23	762
Smoke-consuming furnace	C. Zacharias	275,451	Apr. 10	771	206	23	1366
Smoke-consuming furnace for locomotives	E. L. Brady	271,027	Jan. 23	1483	427	23	304
Smoke-consuming furnaces. Steam-jet for	S. Parker	283,809	Aug. 28	1626	457	24	819
Smoke-stack	J. Ritchie	276,716	May 1	240	61	23	1666
Smoking device. Attachment for tobacco	J. A. Barry	281,430	July 17	1361	375	24	252
Smoking-pipe	J. Cole	273,709	Mar. 13	603	162	23	945

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Smoking-tube	C. B. Loveless	273,294	Mar. 6	65	19	23	845
Smoking-tube	E. A. Smith	281,573	July 17	1538	421	24	282
Smut-machine	P. V. Hennick	276,584	May 1	54	15	23	1637
Snap. Harness-	L. Flagg	281,857	July 24	1921	525	24	353
Snap Harness-	J. A. Park	270,105	Jan. 2	318	94	23	65
Snap-hook	F. C. Ayres	274,694	Mar. 27	1876	593	23	1181
Snap-hook	I. F. Bassford and M. Mahan	285,956	Oct. 2	227	64	25	43
Snap-hook	T. Beecher	282,257	July 31	2433	609	24	445
Snap-hook	W. Bellairs	270,477	June 12	1088	300	23	2315
Snap-hook	O. Benson	286,253	Oct. 9	582	160	25	117
Snap-hook	A. M. Blake	280,983	June 26	2046	575	23	2497
Snap-hook	W. L. and A. C. Brown	283,464	Aug. 21	1906	339	24	720
Snap-hook	L. T. Bulley and D. W. Burnham	280,792	July 10	573	160	24	108
Snap-hook	L. Chapman	286,530	Oct. 9	936	259	25	181
Snap-hook	L. C. Chase	288,774	Nov. 20	1242	341	25	738
Snap-hook	J. Gibbons	276,965	May 1	564	147	23	1723
Snap-hook	J. Gibbons	283,337	Aug. 14	1040	292	24	694
Snap-hook	G. D. Mosher	283,720	Aug. 21	1507	425	24	786
Snap-hook	H. S. Pullman	275,266	Apr. 3	488	136	23	1309
Snap-hook	D. G. Sheridan	271,372	Jan. 30	1920	555	23	386
Snap-hook	H. Straw	275,537	Apr. 10	879	237	23	1384
Snap-hook	S. E. Thompson	278,469	May 29	2436	664	23	2074
Snap-hook	R. B. Whitzel	287,397	Oct. 23	2045	556	25	390
Snatch-block	J. Cochran	279,916	June 26	1609	452	23	2420
Snatch-block	G. A. Ford	271,620	Feb. 6	44	11	23	448
Snatch-block	Z. W. More and M. H. Tarbox	288,252	Nov. 13	572	159	25	616
Snow-banks. Depositing torpedoes in	G. A. Gunther	281,495	July 17	1448	396	24	287
Snow-banks. Device for depositing torpedoes in	G. A. Gunther	275,039	Apr. 3	208	56	23	1261
Snow. Device for clearing railway-cuts of	W. C. Rice	284,900	Sept. 11	901	254 255	24	1065
Snow-excavator	D. P. Bier and H. E. Rolph	286,895	Oct. 16	1405	386	25	268
Snow from sidewalks, &c. Device for removing	W. J. Mehary	275,684	Apr. 10	1067	291	23	1417
Snow. Machine for forming roads and paths upon bodies of	A. A. Smith	286,969	Oct. 16	1497	411 412	25	284
Snow-melting apparatus	M. Hannan	281,500	July 17	1453	398	24	268
Snow-plow	W. H. H. Baker	281,954	July 24	2036	557	24	374
Snow-plow	J. N. Briggs	285,383	Sept. 25	1501	422	24	1183
Snow-plow	J. A. Chisholm	286,779	Oct. 16	1258	340	25	243
Snow-plow	E. C. Dawson	281,031	July 10	856	238	24	158
Snow-plow	G. A. Gunther	276,395	Apr. 24	1965	544	23	1586
Snow-plow	G. A. Gunther	281,496	July 17	1449	396	24	267
Snow-plow	G. A. Gunther	281,497	July 17	1450	397	24	268
Snow-plow	L. Morgan	283,011	Aug. 14	640	181	24	691
Snow-plow	J. Phillips	286,634	Oct. 16	1077	289 290	25	211
Snow-plow	F. Snedigar	280,528	July 3	232	61	24	42
Snow-plow	H. A. Webber	275,301	Apr. 3	534	145 146	23	1316
Snow-plow. Railway	J. Q. Day	282,281	July 31	2418	677	24	449
Snow-remover	F. W. Menze	275,401	Apr. 10	707	189	23	1356
Snow-scraper	R. E. Patten	289,131	Nov. 27	1677	465	25	824
Snow-shovel	M. Howland	288,812	Nov. 20	1287	353	25	746
Snow-shovel. Steam	W. A. Woods	278,382	May 29	2330	637	23	2055
Soap	C. A. Breyer	269,823	Jan. 2	3	.....	23	3
Soap	C. J. Everett	276,376	Apr. 24	1938	.....	23	1582
Soap	T. A. Kasey	283,403	Aug. 21	1131	.....	24	717
Soap	W. H. Townsend	281,807	July 24	1859	.....	24	343
Soap	G. A. Wrisley	282,145	July 31	2295	630	24	431
Soap	C. Zimmerling	286,568	Oct. 9	986	265	25	189
Soap alkali. Producing a perfumed	T. S. Harrison	282,633	Aug. 7	193	.....	24	534
Soap and extractive matter from cotton-seed oil, &c. Manufacture of	J. Longmore	290,079	Dec. 11	876	.....	25	1048
Soap compound	J. K. Alpaugh	269,820	Jan. 2	1	.....	23	3
Soap compound	C. E. Hore	275,212	Apr. 3	427	.....	23	1299
Soap from fats and oils. Making	H. Heckel	273,075	Feb. 27	1882	.....	23	791
Soap. Hard	J. J. Johnston	273,235	Feb. 27	2092	.....	23	827
Soap. Healing	J. J. Johnston	273,236	Feb. 27	2093	.....	23	827
Soap-holder	J. McAnespey	280,053	June 26	1783	500	23	2449
Soap, &c. Machine for cutting	W. D. Smith	273,176	Feb. 27	2013	566	23	814
Soap. Manufacture of	H. De Castro	288,412	Nov. 13	793	215	25	654
Soap. Manufacture and preparation of potash	W. J. Menzies	286,049	Oct. 2	332	.....	25	61
Soap. Manufacture of	O. Liebreich	281,089	July 10	921	.....	24	170
Soap. Medicated	J. J. Dillard	287,642	Oct. 30	2371	.....	25	460
Soap-plotting machine	J. Atkiss	276,326	Apr. 24	1881	522	23	1571
Soap-powder and process of making the same	J. K. Alpaugh	282,032	July 31	2133	.....	24	395
Soap. Process of and apparatus for manufacturing	M. B. Sherwood, Jr., and G. C. Farnsworth.	271,281	Jan. 30	1792	520	23	364
Soap remelting and crutching apparatus	H. W. Dopp	285,736	Sept. 25	1933	547 548	24	1261
Soap sheets. Making	H. Buczkowski	273,946	Mar. 13	908	248	23	997
Soap. Toilet	J. J. Johnston	273,239	Feb. 27	2096	.....	23	828
Soaps. Manufacture of medicated and antiseptic	W. J. Menzies	286,048	Oct. 2	331	.....	25	61
Soaping and dyeing textile fabrics. Apparatus for	J. Gibson, Jr., and J. Platt	278,125	May 22	1970	540 541	23	1984
Sock or stocking. Felted woolen	W. H. Davis and A. A. Hawley	287,808	Nov. 6	21	7	25	511
Socket-wrench	A. P. Searles	284,076	Aug. 28	1967	548	24	878
Socket-wrench	H. Wheeler	269,902	Jan. 2	95	28	23	20
Sod-cutter	A. Test	272,496	Feb. 20	1152	394	23	656
Sod-cutter	A. Test	286,652	Oct. 16	1097	295	25	215
Sod-cutter. Sulky	F. A. Blanchard	274,706	Mar. 27	1888	526	23	1183
Soda. Apparatus for manufacturing bicarbonate of	J. Gandolfo	279,145	June 12	682	187	23	2249
Soda-ash. Purifying	E. H. Russell	271,366	Jan. 30	1916	.....	23	385
Soda. Grinding caustic	F. P. Harned	286,132	Oct. 2	432	.....	25	80
Soda-lime. Making	C. B. Dudley	272,127	Feb. 13	682	.....	23	570

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Soda. Manufacture of bicarbonate of	E. Carey, H. Gaskell, Jr., and F. Hurter.	276,990	May 1	592	156	23	1727
Soda. Manufacture of bicarbonate of	H. Gaskell, Jr., and F. Hurter	276,020	Apr. 17	1484	409	23	1497
Soda. Manufacture of bichromate of	E. P. Potter and W. H. Higgin	279,431	June 12	1033	.....	23	2307
Soda. Treatment of caustic	E. Kirk	275,498	Apr. 10	831	.....	23	1377
Soda-water apparatus	J. Matthews	289,777	Dec. 4	501	139	25	973
Soda-water apparatus. Gas-chamber in	C. A. Prentiss	288,487	Nov. 13	889	242	25	670
Soda-water apparatus. Mixer or agitator for	A. D. Puffer	269,959	Jan. 2	161	47	23	34
Soda-water apparatus. Portable	B. F. Bailey and G. H. Griffen	283,060	Aug. 14	700	196, 197	24	631
Sodium carbonate. Making	C. Knab	287,551	Oct. 30	2940	.....	25	436
Sofa	C. J. Bruschke	277,454	May 15	1168	314	23	1840
Sofa and bath-tub. Combined	C. A. Baker	277,438	May 15	1151	309	23	1837
Sofa and lounge. Combined	W. F. Woodman and J. C. Johansen	276,123	Apr. 17	1615	445	23	1519
Soil and waste pipe	J. Barrett	277,196	May 8	863	229	23	1779
Soil for crops. Machine for preparing the	C. H. Knapp	275,773	Apr. 10	1183	325	23	1436
Solar heat Apparatus for storing and distributing	W. Calver	290,851	Dec. 25	1884	520	25	1240
Solar heaters. Water-lens for	W. Calver	290,852	Dec. 25	1886	520	25	1240
Solder. Apparatus for and process of making comminuted	E. Small	289,579	Aug. 7	126	37	24	522
Solder. Comminuted soft	E. Small	290,967	July 10	780	.....	24	143
Solder-cutting machine	G. T. Pillings	288,482	Nov. 13	884	240	25	669
Soldering and bottoming machine. Combined can	J. S. McCormick	270,452	Jan. 9	760	223	23	157
Soldering apparatus. Can	J. D. Schafer	283,821	Aug. 28	1638	461	24	821
Soldering cans	E. Norton	274,362	Mar. 20	1438	394, 395	23	1097
Soldering-copper	R. James	284,856	Sept. 11	857	241	24	1056
Soldering cylindrical articles of tinware	A. J. Duncan	271,319	Jan. 30	1844	535, 536	23	373
Soldering device	F. F. Ellis	279,234	June 12	771	213	23	2265
Soldering eaves-troughs	J. Geiger	271,057	Jan. 23	1518	437	23	309
Sole-edge-finishing tool	E. B. Stimpson	270,148	Jan. 2	380	110	23	77
Soldering-furnace. Vapor-burning	G. W. Billings	287,901	Nov. 6	141	41	25	532
Soldering-iron	J. C. Covert	283,575	Aug. 21	1338	373	24	754
Soldering-iron	J. Gibbons	278,932	June 5	392	107	23	2190
Soldering-iron	A. P. Olmstead	277,601	May 15	1342	361	23	1867
Soldering-iron. Electrical	C. T. Hughes	287,380	Oct. 23	2023	550	25	386
Soldering machine. Can	L. W. Counselman	277,011	May 8	625	163, 164	23	1739
Soldering machine. Can	I. H. Cox	278,100	May 22	1933	530	23	1978
Soldering machine. Can	J. J., Jr., and E. J. Glackin	278,329	May 29	2258	618	23	2042
Soldering machine. Can	J. G. Jones	283,713	Aug. 21	1500	423	24	785
Soldering machine. Can	G. H. Perkins	288,363	Nov. 13	720	197, 198	25	641
Soldering machine. Can	G. T. Pillings	288,481	Nov. 13	882	239	25	669
Soldering machine. Can	H. W. Sweitzer	281,648	July 17	1633	446	24	297
Soldering tin cans. Machine for	J. J. Johnston	276,823	May 1	373	99	23	1691
Soldering tool. Can	H. Klein	284,641	Sept. 11	586	165	24	1010
Sole and heel edge burnishing machine	W. Gordon	286,128	Oct. 2	428	117	25	79
Sole and upper protector	J. G. Whittier	289,736	Dec. 4	459	129	25	967
Sole channeling and trimming machine	C. T. Stetson	288,377	Nov. 13	746	203	25	645
Sole-channeling machine	C. Chabot	290,576	July 3	284	78, 79	24	51
Sole-fastening. Metal	J. M. Estabrook	290,022	June 26	1745	490	23	2443
Sole flanging and upsetting apparatus	H. M. Haynes	286,926	Oct. 16	1442	396	25	275
Sole. In	J. Jenkins	280,627	July 3	347	96	24	61
Sole. In	O. Long	283,407	Aug. 21	1135	321	24	717
Sole leveling or molding machine	D. S. Smith and A. Eppler, Jr	285,314	Sept. 18	1410	399	24	1162
Sole or heel burnishing machine	H. Bond	276,345	Apr. 24	1902	528	23	1575
Sole-protector	W. Gordon	276,803	May 1	350	93	23	1687
Sole-protector. Metallic	S. M. Street	281,209	July 10	1080	297	24	198
Sole-rounding machine	D. F. Hartford	274,939	Apr. 3	70	19	23	1237
Sole trimming and channeling machine	J. H. Wiegand	277,395	May 8	1088	292	23	1820
Soles or heels. Apparatus for and method of cutting elastic	L. T. Tougas	277,065	May 8	729	191	23	1757
Sorghum-evaporator	P. S. Ewins	284,123	Aug. 28	2028	565	24	889
Sorghum evaporator and rotary skimmer	F. L. Howland	270,545	Jan. 9	863	256	23	182
Sorghum. Separating the sediments, &c., from the saccharine juice of	J. K. Vanderburgh	275,963	Apr. 17	1414	390	22	1485
Sound-transmitting apparatus	J. H. Rogers	287,169	Oct. 23	1758	482, 483	25	339
Sower attachment. Seed	W. T. Armstrong	290,437	July 3	126	34	24	23
Sower. Broadcast hand seed	T. B. Clark	275,590	Apr. 10	939	255	23	1395
Sower, fertilizer, harrow, and roller. Combined seed	T. R. Crane	276,361	Apr. 24	1918	532	23	1579
Sower. Phosphate	W. H. Cornford, Jr	279,135	June 12	668	184	23	2247
Sower. Seed	M. Gibbs	275,633	Apr. 10	1004	271	83	1405
Sowing machine. Wheat	C. C. Carter	284,376	Sept. 4	262	73	24	948
Spacing-instrument	J. O. Madison	287,145	Oct. 23	1727	473	25	333
Spade	M. and S. Shinabery	285,693	Sept. 25	1871	533	24	1251
Spade. Ditching	E. Kirkpatrick and S. Copron	272,266	Feb. 13	847	236	23	599
Spade, fork, &c	C. McAllister	275,7c3	Apr. 10	1195	328	23	1438
Spark-arrester	D. Groesbeck, J. A. Sterling, C. A. Ball, and D. P. Wright.	270,424	Jan. 9	723	213, 214	23	151
Spark-arrester	R. M. Howling	281,766	July 24	1803	492	24	333
Spark-arrester	G. D. Hunter	285,899	Oct. 2	153	43	25	30
Spark-arrester	F. W. Levering	270,445	Jan. 9	752	220	23	156
Spark-arrester	W. A. Maloney	284,646	Sept. 11	593	167	24	1011
Spark-arrester	J. Meier	288,832	Nov. 20	1312	360	25	751
Spark-arrester	H. Millholland	271,255	Jan. 30	1761	510	23	358
Spark-arrester	A. Mitchell	290,064	June 26	1794	504	23	2451
Spark-arrester	T. Patterson	271,910	Feb. 6	393	108	23	510
Spark-arrester	J. C. Printup	288,488	Nov. 13	890	242	25	670
Spark-arrester	G. Saltsman	279,021	June 5	497	135	23	2208
Spark-arrester	N. Shoptaugh	292,933	Aug. 7	539	152	24	596
Spark-arrester	H. M. Smith	285,849	Oct. 2	86	26	25	18

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Spark-arrester	H. M. Smith	288,195	Nov. 6	495	138	25	594
Spark-arrester	L. G. Smock and C. H. Dill	289,158	Nov. 27	1708	475	25	899
Spark-arrester	A. and F. L. Waterman	274,867	Mar. 27	2082	578	23	1215
Spark-arrester. Locomotive	D. Groesbeck	270,423	Jan. 9	719	212	23	150
Spark-arrester. Locomotive	T. J. McMinn	280,206	June 26	1948	547	23	2479
Spark-arresting circuit and device. Electric-	H. L. Bailey	284,354	Sept. 4	239	67	24	944
Spark-conductor. Locomotive	C. C. Baum	292,484	Aug. 7	6	2	24	502
Spark-conductor. Locomotive	F. B. Wells	283,839	Aug. 28	1656	468	24	894
Spark-ejector for locomotives	J. K. Taylor	281,160	July 10	1010	282	24	185
Spark-extinguisher	G. D. Hunter	285,900	Oct. 2	156	44	25	31
Speaking-tube	E. N. Gaillard	285,120	Sept. 18	1188	333	24	1122
Speaking-tube	H. C. Strong	288,887	Nov. 20	1376	379	25	763
Speaking-tube apparatus	G. J. Quinsler	277,508	May 15	1230	331	23	1850
Speaking-tube attachment	F. Gould	272,541	Feb. 20	1204	336	23	665
Speaking-tube mouth-piece	M. Heidelmeier	280,374	July 3	42	12	24	10
Speaking-tubes. Electrical indicator for	J. Capron	283,073	Aug. 14	713	200	24	634
Spectacle-case	J. O. Watts	275,795	Apr. 10	1207	331	23	1440
Spectacle-case and pencil-holder	J. A. Pattee and J. B. Scovell	287,460	Oct. 30	2124	577	25	412
Spectacle-cleaner	J. S. Birch	270,885	Jan. 23	1309	378	23	275
Spectacles	J. L. Borsch	272,521	Feb. 20	1180	330	23	661
Spectacles and eyeglasses	C. F. Beers	271,771	Feb. 6	222	62	23	479
Spectacles and eyeglasses	T. A. Willson and G. W. Meigs	289,740	Dec. 4	463	130	25	967
Speculum and vaginal irrigator	G. W. Lutz	277,042	May 8	667	174	23	1746
Speculum. Anal	A. B. Botsford	282,950	Aug. 14	566	160	24	606
Speculum and dilator	N. S. Hubbell	281,880	July 24	1948	532	24	358
Speed-accelerator	J. Schofield	282,228	July 31	2399	660	24	439
Speed-changing device	T. J. Perrett	272,763	Feb. 20	1486	418	23	715
Speed-changing mechanism	B. B. Powell	276,463	Apr. 24	2046	569	23	1601
Speed-indicator	T. Ackley	273,423	Mar. 6	233	63	23	874
Speed-indicator	T. Blanchard	282,487	Aug. 7	9	3	24	502
Speed-indicator	C. H. Fowler	282,067	July 31	2181	599	24	404
Speed-indicator. Alarm	C. J. Langenbach	275,222	Apr. 3	436	120	23	1301
Speed-indicator. Magnetic	E. Weston	277,179	May 8	845	223	23	1777
Speed mechaniam. Change-	T. J. Perrett	284,476	Sept. 4	382	106	24	969
Speed-recorder	J. C. Henry	270,431	Jan. 9	736	216, 217	23	153
Speed-regulator	J. Ericsson	288,699	Nov. 20	1147	316	25	722
Speed-regulator	H. F. Hodges	271,245	Jan. 30	1747	505	23	356
Speed-regulator	J. C. S. Labaw	287,134	Oct. 23	1719	469	25	331
Speeder	A. A. Davis	272,216	Feb. 13	779	216	23	587
Speeding device. Mechanical	A. Wood	286,890	Oct. 16	1397	384	25	267
Sphygmograph	A. M. Edwards	286,795	Oct. 16	1277	345	25	247
Spigot	G. W. Evans	287,427	Oct. 30	2084	566	25	404
Spigot. Self-closing	F. Mayer	272,732	Feb. 20	1447	406	23	708
Spigots, &c. Device for holding	G. Drummond, Jr	285,590	Sept. 25	1747	495	24	1228
Spike	W. H. Bailey	285,373	Sept. 25	1487	419	24	1161
Spike	H. W. Fowler	272,676	Feb. 20	1377	387	23	696
Spike	J. T. Nulty	277,921	May 22	1717	469	23	1941
Spike	W. H. Perry	270,840	Jan. 16	1253	361	23	259
Spike	H. T. Russell	278,604	May 29	2590	707	23	2101
Spike	W. Taylor	278,628	May 29	2627	717	23	2107
Spike	A. Wakeman, Jr	276,511	Apr. 24	2104	585	23	1611
Spike-extractor	J. Ebbert	290,011	Dec. 11	798	224	25	1034
Spike-extractor	A. P. Prout	271,268	Jan. 30	1777	516	23	361
Spike-extractor	A. P. Prout	276,877	May 1	440	117, 118	23	1704
Spike-machine	J. H. Shepherd	283,674	Aug. 21	1448	406, 407	24	776
Spike-machine	G. H. Waring	272,994	Feb. 27	1787	501	23	774
Spike-making machine	H. Greer	285,355	Sept. 18	1460	411	24	1170
Spike-puller	K. J. Duggan	285,242	Sept. 18	1331	375	24	1147
Spikes and bolts. Machine for making	W. Taylor	278,629	May 29	2628	718, 719	23	2107
Spindle: *See* Bobbin-spindle. Spinning-frame spindle. Loom-shuttle spindle.							
Spindle and support or bearing therefor	J. R. Gray	287,279	Oct. 23	1899	519	25	364
Spindle and support therefor	D. H. Rice	275,519	Apr. 10	858	232	23	1381
Spindle-bearing	J. Booth	272,942	Feb. 27	1733	484	23	764
Spindle-bearing	C. G. Buttrick and T. B. Flanders	285,461	Sept. 25	1595	448	24	1200
Spindle-bearing	W. T. Carroll	290,397	Dec. 18	1276	358	25	1128
Spindle-bearing	H. P. Chase	285,968	Oct. 2	238	67	25	45
Spindle-bolster	C. G. Buttrick and T. B. Flanders	289,971	Dec. 11	742	210	25	1024
Spindle bolster and step combined	T. Watson	279,680	June 19	1332	370	23	2364
Spindle for spooling-machines, &c	P. Laflin	282,331	July 31	2531	694	24	461
Spinning and drawing frames. Drawing-roller for	G. Hill	270,432	Jan. 9	740	217	23	153
Spinning and rope-making machinery. Capstan or drawing-off device for	P. Motiron	281,388	July 17	1307	362	24	944
Spinning and twisting frames and traveler therefor. Ring for	R. White	290,377	Dec. 18	1249	351	25	1123
Spinning and twisting frames. Belt-shipper for	G. Layng	290,779	Dec. 25	1795	495	25	1225
Spinning and twisting machines. Stop-motion for	W. G. Hendee	279,870	June 19	1549	433	23	2403
Spinning, doubling, and twisting silk. Machine for	F. Seymour and A. Bannigan	282,123	July 31	2268	622	24	417
Spinning fibers. Machine for	S. Tweedale	283,045	Aug. 14	683	191, 192	24	628
Spinning frame. Cap-	T. Hall and J. Newton	284,549	Sept. 4	471	134	24	984
Spinning-frame flier	H. B. Frost	277,262	May 8	935	251	23	1793
Spinning-frame kink-catcher	F. Broadbent	280,567	July 3	275	75	24	50
Spinning-frame ring	C. L. L. Emery	288,932	Nov. 20	1431	394	25	773
Spinning frame. Ring-	J. Schütt and J. Warnholts	289,147	Nov. 27	1695	470	25	827
Spinning frame. Ring-	M. E. Sullivan	278,197	May 22	2061	567	23	2001
Spinning-frame spindles. Bearing for	G. E. Taft and H. F. Woodmancy	284,775	Sept. 11	762	212	24	1039
Spinning-frame-spindle bearing	G. B. McCracken and S. Hamer	277,312	May 8	998	268	23	1804
Spinning-frame-spindle bolster	J. R. Gray	289,064	Nov. 27	1692	449	25	814

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Spinning-frame spindle. Ring-	J. R. Gray	288,230	Nov. 13	544	150	25	612
Spinning-frame spindle. Ring-	J. R. Gray	289,344	Nov. 27	1932	537	25	672
Spinning-frame thread-guard. Ring-	J. E. Prest	279,798	June 19	1457	408	23	2387
Spinning frames. Traveler for ring-	J. B. Rolland	275,946	Apr. 17	1396	385	23	1481
Spinning frames. Yarn-tension device for ring-	W. M. Robinson	283,663	Aug. 21	1429	400	24	772
Spinning-machine	H. C. Leonard	282,203	July 31	2371	652	24	433
Spinning-machine, &c	T. Watson	279,681	June 19	1333	371	23	2364
Spinning-machine flier	C. E. Gleason	288,052	Nov. 6	330	93	25	504
Spinning-machine nipper-head	E. S. Ormsby	286,727	Oct. 16	1195	322	25	232
Spinning machine. Silk-	C. Fletcher	286,802	Oct. 16	1285	347, 348	25	248
Spinning-machine spindle	G. H. Allen	288,912	Nov. 20	1407	387	25	769
Spinning-machine spindle and flier	J., Jr., and V. Royle	271,521	Jan. 30	2111	607	23	421
Spinning-machine spindle-bearing	J. Birkenhead. (Reissue)	10,288	Feb. 20	1605	449	23	736
Spinning-machine thread-guard	M. Prescott	285,072	Sept. 18	1129	315	24	1112
Spinning-machine thread-guide	H. P. Chase	275,020	Apr. 3	187	50	23	1257
Spinning-machine thread-guide	T. D. Wilmarth	270,169	Jan. 2	403	116, 117	23	82
Spinning machines. Bobbin for silk-	G. P. Van Riper	278,673	May 29	2680	734	23	2117
Spinning-machines. Saddle for top-rolls of	J. P. McGuinness	284,040	Aug. 28	1922	538	24	871
Spinning-machines. Yarn-catcher and guide-eye for	H. P. Chase	270,179	Jan. 2	412	120	23	84
Spinning-mule	S. W. Burch and J. Gilson	290,742	Dec. 25	1751	484	25	1217
Spinning-mule	S. Jackson	273,997	Mar. 13	964	265	23	1007
Spinning-mule	S. Mock	288,841	Nov. 20	1321	362, 363	25	752
Spinning-mules. Feed-winding regulator for	E. H. Gilbert and T. H. Greenwood	271,447	Jan. 30	2014	581	23	404
Spinning-ring	J. Booth	272,941	Feb. 27	1731	484	23	764
Spinning-ring	W. K. Evans	272,868	Feb. 27	1642	459	23	750
Spinning-ring	W. P. Husband	273,090	Feb. 27	1913	536	23	796
Spinning-ring	G. Jaquith	280,626	July 3	346	96	24	61
Spinning-ring holders. Die for forming	J. L. Parker	275,938	Apr. 17	1388	382	23	1480
Spinning-spindle bearing	W. T. Carroll	272,528	Feb. 20	1190	332	23	663
Spiral-spring post	W. P. Shattuck	289,033	Nov. 27	1560	430	25	803
Spiral springs. Machine for making	O. S. and W. S. Foster	280,923	July 10	721	202	24	133
Spiral wire springs. Machine for making	H. S. Hall	287,827	Nov. 6	45	13, 14	25	515
Spirally-coiled wire spring	E. P. Fowler	283,880	Aug. 28	1705	481	24	832
Spirit-cisterns. Try-box and indicator for	J. Gnadinger, Jr	270,416	Jan. 9	711	210	23	148
Spirits. Process of and apparatus for rectifying	J. H. Thierman	284,087	Aug. 28	1979	551	24	880
Spittoon	J. Bassemir	272,518	Feb. 20	1177	329	23	660
Spittoon	C. Beucus	279,633	June 19	1274	354	23	2355
Spittoon	S. Burnison	285,566	Sept. 25	1714	484	24	1222
Spittoon	W. H. Earle	271,820	Feb. 6	286	78	23	491
Spittoon	C. Gordon	287,534	Oct. 30	2214	601	25	431
Spittoon. Dental	E. B. Bliss	274,105	Mar. 20	1107	305, 306	23	1039
Spittoon for railway-cars, &c	G. D. Burton	272,206	Feb. 13	771	213	23	585
Spittoon-holder	W. E. Burk	286,113	Oct. 2	410	112	25	75
Spittoon-holder. Automatic	B. H. Haskins	286,299	Oct. 9	660	176	25	130
Splice	F. Grinnell	277,478	May 15	1195	331	23	1845
Splint	R. Le Baron	282,650	Aug. 7	210	61	24	536
Splint-cutting machine	C. A. Lee	290,439	Dec. 18	1342	372	25	1138
Splints. Machine for coupling butt-joints of	H. A. Kimball	276,142	Apr. 17	1637	451	23	1523
Split switch	J. H. Crowley and B. M. Temple	277,684	May 15	1439	388	23	1885
Spoke-extractor	R. N. Caughell	277,991	May 22	1807	493	23	1956
Spoke sanding and polishing machine. Carriage-	S. T. Kennan	286,707	Oct. 16	1170	315	25	227
Spokeshave	A. S. Haynes	273,073	Feb. 27	1881	528	23	791
Spokeshave	G. B. Smith	289,459	Dec. 4	100	29	25	904
Spoke-socket	T. Fowler	286,192	Oct. 9	506	139	25	104
Spoke-socket	P. Lincoln	282,538	Aug. 7	75	22	24	513
Spoke-socket	C. E. Merrifield	272,571	Feb. 20	1251	349	23	674
Spoke-socket for wheels	S. Carr	284,183	Sept. 4	32	8	24	910
Spoke-tenoning and felly-boring machine	H. J. Miller	278,995	June 5	463	127	23	2202
Spoke tenoning and tapering machine	O. Allen	279,117	June 12	644	176	23	2243
Spoke tenoning and throating machine	W. H. Doane and G. W. Bugbee	276,009	Apr. 17	1469	405	23	1495
Spoke-tenoning machine	G. H. A. Hackstadt	282,515	Aug. 7	45	14	24	508
Spoke-throating machine	P. Murphy	284,972	Sept. 11	993	280	24	1082
Spokes from wheel-hubs. Device for drawing out	D. S. Tallman	288,511	Nov. 13	916	250	25	675
Spokes, harrow-teeth, &c. Blank for	M. McDowell	283,410	Aug. 21	1138	322	24	718
Spool and bobbin	J. L. Cheney	290,534	Dec. 18	1474	407	25	1161
Spool-blanks and braid-roll blanks. Device for feeding	I. Dimock	278,320	May 29	2242	615	23	2040
Spool-case	H. A. Blanchard	276,344	Apr. 24	1901	527	23	1575
Spool or bobbin	C. Elikan	287,426	Oct. 30	2083	566	25	404
Spool turning and boring machine	J. W. Murray	280,755	July 3	512	144	24	91
Spooling-machine bobbin-holder	A. T. Atherton	270,721	Jan. 16	1111	317, 318	23	232
Spooling-machine bobbin-holder	J. M. Curtice	278,406	May 29	2356	644	23	2060
Spooling-machine thread-guide	R. Atherton and J. Newby	278,487	May 29	2455	669	23	2078
Spoon	E. Aldom	275,112	Apr. 3	302	83	23	1278
Spoon	H. J. Meyer	283,634	Aug. 21	1399	392	24	766
Spoon	D. G. Williams	280,985	July 10	800	222	24	147
Spoon and fork	E. Tolman	285,769	Sept. 25	1979	561	24	1268
Spoon and vial holder. Medicine	S. Pelkey	277,924	May 22	1721	470	23	1941
Spoon and sugar-tongs. Combined	J. Badger	274,695	Mar. 27	1877	523	23	1181
Spoon. Medicine-	J. Moffitt	285,054	Sept. 18	1110	309	24	1108
Spoon-rest	M. A. Maeder	277,304	May 8	987	265	23	1802
Spoons and forks. Manufacture of	L. F. Dunn	280,918	July 10	714	200, 201	24	132
Spout and strainer	J. Cochran	283,207	Aug. 14	878	245	24	663
Spout. Sap-	D. C. Brown	287,414	Oct. 30	2069	562	25	402
Spout. Sap-	P. E. Fox	283,503	Aug. 21	1356	379	24	758
Spout. Sap-	A. E. Hungerford	286,443	Oct. 9	833	226	25	162
Spout. Sap-	M. J. Stark	279,284	June 12	829	230	23	2275

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Spring: *See* Bed-spring. Bed-bottom spring. Bicycle-spring. Bird-cage spring. Blind and door spring. Buggy-bow spring. Car-spring. Carriage-spring. Cart-spring. Chair-spring. Clock and watch spring. Coat-spring. Corset-spring. Cultivator-spring. Cushion-spring. Door-spring. Elliptic spring. Piston-head spring. Platform-spring. Shade-fastening spring. Side spring. Side-bar spring. Spirally-coiled wire spring. Sulky-spring. Vehicle-spring. Vehicle bolster-spring. Vehicle-seat spring. Vehicle side spring. Wagon-spring. Wagon-bolster spring. Watch-case spring.							
Spring	W. Buckley	274,715	Mar. 27	1895	598 529	23	1184
Spring and brace	R. S. Hunseker	284,636	Sept. 11	583	164	24	1009
Spring bending and forming machine	C. Lewis	266,318	Oct. 9	689	183	25	125
Spring-bending machine	J. Fowler	276,678	May 1	186	48	23	1636
Spring equalizer. Platform	J. Elfrink	262,972	Aug. 14	588	166	24	612
Spring fabric	L. W. Boynton	284,717	Sept. 11	692	194	24	1027
Spring-motor	T. D. Faulkner	273,047	Feb. 27	1853	519	23	786
Spring-motor	J. Fearn	272,830	Feb. 20	1567	441	23	730
Spring-motor	G. W. Fitts	271,232	Jan. 30	1734	502	23	354
Spring-motor	G. F. Godley and H. B. Whittaker	278,427	May 29	2383	650 651	23	2065
Spring-motor	G. Jiencke	273,365	Mar. 6	165	46	23	882
Spring-motor	W. H. Neff	283,642	Aug. 21	1407	394	24	767
Spring-motor	B. B. Powell and J. I. Atkins	275,410	Apr. 10	717	191	23	1358
Spring-motor	D. Shive	279,827	June 19	1496	418	23	2393
Spring-motor for vehicles	D. M. Pfauts	282,919	Aug. 7	524	148	24	593
Spring-pin	W. H. Fox	270,410	Jan. 9	704	209	23	147
Spring plates. Machine for bending the eyes of elliptic	J. S. Pessenger	285,922	Oct. 2	184	53	25	36
Spring-roller	W. S. Laycock	271,339	Jan. 30	1870	542	23	377
Spring-roller. Balanced	J. H. Russ	277,429	May 8	1131	305	23	1827
Spring-rollers. Stop for	O. D. Woodbury	285,772	Sept. 25	1984	561	24	1369
Spring-seat	W. H. Bate	288,608	Nov. 13	1031	283	25	606
Spring-setting machine	J. Creagan	285,235	Sept. 18	1325	373	24	1146
Spring-shackle	C. W. Saladee	277,162	May 8	828	218	23	1774
Spring shackle-link	J. D. Robertson	290,271	Dec. 18	1116	314	25	1099
Spring shackle. Vehicle	W. J. Moran	281,547	July 17	1505	413	24	277
Spring-testing machine	W. Harty	277,898	May 22	1694	469	23	1937
Spring-washer for locking nuts	T. M. Erwin	279,068	June 5	585	160	23	2223
Springs. Attaching	J. P. Knobeloch	273,695	Mar. 6	584	155	23	934
Springs. Crank-plate for bolster	J. Smith	287,335	Oct. 23	1969	537	25	376
Springs. Die for bending eyes for elliptical	D. P. Clark	285,231	Sept. 18	1318	371	24	1145
Springs. Machine for coiling and tempering	G. Stites	280,529	July 3	233	61 62 63	24	42
Springs. Machine for forming	C. F. Shoemaker and E. J. Hess	272,912	Feb. 27	1697	475	23	758
Springs. Saddle for vehicle	J. P. Callan	280,910	July 10	704	198	24	131
Springs. Shaped bar for	R. Vose	285,394	Sept. 18	1422	402	24	1164
Sprinkler: *See* Lawn-sprinkler. Revolving sprinkler. Water-sprinkler.							
Sprinkler	A. S. Pennington and E. Beggs. (Reissue.)	10,310	Apr. 10	1213	339	23	1441
Sprocket for rope and similar belts	J. Mills	276,619	May 1	91	25	23	1643
Sprue for foundry use	J. H. Depew	275,339	Apr. 3	589	158	23	1336
Spur	A. Buermann	272,026	Feb. 13	551	149	23	548
Spur	A. Buermann	272,027	Feb. 13	552	149	23	548
Spur	A. Buermann. (Reissue)	10,321	May 1	597	156	23	1788
Square	C. W. Green	281,761	July 24	1797	490	24	332
Square and bevel. Center	J. W. Romans	271,128	Jan. 23	1605	461	23	323
Square and bevel. Try	J. K. Minich	287,847	Nov. 6	69	21	25	519
Square and scale-holder. Folding	W. H. Goldsberry	285,405	Sept. 25	1528	430	24	1188
Square. Bevel	M. Farley	285,601	Sept. 25	1763	499	24	1231
Square. Carpenter's	E. Prescott	280,398	July 3	71	19	24	15
Square. Draftsman's T	A. Hitchcock	274,194	Mar. 20	1216	345	23	1059
Square. Dress	B. T. Phelps	279,979	June 26	1685	473	23	2432
Square. Miter and framing	J. H. Bolles	288,613	Nov. 20	1037	286	25	703
Square. Siding-hook	P. Delany	280,588	July 3	304	84	24	54
Square. T	J. Gardam	285,404	Sept. 25	1527	430	24	1188
Square. T	J. Weidenmann	282,248	July 31	2422	666	24	443
Square. Try	R. Hodges	288,807	Nov. 20	1281	351	25	745
Squibs. Seal for miners'	J. R. Powell	288,484	Nov. 13	886	241	25	670
Stable	G. A. Knight	285,759	Sept. 25	1961	555	24	1965
Stacking railway-rails, lumber, &c. Device for	S. J. Guscott	275,763	Apr. 10	1173	321 323	23	1434
Stair-pad	H. W. Mather	289,920	Dec. 11	687	192	25	1013
Stair-pad	W. Warren	281,325	July 17	1235	342	24	231
Stair-rod securer	F. Kingston	271,063	Jan. 23	1558	448	23	316
Stairs. Iron and illuminating	P. H. Jackson	269,863	Jan. 2	51	16	23	19
Stalk-cutter	E. T. Cook	281,460	July 17	1404	386	24	269
Stalk-cutter	J. J. Coyle	287,248	Oct. 23	1862	510	25	356
Stalk-cutter	G. Duncan and J. R. Evens	281,621	July 17	1606	439	24	293
Stalk-cutter	L. S. and M. J. B. Early	280,590	July 3	305	85	24	55
Stalk-cutter	J. J. Snider and W. H. O'Bannon	288,374	Nov. 13	743	202	25	644

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stalk-cutter	H. J. Springer	270,994	Jan. 23	1449	417, 418	23	298
Stalk-cutter and soil-pulverizer. Combined	J. Lafeber	275,501	Apr. 10	834	226	23	1377
Stamp. Branding-	S. E. Adamson	279,116	June 12	643	176	23	2243
Stamp-canceler	A. Landon	283,902	Aug. 28	1730	488	24	836
Stamp-canceling device	T. McCabe	274,627	Mar. 27	1794	499	23	1166
Stamp case and attacher	J. S. Miller	279,786	June 19	1443	404	23	2385
Stamp. Dating-	R. S. Robson	279,815	June 19	1477	414	23	2390
Stamp for crushing ore. Steam-	E. D. Leavitt, Jr	275,224	Apr. 3	438	120, 121, 122	23	1301
Stamp. Hand-	H. C. Dorr	283,583	Aug. 21	1346	376	24	756
Stamp. Hand-	C. A. Klinkner	289,844	Dec. 11	595	165	25	998
Stamp. Hand-	W. B. Purvis	273,149	Feb. 27	1982	557, 558	23	809
Stamp. Hand-	W. W. Sawyer	287,177	Oct. 23	1769	485	25	341
Stamp. Hand-	L. K. Scotford	284,243	Sept. 4	113	30	24	923
Stamp. Hand-	G. Van Zandt	288,385	Nov. 13	761	205	25	647
Stamp. Hand-	W. D. Wesson	286,884	Oct. 16	1390	381	25	266
Stamp holder. Postage-	I. W. Heysinger	284,737	Sept. 11	714	200	24	1032
Stamp-mill	J. C. Butterfield	285,388	Sept. 25	1507	424	24	1184
Stamp-mill	F. W. Hall	276,582	May 1	52	15	23	1636
Stamp-mill cam	R. H. Butler, W. C. Mount, and J. W. Alexander.	276,350	Apr. 24	1907	529	23	1576
Stamp-mill mortar	J. C. Butterfield	285,391	Sept. 25	1510	425	24	1185
Stamp or hammer. Steam	N. W. Condict, Jr	275,358	Apr. 10	641	171, 172	23	1344
Stamp or hammer. Steam	N. W. Condict, Jr	275,359	Apr. 10	642	172, 173	23	1344
Stamp or hammer. Steam	N. W. Condict, Jr	275,360	Apr. 10	645	173	23	1344
Stamp. Pocket hand-	P. J. Patterson	285,837	Oct. 2	66	20	25	14
Stamp. Self-inking printing-	R. H. Smith	288,674	Nov. 20	1117	307	25	716
Stamp. Steam-power	W. S. Sharpneck	272,485	Feb. 20	1136	319	23	653
Stamp. Steam-power	W. S. Sharpneck	279,984	June 26	1691	475	23	2433
Stamp-sticker	F. C. Graves	270,948	Jan. 23	1388	401	23	289
Stamp. Time-	W. H. Gillette	289,404	Dec. 4	38	11	25	893
Stamps. Dating-box for self-inking hand-	G. Van Zandt	289,475	Dec. 4	125	36	25	909
Stamps, &c. Device for affixing postage-	C. A. Zeising and H. A. Weihmann, Jr.	270,070	June 5	561	154	23	2219
Stamps. Type-holding attachment for hand-	L. H. Moise	280,652	July 3	376	105	24	66
Stamping, &c. Composition for dry-	F. L. Bird	288,199	Nov. 13	509	.....	25	605
Stamping-die	P. Ely	275,897	Apr. 17	1342	370	23	1472
Stamping-machine	W. N. Wheless	289,047	Nov. 27	1578	436	25	806
Stamping-machine. Rotary	P. Drinkaus, Jr	283,871	Aug. 28	1696	478	24	830
Stamping machinery	N. W. Condict, Jr	275,355	Apr. 10	638	170, 171	23	1343
Stanchion. Cattle-	M. G. Wood	290,690	Dec. 18	1581	435	25	1180
Stand: *See* Advertising-stand. Book show-stand. Bottle-stand. Bottle and flask stand. Camera-stand. Carboy-stand. Christmas-tree stand. Cuspidor-stand. Flower-stand. Garment-stand. Hat and bonnet stand. Horseshoeing-stand. Ironing-stand. Kettle-stand. Lathe-stand. Music-stand. Newspaper-stand. Perfumery-stand. Photographic-camera stand. Pitcher-stand. Railway-switch stand. Sample-stand. Sewing-machine stand. Sewing-machine spool-stand. Show-stand. Stove-stand. Swinging stand. Switch-stand. Toilet-stand. Tub-stand. Type-case stand. Wash-stand. Water-cooler stand.							
Stand and rack for exhibiting goods	A. Richards, Sr	279,810	June 19	1471	412	23	2389
Stand-pipe	J. B. Collin	271,195	Jan. 23	1690	488	23	337
Stand-pipe and fire-escape	J. T. Cowles	273,032	Feb. 27	1838	514	23	783
Stand-pipe and fire-escape. Combined	W. and J. M. Heffner	282,314	July 31	2502	688	24	456
Stand-pipe for buildings	J. T. Cowles	273,031	Feb. 27	1837	514	23	783
Standard-clamp	H. C. Stahl	270,855	Jan. 16	1266	365	23	262
Staple	S. Frost	274,481	Mar. 27	1619	449	23	1135
Staple and lock for bag-frames	O. Reichenbach. (Reissue)	10,383	Sept. 18	1481	417	24	1173
Staple-fastener	G. W. McGill	285,640	Sept. 25	1808	514	24	1240
Staple-puller	H. A. Gore	277,420	May 8	1120	300	23	1825
Staples. Implement for driving	W. Young, M. Neil, and C. M. Wetzel	288,191	Nov. 6	469	136	25	593
Staples. Machine for forming	T. S. Bayles	287,087	Oct. 23	1655	454	25	319
Staples. Machine for forming	W. A. Root	277,615	May 15	1359	366	23	1671
Staples. Machine for inserting and clinching	I. W. Heysinger	274,941	Apr. 3	73	20	23	1238
Staples. Machine for making	S. E. Mower	290,994	Dec. 25	2076	571, 572	25	1271
Stapling-machine	C. Kittredge	282,533	Aug. 7	69	21	24	512
Starch	J. Günther	276,806	May 1	352	.....	23	1688
Starch and other valuable substances from waste water in the manufacture of starch, &c. Process of and apparatus for recovering	T. A. Jebb	270,439	Jan. 9	746	219	23	154
Starch. Apparatus for settling and molding	W. Liess	275,394	Apr. 10	700	187	23	1354
Starch, dextrine, glucose, sirup, and grape-sugar. Production of	J. Duff	270,210	Jan. 9	456	.....	23	100
Starch, dextrine, glucose, sirup, grape-sugar, or spirits, beer, and vinegar. Method of and apparatus for manufacturing	J. Duff	270,894	Jan. 23	1318	380	23	277
Starch from wheat, corn, &c. Manufacture of	T. P. Kingsford	280,044	June 26	1774	.....	23	2468

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'gs.	Vol.	Page.
Starch into blocks. Process of and apparatus for molding	W. Liess and M. Maher	284,447	Sept. 4	350	97	24	983
Starch. Manufacture of	L. P. Best	278,490	May 29	2459	670 671	23	2078
Starch. Manufacture of	J. Polson and J. M. Harley	285,067	Sept. 18	1124	.....	24	1111
Starch, &c. Manufacturing	E. S. Renwick	272,324	Feb. 13	910	255	23	610
Starch. Saccharification of	F. P. Stiker	270,960	Jan. 9	513	150	23	110
Starch. Separating	T. H. Müller and J. W. Decastro	273,128	Feb. 27	1954	548 549	23	604
Starch-separator	W. Allen	275,320	Apr. 3	558	152	23	1321
Starch-separator	G. S. Graves	270,304	Jan. 9	563	166	23	120
Starch-separator	F. H. Kimball	275,340	Apr. 3	602	162	23	1328
Starch-table	W. Allen	275,318	Apr. 3	555	151	23	1320
Starch-troughs. Adjustable dam for	F. O. Matthiessen	273,572	Mar. 6	433	116	23	908
Starch-washing machine	W. Allen	273,319	Apr. 3	556	152	23	1321
Starching goods	C. F. Scattergood	284,983	Sept. 11	1004	283	24	1084
Starching-machine	E. B. Hurd	285,901	Oct. 2	158	44	25	31
Station-indicator	C. O. Ball	278,489	May 29	2458	670	23	2078
Station-indicator	E. S. Boynton	279,478	June 12	1089	301	23	2315
Station-indicator	W. W. Campbell	287,094	Oct. 23	1666	457	25	321
Station-indicator	W. C. Collyer	288,162	Nov. 6	453	127	25	567
Station-indicator	S. Forrester	274,927	Apr. 3	51	13 14 15	23	1234
Station-indicator	A. B. Gill	281,684	July 24	1689	460	24	312
Station-indicator	H. Koehler	277,745	May 15	1503	408	23	1896
Station-indicator	G. M. Lane	288,644	Nov. 20	1076	296	25	710
Station-indicator	B. McCrary	274,355	Mar. 20	1430	392	23	1095
Station-indicator	J. A. McDermott	281,383	July 17	1300	360	24	243
Station-indicator	F. C. McDonald	285,289	Sept. 18	1392	391	24	1157
Station-indicator	T. Melrose	285,499	Sept. 25	1637	460 461	24	1908
Station-indicator	I. N. Phillips	285,158	Sept. 18	1237	347	24	1130
Station-indicator	G. P. Rasck	271,985	Feb. 6	492	133	23	525
Station-indicator	G. F. Robertson	279,436	June 12	1039	288	23	2308
Station-indicator	S. Stewart	288,379	Nov. 13	748	203	25	645
Station-indicator	W. H. Waddell	288,518	Nov. 13	923	252	25	676
Station-indicator	J. W. Watts	281,215	July 10	1087	299	24	199
Station indicator. Railway-	P. Price	288,112	Nov. 6	399	113	25	576
Station-indicators. Device for operating	S. Forrester	290,562	Dec. 18	1508	416 417	25	1167
Stationery-box	A. G. Brown	275,578	Apr. 10	927	252	23	1393
Stave-baling machine	C. A. Harris	287,672	Oct. 30	2411	650	25	468
Stave-crozing machine	F. Headen	276,398	Apr. 24	1968	545	23	1567
Stave-cutter	G. W. McKim	276,262	Apr. 24	1784	496	23	1556
Stave-cutting machine	F. Witzmann	271,290	Jan. 30	1809	524 525	23	366
Stave dog. Barrel-	H. Schwarzwalder	289,453	Dec. 4	94	27	25	903
Stave-finishing machine	E. Hibbard	281,066	July 10	896	249	24	165
Stave-jointer	J. F. and W. C. Vogt	288,517	Nov. 13	922	252	25	676
Stave-jointing machine	T. Bruno	271,682	Feb. 6	116	32	23	460
Stave-jointing machine	H. Wilde	271,009	Jan. 23	1466	421 422	23	301
Stave-jointing machines. Knife for	H. A. Crossley	269,831	Jan. 2	16	6	23	5
Stave-machine	P. Flanders	270,772	Jan. 16	1172	335	23	244
Stave machine. Barrel-	W. H. Griffiths	273,274	Mar. 6	35	11	23	840
Stave-shaping machine. Barrel-	J. B. Heverling	283,886	Aug. 28	1712	482	24	833
Stay. Garment-	C. Erlanger	279,549	June 19	1178	326	23	2338
Stay. Garment-	T. B. Farrington	287,916	Nov. 6	158	46	25	535
Steam and air engine	H. E. Depp	290,405	Dec. 18	1282	360	25	1129
Steam and air engine	F. McMellon	273,376	Mar. 6	182	49	23	865
Steam and heating air. Apparatus for reheating exhaust-	L. Hussey	276,588	May 1	57	16	23	1638
Steam. Apparatus for reheating exhaust-	L. Hussey	279,247	June 12	787	217	23	2268
Steam. Apparatus for superheating	L. Block	275,571	Apr. 10	980	249	23	1391
Steam-bath cabinet	B. Galland	270,564	Jan. 9	906	261	23	186
Steam-boiler	G. H. Asire	289,796	Dec. 11	529	147 148	25	985
Steam-boiler	J. Bergmann	273,338	Mar. 6	127	36	23	855
Steam-boiler	V. W. Blanchard	289,962	Dec. 11	729	206	25	1021
Steam-boiler	A. P. Blatchley	289,610	Dec. 4	297	83	25	940
Steam-boiler	J. A. M. Cox	279,920	June 26	1613	453	23	2420
Steam-boiler	G. W. Dickie	275,471	Apr. 10	902	216	23	1371
Steam-boiler	P. F. Dundon	281,037	July 10	861	239	24	159
Steam-boiler	P. Fitzgibbons	274,301	Mar. 20	1360	373	23	1063
Steam-boiler	P. Fitzgibbons	290,762	Dec. 25	1774	490	25	1221
Steam-boiler	A. Ford	272,225	Feb. 13	796	221	23	590
Steam-boiler	R. Garstang	281,051	July 10	877	244	24	162
Steam-boiler	D. M. Graham	286,695	Oct. 16	1157	311	25	225
Steam-boiler	D. Groesbeck	284,415	Sept. 4	313	87	24	956
Steam-boiler	T. Holland	278,963	June 5	429	117	23	2197
Steam-boiler	L. Hoppe	287,832	Nov. 6	58	16	25	516
Steam-boiler	G. Kingsley	282,330	July 31	2531	693	24	461
Steam-boiler	W. J. P. Kingsley	289,661	Dec. 4	359	101	25	950
Steam-boiler	W. R. Kirk	279,395	June 12	993	276	23	2300
Steam-boiler	W. R. Kirk	279,396	June 12	994	276	23	2301
Steam-boiler	F. F. Landis	271,477	Jan. 30	2059	593	23	411
Steam-boiler	J. E. Leadley	289,282	Nov. 27	1856	515	25	858
Steam-boiler	H. H. Lindemuth	283,497	Aug. 21	1949	350 351	24	737
Steam-boiler	J. Oldham and B. N. Payne	272,578	Feb. 20	1257	350	23	674
Steam-boiler	B. N. and D. W. Payne	277,496	May 8	1196	302	23	1826
Steam-boiler	A. A. Plummer	285,923	Oct. 2	185	53	25	36
Steam-boiler	G. A. Porter	273,387	Mar. 6	196	53	23	867

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Steam-boiler	N. W. Pratt	275,787	Apr. 10	1198	329	23	1439
Steam-boiler	N. W. Pratt	275,788	Apr. 10	1200	329	23	1439
Steam-boiler	N. P. Stevens	270,915	Jan. 23	1347	388	23	282
Steam-boiler	H. Stollwerck	272,347	Feb. 13	940	261	23	615
Steam-boiler	H. Stollwerck	286,864	Oct. 16	1362	373, 374	25	261
Steam-boiler	H. H. Suplee	271,541	Jan. 30	2134	614	23	424
Steam-boiler	J. C. Titus	273,640	Mar. 6	511	137, 138	23	921
Steam-boiler	J. W. Van Dyke	289,392	Nov. 27	1905	529, 530	25	867
Steam-boiler and crucible-furnace. Combined	A. Riegler	280,954	July 10	766	212	24	140
Steam boiler and furnace	A. C. Engert	281,852	July 24	1915	523	24	352
Steam-boiler. Base-burning	J. Rowe	286,076	Oct. 2	365	101	25	67
Steam-boiler cleaner	A. Lowcock and J. Taylor	287,038	Oct. 23	1594	439	25	308
Steam-boiler cleaner	C. Reiser	272,770	Feb. 20	1495	420	23	717
Steam-boiler-cleaning apparatus	T. C. Purves	276,627	May 1	104	28	23	1645
Steam-boiler covering	E. A. Hayes	280,470	July 3	173	46	24	32
Steam-boiler fire-box	E. E. Carter	284,610	Sept. 11	553	157	24	1004
Steam-boiler for gas-generators	J. Hanlon, J. E. Leadley, and S. Gibbs.	273,522	Mar. 6	360	96	23	896
Steam-boiler for traction-engines	L. Lillard	284,134	Aug. 28	2040	567	24	891
Steam-boiler heater	H. M. Young	285,453	Sept. 25	1586	446	24	1198
Steam-boiler heater and filter	T. R. Butman	281,013	July 10	831	231	24	154
Steam-boiler indicator and alarm	E. J. Coffin	285,798	Oct. 2	19	6	25	6
Steam boiler or generator	C. Russmann	271,523	Jan. 30	2113	608	23	421
Steam-boiler safety-seam	J. R. Robinson	282,120	July 31	2263	620	24	416
Steam-boiler. Sectional	W. H. Hutchins	288,178	Nov. 6	477	132	25	590
Steam-boiler sediment-collector	J. Spaulding	276,493	Apr. 24	2081	578	23	1607
Steam-boiler. Straw-burning	W. R. Michener	272,453	Feb. 20	1094	309	23	646
Steam-boiler superheater	V. W. Blanchard	289,964	Dec. 11	735	208	25	1023
Steam-boiler-tube cleaner	I. L. Stover	270,614	Jan. 16	973	281	23	207
Steam-boiler-tube closer	G. C. Hicks	287,931	Nov. 6	177	50, 51	25	538
Steam-boiler. Vertical	J. A. Langdon	281,890	July 24	1963	537	24	361
Steam-boiler. Vertical	A. H. B. Sharpe and F. Palmer	283,672	Aug. 21	1446	405	24	775
Steam-boilers. Apparatus for filtering and purifying water in	N. A. T. Jones	286,705	Oct. 16	1168	314	25	227
Steam-boilers. Automatic safety attachment for	C. Case	269,827	Jan. 2	12	4	23	4
Steam-boilers. Combustion-chamber for	J. Scott	270,490	Jan. 9	802	234	23	166
Steam-boilers, &c. Covering for	G. Kelly	273,689	Mar. 6	578	153	23	933
Steam-boilers, &c. Electric alarm for	H. W. Page and H. Carley	290,101	Dec. 11	898	255	25	1052
Steam-boilers. Retaining heat in	G. C. Hicks	287,929	Nov. 6	48	14	25	516
Steam-boilers. Setting	W. J. F. Liddell	271,482	Jan. 30	2065	594, 595	23	413
Steam-cylinder lubricator	T. A. Naylor	286,473	Oct. 9	863	234	25	167
Steam-engine	W. T. Baker	280,710	July 3	445	127	24	80
Steam-engine, &c	A. M. Barton and P. Z. Davis	290,167	Dec. 11	977	276	25	1067
Steam-engine	C. Baumgarten	283,558	Aug. 21	1317	368	24	750
Steam-engine	B. Brazelle	271,781	Feb. 6	236	66	23	481
Steam-engine	F. D. Cummer	281,843	July 24	1901	518, 519, 520	24	351
Steam-engine	A. Eberhard	290,871	Dec. 25	1905	526	25	1244
Steam-engine	H. Hartig	277,897	May 22	1693	462	23	1937
Steam-engine	W. E. Hill	277,034	May 8	657	171	23	1744
Steam-engine	A. W. Jackson	285,271	Sept. 18	1364	384	24	1154
Steam-engine	A. W. Jackson and C. S. White	276,970	May 1	569	148	23	1723
Steam-engine	S. E. Jarvis	275,389	Apr. 10	692	184	23	1353
Steam-engine	J. Kaiser	285,904	Oct. 2	161	45, 46	25	32
Steam-engine	H. and W. Monk	273,126	Feb. 27	1950	547	23	803
Steam-engine	J. W. Nystrom	272,306	Feb. 13	886	248	23	607
Steam-engine	J. F. Pond	286,482	Oct. 9	873	237	25	169
Steam-engine	F. J. Roth	271,741	Feb. 6	186	51	23	472
Steam-engine	A. Schnier and S. R. Smith	276,479	Apr. 24	2064	573	23	1604
Steam-engine	J. B. Shaffer	273,171	Feb. 27	2008	565	23	813
Steam-engine	E. Tandler	278,062	May 22	1886	516	23	1970
Steam-engine	J. Walrath	281,809	July 24	1862	509	24	343
Steam-engine	W. N. Willis	288,684	Nov. 20	1131	311	25	719
Steam-engine	J. C. Wilson	280,703	July 3	439	125	24	78
Steam-engine and electric generator. Combined	L. G. Woolley	286,985	Oct. 16	1521	418	25	288
Steam-engine bed-plate	J. H. Elward	279,994	June 26	1617	454	23	2421
Steam-engine. Compound	M. Brunell	289,065	Nov. 27	1600	443	25	810
Steam-engine. Compound	M. C. Bullock	274,437	Mar. 20	1532	421, 422	23	1113
Steam-engine. Compound	D. N. Melvin	270,552	Jan. 9	892	258	23	184
Steam-engine. Compound balanced	J. R. Wells	278,841	June 5	229	67, 68	23	2169
Steam-engine crank-pin	A. K. Eddowes	286,404	Oct. 9	788	212	25	153
Steam-engine crank-shaft	L. Skinner	276,910	May 1	480	126	23	1710
Steam-engine cylinder	W. A. Clarke	270,875	Jan. 16	1290	372	23	266
Steam-engine cylinders. Device for supplying steam to	E. T. Davies	274,286	Mar. 20	1339	369	23	1080
Steam-engine exhaust-nozzle	W. A. Clarke	270,743	Jan. 16	1139	327	23	238
Steam-engine for mining purposes	B. Yoch	286,105	Oct. 2	400	110	25	73
Steam-engine indicator	L. Stanšk	280,256	June 26	2015	566	23	2491
Steam-engine indicator. Mechanism for indicating the longitudinal expansion of the operative cord of a	G. W. Brown	284,176	Sept. 4	21	6	24	908
Steam-engine-indicator scale	J. W. See	282,931	Aug. 7	537	152	24	596
Steam-engine link-box	H. Blood	278,766	June 5	110	31	23	2142
Steam-engine lubricator	J. H. Wiehl	290,828	Dec. 25	1858	514	25	1235
Steam-engine. Oscillating	J. E. Smith	290,713	Dec. 25	1712	472	25	1210
Steam-engine. Portable	J. Walrath	284,344	Sept. 4	226	64	24	942
Steam-engine. Portable	W. C. Wolfe	284,701	Sept. 11	669	188	24	1023
Steam-engine reversing-gear	W. A. Clarke	272,648	Feb. 20	1345	377, 378	23	691

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'gs.	Vol.	Page.
Steam-engine-reversing gear	M. E. Hershey	285,812	Oct. 2	38	13	25	9
Steam-engine-reversing gear	F. Rock	273,609	Mar. 6	474	128	23	915
Steam-engine-reversing mechanism	J. Frazier	271,327	Jan. 30	1855	538	23	374
Steam-engine separator. Portable	J. H. Elward	275,615	Apr. 10	984	266	23	1402
Steam-engine. Superheating	J. E. Sinclair	279,453	June 12	1056	292	23	2311
Steam-escape. Cylinder-cock	J. H. Porter	290,924	Dec. 25	1971	544	25	1255
Steam-generator	C. Ahrens	287,211	Oct. 23	1815	498	25	348
Steam-generator	B. T. Babbitt	271,397	Jan. 30	1947	563 564	23	392
Steam-generator	J. Brandl	288,688	Nov. 20	1136	313	25	720
Steam-generator	W. Cooper	283,756	Aug. 28	1563	440 441	24	808
Steam-generator	A. H. Crockford	292,172	July 31	2331	643	24	427
Steam-generator	J. E. Culver	289,989	Dec. 11	766	216	25	1099
Steam-generator	H. W. Ellicott	289,818	Dec. 11	556	156	25	990
Steam-generator	E. F. Gordon and H. Hobbs	271,329	Jan. 30	1859	539	23	375
Steam-generator	C. Gorton	280,605	July 3	322	90	24	57
Steam-generator	C. Gorton	280,606	July 3	323	90	24	57
Steam-generator	D. M. Graham	287,824	Nov. 6	43	13	25	515
Steam-generator	S. L. Hill	284,204	Sept. 4	61	17	24	915
Steam-generator	G. W. Lutz	288,584	Nov. 13	1000	275	25	691
Steam-generator	W. P. Magreevy	277,844	May 15	1624	442	23	1918
Steam-generator	G. W. McAllister	287,452	Oct. 30	2115	575	25	410
Steam-generator	J. Miller and D. Howarth	273,579	Mar. 6	441	118	23	910
Steam-generator	L. H. Page	277,848	May 15	1628	443	23	1919
Steam-generator	S. Smith	289,317	Nov. 27	1892	527	25	865
Steam-generator	J. C. Stead	274,046	Mar. 13	1018	279	23	1017
Steam-generator	H. P. and R. E. Tilton	272,798	Feb. 20	1530	431	23	723
Steam-generator	J. W. Van Dyke	276,735	May 1	268	68	23	1670
Steam-generator	J. W. Van Dyke	289,182	Nov. 27	1737	483	25	834
Steam-generator	J. W. Van Dyke	289,183	Nov. 27	1739	483 484	25	835
Steam-generator	J. W. Van Dyke	290,503	Dec. 18	1427	395	25	1153
Steam-generator	J. R. Vance and S. D. Parker	282,808	Aug. 7	398	113	24	570
Steam-generator	R. Venator and J. Weller	282,243	July 31	2418	665	24	442
Steam-generator	S. Waterhouse	288,524	Nov. 13	928	254	25	677
Steam-generator	D. Wilde	275,449	Apr. 10	769	205	23	1365
Steam-generator. Flue and tubular	H. C. Rew	290,927	Dec. 25	1979	546	25	1254
Steam-generator. Magazine or base-burning	W. H. Wilson	287,603	Oct. 30	2323	628	25	451
Steam-generator. Portable	A. W. Eldredge	282,618	Aug. 7	172	52	24	530
Steam-generator. Sectional	W. Burlingame	271,031	Jan. 23	1488	429	23	304
Steam-generator. Sectional	D. Renshaw	274,824	Mar. 27	2023	563	23	1306
Steam-generator. Sectional	W. P. Thompson	281,946	July 24	2027	555	24	372
Steam-generators. Fuel-magazine for	G. Mehring	285,828	Oct. 2	57	17	25	12
Steam-heater	W. B. Dunning. (Reissue)	10,391	Oct. 9	988	266 267	25	190
Steam in street mains and branches. Method of and apparatus for obtaining a high-pressure motor from low pressure of	W. S. Colwell	274,175	Mar. 20	1196	329	23	1055
Steam-motor boiler	J. Schreiber	281,401	July 17	1326	367	24	246
Steam-motor engine	H. F. Gaskill	282,071	July 31	2187	601	24	405
Steam-pipe and boiler covering	L. Aldrich	289,744	Dec. 4	468	132	25	968
Steam-pipe clothing. Cap for	P. Holt	276,044	Apr. 17	1514	417	23	1501
Steam-pipes, &c. Casing for	J. Rielly	282,368	July 31	2578	707	24	470
Steam-pipes, &c. Covering for	J. D. Pierce. (Reissue)	10,375	Aug. 28	2078	577	24	897
Steam-pipes, &c. Covering for	J. D. Pierce. (Reissue)	10,376	Aug. 28	2079	577	24	897
Steam-pressure-gage trap	J. D. Lloyd	281,533	July 17	1492	410	24	275
Steam-shovel	F. C. Starke and P. J. Crowley	271,939	Feb. 6	428	117	23	516
Steam-shovels. Method of and device for the application of cable-power to	F. C. Starke and P. J. Crowley	272,790	Feb. 20	1519	428	23	721
Steam street-mains. Connection-well for	E. Brooks	275,129	Apr. 3	333	91	23	1263
Steam-superheater	W. H. Burnet	278,311	May 29	2233	612	23	2038
Steam-trap	J. H. Banks	271,400	Jan. 30	1953	565	23	392
Steam-trap	G. B. McCracken	277,045	May 8	671	175	23	1147
Steam-trap	J. Morehead	282,353	July 31	2561	702	24	467
Steam-trap	R. Newton	282,558	Aug. 7	105	31, 32	24	518
Steam-trap	J. A. Trane	286,506	Oct. 9	906	245	25	175
Steam-trap	F. H. West	281,592	July 17	1563	428	24	286
Steam-trap	W. O. White and W. D. Huse	278,381	May 29	2328	637	23	2055
Steam-trap and boiler-feeder	R. W. Clark	289,368	Dec. 4	18	6	25	890
Steam-trap and boiler-feeder	J. Collis	270,638	Jan. 16	1003	289	23	212
Steam-trap and boiler-feeder	F. H. West	276,107	Apr. 17	1593	440	23	1515
Steam-trap. Drain and returning	J. H. Blessing	278,390	May 29	2337	639	23	2057
Steam. Utilization of exhaust-	M. Honigmann	287,937	Nov. 6	186	53	25	540
Steam. Utilizing exhaust-	D. Renshaw	274,974	Apr. 3	117	33	23	1245
Steam. Utilizing exhaust-	D. Renshaw	274,975	Apr. 3	118	33	23	1246
Steam. Utilizing exhaust-	D. Renshaw	282,773	Aug. 7	360	101 102	24	563
Steam-washer	O. J. Smith and R. J. Johnson	285,934	Oct. 2	202	57	25	39
Steamboat-staging	J. B. Mooney	290,342	Dec. 18	1305	338	25	1115
Steamer and evaporator. Stock-food	C. F. Farrar and A. Bowman	279,142	June 12	675	186	23	2349
Steamer-chair. Adjustable	F. G. Johnson and J. H. Hayward	271,857	Feb. 6	330	91	23	498
Steamer. Cooking-	J. M. Johnson	287,292	Oct. 23	1918	524	25	367
Steamer. Culinary	I. H. Swink	282,587	Aug. 7	137	41	24	594
Steamer. Domestic	W. B. Allen	272,015	Feb. 13	538	145	23	545
Steaming jumbles, crackers, &c., before baking. Machine for	L. J. Oberle and J. Janggen	281,901	July 10	1068	294	24	196
Steel. Apparatus for compressing liquid	J. F. Bennett	282,041	July 31	2143	588	24	397
Steel. Apparatus for making Bessemer	T. H. Burridge	277,831	May 15	1607	439	23	1916
Steel by the open-hearth process. Manufacture of	W. A. O. Wuth	279,473	June 12	1081	.....	23	2315
Steel. Compound for tempering	J. T. Mercer	278,250	May 22	2127	.....	23	2013
Steel. Compound for the manufacture of	E. Coyle	288,979	Nov. 27	1494	.....	25	792
Steel ingots for rolling. Preparing	W. Hainsworth	279,689	Feb. 20	1381	388	23	697
Steel. Manufacture of	W. W. Chipman	287,935	Oct. 23	1847	.....	25	354

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Steel. Manufacture of	J. Giers	283,735	Aug. 21	1524	430	24	790
Steel. Manufacture of	H. M. Nichols	276,453	Apr. 24	2035	.....	23	1589
Steel. Manufacturing	W. Hainsworth	284,006	Aug. 28	1886	528	24	864
Steel. Manufacturing Bessemer	S. McDonald	287,842	Nov. 6	62	.....	25	518
Steel. Manufacturing crucible cast	J. Reese	283,141	Aug. 14	792	.....	24	647
Steel-melting furnace. Open-hearth	C. M. Ryder	287,864	Nov. 6	87	26	25	523
Steelyard	P. Arnaud and L. Gaytté	280,779	July 10	559	156	24	105
Steering apparatus	J. S. Lake	280,191	June 26	1929	543	23	2476
Steering apparatus	C. G. Otis	285,835	Oct. 2	64	20	25	14
Steering apparatus	R. O. Toole	282,805	Aug. 7	396	112	24	569
Steering apparatus. Steam	J. Frazier	271,326	Jan. 30	1853	537 538	23	374
Steering apparatus. Steam	F. E. Sickels	273,617	Mar. 6	482	129 130	23	916
Steering-engine for ships. Hydraulic	D. P. Dey and G. M. Hathaway	286,534	Oct. 9	939	253	25	181
Steering-engine. Steam	W. C. Williamson	276,117	Apr. 17	1610	443	23	1518
Steering mechanism. Vessel	J. L. Cathcart	274,172	Mar. 20	1194	328	23	1054
Stench-trap	C. Halstead	289,831	Dec. 11	574	160	25	994
Stench-trap	R. McBee	286,951	Oct. 16	1477	405	25	280
Stench-trap	H. Pietsch	270,473	Jan. 9	785	230	23	163
Stench-trap	H. Pietsch	274,139	Mar. 20	1150	317	23	1046
Stencil-holder	J. W. Bennett	277,201	May 8	869	231	23	1781
Stencil-plate for graining	J. J. Callow	280,446	July 3	135	37	24	25
Stencil-plate	S. T. Berry	286,172	Oct. 9	481	133	25	100
Stencil-plate lock	W. M. Harris	275,205	Apr. 3	419	115	23	1298
Stenographic machine	J. Galloway	288,419	Nov. 13	800	217	25	655
Steps. Winter covering for door	S. B. Trescot	271,205	Jan. 23	1701	491	23	339
Stereoscope	C. A. Gartner	283,997	Aug. 28	1850	522	24	859
Stereoscope	H. C. White	281,743	July 24	1770	482	24	326
Stereotype-block	E. E. Pratt	284,757	Sept. 11	742	206	24	1036
Stereotype-blocks. Plate-rack for	J. L. Firm	283,876	Aug. 28	1701	479	24	831
Stereotype-matrices. Machine for making	C. H. Davids	274,918	Apr. 3	38	10	23	1232
Stereotype-plate holder	A. W. Marshall	282,655	Aug. 7	216	63	24	537
Stereotype-plate holder	F. Wesel	276,204	Apr. 24	1716	475	23	1544
Stereotype-plates. Appliance for making	J. H. Stonemets	275,958	Apr. 17	1408	388	23	1484
Stereotype-plates. Machine for trimming	S. D. Tucker	271,380	Jan. 30	1929	558	23	387
Stereotyped line-strips and putting and securing them in column or page form. Apparatus for justifying	M. H. Dement	282,176	July 31	2338	645	24	427
Stereotyping	W. Mears	285,643	Sept. 25	1810	.....	24	1240
Stereotyping-machine	H. Hagemann	270,056	Jan. 2	268	78, 79	23	55
Stereotyping matrix-strips. Apparatus for	M. H. Dement and A. W. Granville	285,470	Sept. 25	1606	451	24	1202
Stereotyping outfit	T. Bradwell and S. K. White	288,203	Nov. 13	512	142	25	606
Stereotyping. Preparing matrix-forms for	M. H. Dement. (Reissue)	10,385	Sept. 25	1994	564	24	1270
Stern-wheel boat	J. J. Schurr	270,344	Jan. 9	617	181 182	23	130
Stile for wire fences	W. H. Rodden	286,226	Oct. 9	542	149	25	110
Stiletto	S. L. Pratt	278,733	June 5	74	22	23	2137
Still. Oil	J. B. Dubler	283,471	Aug. 21	1214	341	24	731
Still. Oil	J. Thomas	282,239	July 31	2413	664	24	441
Still. Self heating and separating	D. Rogers	284,331	Sept. 4	212	59	24	940
Stilt	H. D. P. Allen	279,071	June 5	561	154	23	2219
Stirrup	B. F. Williamson	283,310	Aug. 14	1003	281	24	687
Stirrup for riding-saddles	P. Ganzhorn	281,861	July 24	1925	536	24	354
Stitch-holes. Machinery for producing	E. F. Mower	270,909	Jan. 23	1340	387	23	281
Stock and die	F. Armstrong	286,673	Oct. 16	1125	303	25	290
Stock-indicator	B. A. Fiske	285,805	Oct. 2	27	9, 10	25	7
Stock-indicator for manufacturers	S. Kempner	271,865	Feb. 6	339	93, 94	23	500
Stock loader. Live	W. H. Barnes	286,575	Oct. 16	997	270	25	197
Stock-releasing device	W. Donlon	289,398	Dec. 4	31	10	25	892
Stock-releasing device	A. Iske	283,786	Aug. 28	1600	452	24	815
Stock-rest	J. McVane	286,462	Oct. 9	852	231	25	166
Stock-trough	H. B. Wakefield	290,948	Dec. 25	2007	553	25	1260
Stocking	F. Lasher	271,338	Jan. 30	1870	542	23	377
Stocking and making the same	G. W. Landenberger	286,141	Oct. 2	443	120	25	89
Stocking and method of making the same	R. W. Scott	271,526	Jan. 30	2116	609	23	421
Stocking-blanks. Cutting	M. Landenberger, Jr	276,832	May 1	387	103	23	1694
Stocking-clasp	O. W. Way	288,749	Nov. 20	1216	332	25	733
Stocking. Cut	O. Osborne	288,592	Nov. 13	1012	278	25	693
Stocking-protector	C. A. Schleier	280,522	July 3	226	60	24	40
Stocking, sock, and slipper	W. H. Davis and A. A. Hawley	287,807	Nov. 6	21	7	25	511
Stocking-supporter	A. N. Horner	272,695	Feb. 20	1400	393	23	700
Stocking-supporter	E. Méthot	280,846	July 10	634	178	24	118
Stockings. Making	M. Landenberger, Jr	284,026	Aug. 28	1907	534	24	868
Stoker. Mechanical	G. E. Hibbard	282,519	Aug. 7	51	15, 16	24	509
Stone and emery. Manufacture of artificial	B. Hess	283,603	Aug. 21	1365	.....	24	759
Stone and ore crushers. Movable jaw for	D. Brennan, Jr	281,829	July 24	1885	515	24	347
Stone. Artificial	P. F. Haverty	284,299	Sept. 4	176	.....	24	934
Stone. Artificial	J. S. Peirce	282,219	July 31	2389	.....	24	437
Stone. Artificial	W. P. Rose	279,817	June 19	1480	.....	23	2391
Stone. Artificial	J. H. Thorp	278,671	May 29	2677	733	23	2116
Stone. Artificial	J. S. and L. G. Watts	282,426	July 31	2652	.....	24	483
Stone. Artificial	D. G. Weems	274,237	Mar. 20	1280	353	23	1070
Stone breaker and crusher	P. W. Gates	279,147	June 12	685	187	23	2250
Stone breaking and crushing machine	P. W. Gates	279,146	June 12	683	187	23	2250
Stone-breaking machine	P. W. Gates	272,933	Feb. 13	804	224	23	592
Stone-channeling machine	A. H. Rapp	281,135	July 10	981	274	24	180
Stone. Composite	J. H. Drake and D. G. Weems	273,824	Mar. 13	760	.....	23	972
Stone. Composition to be used in the manufacture of artificial	J. L. Rowland	288,262	Nov. 13	588	.....	25	619
Stone. Compound for the manufacture of artificial	J. A. Greer	269,849	Jan. 2	37	.....	23	10
Stone-cutting apparatus	W. W. Beaumont and J. Welman	270,925	Jan. 23	1357	391	23	284
Stone-dressing lathe	F. Trier	283,685	Aug. 21	1463	412	24	778
Stone-dressing machine	A. McDonald	277,914	May 22	1709	467	23	1940

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Stone-dressing machine	J. T. Turner	281,211	July 10	1082	298	24	198
Stone-dressing machines. Cutter-holder for	A. McDonald	278,352	May 29	2293	627	23	2049
Stone-dressing tool	H. A. Kimball	279,488	June 12	1098	303	23	2317
Stone-drilling machine	J. T. Clark	271,792	Feb. 6	251	70	23	484
Stone for veneers, &c. Artificial	W. Matt. (Reissue)	10,343	June 19	1598	.....	23	2410
Stone for veneers, molded articles, &c. Artificial	W. Matt	289,112	Nov. 27	1653	.....	25	819
Stone. Manufacture of artificial	J. W. Gallup	290,765	Dec. 25	1778	.....	25	1222
Stone. Manufacture of artificial	S. Ravenel	283,358	Aug. 14	1074	.....	24	700
Stone. Manufacturing artificial	R. H. Stone	280,332	June 26	2114	.....	23	2508
Stone or metal. Manufacturing artificial	A. Simon and V. Petit	272,786	Feb. 20	1513	.....	23	720
Stone-sawing machine	L. B. Batcheller	288,296	Nov. 13	627	172	25	625
Stone-sawing machine	A. Folsom	274,926	Apr. 3	50	13	23	1234
Stone-sawing machine	D. Shortsleeve	283,929	Aug. 28	1762	497, 498	24	843
Stone-sawing machines. Automatic sand and water feeding device for	W. T. Ripley	286,071	Oct. 2	359	100	25	66
Stone scouring and polishing machine	A. R. McGahy	274,509	Mar. 27	1655	460	23	1141
Stone scouring and polishing machine	H. Young and H. G. Hubert	290,304	Dec. 18	1156	324	25	1106
Stone-settings. Holder for	S. Joel	289,106	Nov. 27	1648	457	25	818
Stone-smoothing machine	J. Eger	287,648	Oct. 30	2379	641	25	461
Stone, tile, &c. Plastic compound for the manufacture of	E. Pick	281,395	July 17	1317	.....	24	245
Stone-turning lathe	T. F. Clemons	274,563	Mar. 27	1720	477	23	1152
Stone. Undercut imitation	H. C. Luther	290,442	Dec. 18	1346	372	25	1139
Stone-work clamp	J. O'Connor	285,918	Oct. 2	179	51	25	35
Stone-working machine	Z. Butler	288 544	Nov. 13	950	260	25	681
Stones. Manufacture of artificial	G. Lançon	286,023	Oct. 2	299	83	25	56
Stones. Mounting artificial	J. G. C. Cottier	290,863	Dec. 25	1896	523	25	1242
Stool and bucket-holder. Combined milk-	A. Woodward	271,292	Jan. 30	1811	525	23	367
Stool. Commode-	H. H. Hughes	284,852	Sept. 11	852	240	24	1056
Stool. Counter or table	J. J. Reynolds	283,512	Aug. 21	1963	354	24	740
Stool. Folding	J. Briggs	272,853	Feb. 27	1621	453, 454	23	747
Stool. Folding	A. Rintelman	282,371	July 31	2580	708	24	470
Stool foot-rest. Piano-	O. R. Burlingame	280,907	July 10	701	197	24	130
Stool. Milking-	S. P. Perry	272,084	Feb. 13	692	169	23	560
Stool. Milking-	S. P. Perry	287,958	Nov. 6	214	61	25	544
Stool. Office-	M. V. B. Howe	275,384	Apr. 10	683	181	23	1351
Stool. Piano-	J. Emerson	281,676	July 24	1680	457	24	311
Stool. Piano-	T. P. I. Magoun	286,457	Oct. 9	847	230	25	165
Stool. Piano-	J. S. Munson	280,068	June 26	1799	506	23	2452
Stool. Piano-	G. A. Ramseyer	282,926	Aug. 7	532	150	24	595
Stool. Piano-	G. W. Rich	275,413	Apr. 10	721	192	23	1350
Stool. Piano-	W. Yount	270,273	Jan. 9	526	154	23	113
Stool screw-clamp	R. Wangeman	274,680	Mar. 27	1858	517	23	1177
Stool. Store-	J. S. Sammons	277,514	May 15	1235	333	23	1851
Stop-motion or safety-brake for machinery	D. T. Winter	289,949	Dec. 11	714	202	25	1019
Stopper: *See* Boiler-tube stopper. Flue-stopper. Bottle-stopper. Inkstand-stopper. Bottle and jar stopper. Jar and bottle stopper. Tube-stopper. Cable-stopper.							
Stopper-fastening	E. Haas	284,200	Sept. 4	55	15	24	914
Stopper for bottles, jars, &c	H. Barrett	281,334	July 17	1245	345	24	232
Stopper for liquid-containing vessels	E. Burnett	281,611	July 17	1591	435	24	290
Stopper for milk-cans. Lock-	A. P. Browne	281,608	July 17	1586	434	24	289
Stopper for wire rope, &c	E. M. Stoddard and J. N. Johnson	286,863	Oct. 16	1361	373	25	261
Stoppers for bottles, jars, &c. Manufacture of	H. Barrett	281,332	July 17	1243	344	24	232
Stoppers for bottles, jars, &c. Manufacture of	H. Barrett	281,333	July 17	1244	345	24	232
Stoppers of milk-cans, &c. Fastener for	A. P. Browne	281,607	July 17	1585	434	24	289
Stopping and starting mechanism for intermittent machines.	E. Baker	275,116	Apr. 3	310	86	23	1279
Storage-batteries. Automatic regulator for	C. G. Perkins	290,468	Dec. 18	1381	382	25	1145
Storage-battery	C. T. Tomkins	279,046	June 5	532	145	23	2214
Storage-battery	C. T. Tomkins	284,342	Sept. 4	223	63	24	943
Storage or secondary battery	C. J. Van Depoele	276,099	Apr. 17	1582	436	23	1513
Store	J. A. Houston	276,587	May 1	56	16	23	1637
Store-service apparatus	H. Hayden	272,696	Feb. 20	1388	390	23	698
Store-service apparatus	H. H. Hayden	273,525	Mar. 6	362	97	23	896
Store-service apparatus	H. H. Hayden	273,526	Mar. 6	364	97, 98	23	896
Store-service apparatus	H. H. Hayden	277,276	May 8	951	255	23	1796
Store-service apparatus	H. H. Hayden	280,469	July 3	171	45	24	31
Store-service apparatus	H. H. Hayden	283,104	Aug. 14	754	212, 213	24	641
Store-service apparatus	H. H. Hayden	283,239	Aug. 14	915	256	24	670
Store-service apparatus	F. H. Stanwood and M. B. Miller	282,582	Aug. 7	130	39	24	523
Store-service apparatus	E. Werner	283,543	Aug. 21	1292	361, 362	24	745
Store-service apparatus. Carrier for	H. H. Hayden	280,468	July 3	170	45	24	31
Store-service apparatus. Pneumatic	J. W. Hardie	289,649	Dec. 4	345	97	25	948
Store-service system	G. R. Elliott	279,862	June 19	1538	430	23	2400
Store-service system	G. R. Elliott	283,088	Aug. 14	730	205	24	637
Store-service system	A. B. Upham	284,989	Sept. 11	1014	285	24	1085
Store-track switch	J. C. Coram	278,657	May 29	2660	728	23	2113
Stores. Carrying system for	G. R. Elliott	284,953	Sept. 11	974	273	24	1078
Stove	E. W. Anthony	271,013	Jan. 23	1471	423	23	301
Stove	M. C. Armour	273,005	Feb. 27	1803	504, 505	23	777
Stove	M. C. Armour	284,112	Aug. 28	2012	560	24	886
Stove	M. C. Armour	284,113	Aug. 28	2014	560	24	887
Stove	P. O. Elterich	291,011	Dec. 25	2097	578	25	1274
Stove	I. W. Harlow	273,730	Mar. 13	636	169	23	951
Stove	J. W. Kocher	282,735	Aug. 7	319	91	24	556

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Stove	C. Mattice	287,765	Oct. 30	2544	684	25	492
Stove	G. W. McAllister	287,453	Oct. 30	2116	575	25	411
Stove	W. H. and E. A. Noyes	282,660	Aug. 7	222	65	24	538
Stove	W. A. G. Schönheyder	270,135	Jan. 2	360	105	23	73
Stove	I. D. Smead	273,402	Mar. 6	210	57	23	869
Stove	J. W. Thomas	273,912	Mar. 13	866	235	23	990
Stove	G. W. Walker	274,062	Mar. 13	1043	287	23	1020
Stove	G. W. Walker	275,442	Apr. 10	762	203	23	1364
Stove	L. A. White	286,664	Oct. 16	1112	299	25	218
Stove and furnace fire-pot	J. V. D. Eldredge	283,584	Aug. 21	1347	376	24	756
Stove and furnace grate	F. O. Hart	274,938	Apr. 3	69	19	23	1237
Stove and furnace grate	W. McClave	272,733	Feb. 20	1448	406	23	708
Stove and other sheet-metal pipes	J. Vincent, Jr	274,421	Mar. 20	1513	416	23	1110
Stove and range. Cook	A. E. Chamberlain	269,829	Jan. 2	13	4, 5	23	5
Stove and range. Cooking	N. S. Arnold	284,795	Sept. 11	789	220	24	1043
Stove and range. Cooking	W. A. Spicer	284,916	Sept. 11	928	261	24	1069
Stove and range grate. Adjustable	J. Brower	271,214	Jan. 30	1715	497	23	350
Stove attachment	Z. and E. Hunt	284,017	Aug. 28	1898	532	24	867
Stove-board	A. I. Griggs	279,240	June 12	778	214	23	2266
Stove-board	H. C. Milligan	273,582	Mar. 6	444	119	23	911
Stove-board cover	I. Van Hagen	271,163	Jan. 23	1649	474	23	331
Stove-boards. Process of and apparatus for manufacturing	I. Van Hagen	288,892	Nov. 20	1383	382	25	764
Stove-bracket	J. H. Whissemore	273,653	Mar. 6	528	142	23	924
Stove. Car	K. Fife and J. N. Pickenpaugh	287,268	Oct. 23	1885	516	25	360
Stove. Charcoal	E. M. Stern	282,235	July 31	2409	662	24	441
Stove. Coal	S. H. La Rue	286,315	Oct. 9	680	181, 182	25	133
Stove. Coal-oil	J. W. Brower	271,215	Jan. 30	1716	497	23	350
Stove. Coal-oil	H. Daisley	270,892	Jan. 23	1315	380	23	277
Stove. Cooking	J. W. Allen	286,248	Oct. 9	576	158	25	116
Stove. Cooking	R. E. Burns	290,316	Dec. 18	1173	328	25	1109
Stove. Cooking	N. Cooper and T. E. Conwell	277,009	May 8	622	163	23	1738
Stove. Cooking	C. H. Dunton	270,766	Jan. 16	1166	333, 334	23	243
Stove. Cooking	W. A. Greene	271,626	Feb. 6	52	14, 15	23	449
Stove. Cooking	L. F. Holloway and N. Griswold	283,244	Aug. 14	924	257, 258	24	671
Stove. Cooking	C. Östlund	270,690	Jan. 16	1072	307, 308	23	225
Stove-cover lifter	N. L. Post	272,472	Feb. 20	1114	315	23	650
Stove-door hinge	J. B. Conde and H. C. Marshall	282,170	July 31	2329	642	24	426
Stove-drum	N. B. Acheson	271,758	Feb. 6	207	58	23	476
Stove extinguisher. Car	C. Hittinger	289,657	Dec. 4	355	100	25	950
Stove fire-back	G. A. Way	278,840	June 5	228	67	23	2162
Stove fire-pot	R. Hatchman	283,602	Aug. 21	1365	381	24	759
Stove fire-pot	J. A. Miller	277,050	May 8	679	177	23	1748
Stove. Folding pocket cook	T. W. Houchin	274,330	Mar. 20	1399	383, 384	23	1090
Stove. Gas	E. E. Gold	281,685	July 24	1690	460	24	313
Stove. Gas	W. F. Shaw and A. S. Dinsmore	285,311	Sept. 18	1406	398	24	1162
Stove. Gas	H. H. Sheldon	285,170	Sept. 18	1252	351	24	1132
Stove. Gas	E. Stern	276,302	Apr. 24	1836	511	23	1564
Stove. Gas	I. Van Hagen	288,893	Nov. 20	1385	382	25	764
Stove. Gas	A. H. P. S. Wortley	286,160	Oct. 2	464	126	25	86
Stove. Gas-burning	J. W. Baker	285,376	Sept. 25	1492	420	24	1182
Stove. Gas-generator	N. H. Schilling and H. Bunte	274,829	Mar. 27	2028	564, 565	23	1207
Stove. Gas heating and cooking	J. H. Keyser	276,049	Apr. 17	1520	418	23	1502
Stove-grate	E. E. Bunker	273,251	Mar. 6	11	4	23	836
Stove-grate	D. Elsinger	271,229	Jan. 30	1730	501	23	353
Stove-grate	A. L. Foote	286,411	Oct. 9	795	215	25	155
Stove-grate	J. Hahn	287,537	Oct. 30	2220	602	25	432
Stove-grate. Revolving	C. Kemmerling	283,790	Aug. 28	1604	453	24	815
Stove. Heating	H. C. Bascom	283,953	Aug. 28	1798	509	24	850
Stove. Heating	P. D. Beckwith	289,802	Dec. 11	536	149, 150	25	986
Stove. Heating	J. Dwyer	272,128	Feb. 13	683	196	23	570
Stove. Heating	S. Ingling	289,840	Dec. 11	588	163	25	996
Stove. Heating	J. Kilshaw	273,106	Feb. 27	1932	541	23	799
Stove. Heating	C. L. Ridgway	281,795	July 24	1844	504	24	340
Stove-hood	A. Schwibinger	286,643	Oct. 16	1065	293	25	213
Stove. Hot-blast	F. W. Gordon	278,234	May 22	2109	581	23	2009
Stove. Hot-blast	J. M. Hartman	275,908	Apr. 17	1354	373	23	1474
Stove. Hydrocarbon	A. B. Hutchins. (Reissue)	10,273	Jan. 16	1300	374	23	988
Stove. Hydrocarbon-gas	A. M. Brainard	275,127	Apr. 3	397	91	23	1283
Stove. Lamp	H. J. Reilly	278,740	June 5	92	24	23	2138
Stove. Lamp	J. E. Stephens	286,862	Oct. 16	1360	373	25	961
Stove. Lamp	C. S. West	274,426	Mar. 20	1518	417	23	1111
Stove-leg	L. S. Hoyt	278,433	May 29	2391	652	23	2066
Stove-leg	G. F. Wilson	280,273	June 26	2038	573	23	2495
Stove-lid and pan lifter	W. H. H. Smith	278,369	May 29	2315	633	23	2053
Stove-lid lifter	J. S. Lash	281,278	July 17	1172	324	24	220
Stove-lids. Pattern for molding	W. H. Smith	278,370	May 29	2315	633	23	2053
Stove-lug molds. Device for forming	W. N. Moore	289,685	Dec. 4	388	111	25	955
Stove. Magazine	S. Smyth	286,235	Oct. 9	554	152	25	112
Stove. Oil	C. F. Beaman and W. P. Cragin	272,018	Feb. 13	542	146	23	546
Stove. Oil	A. S. Dinsmore	282,504	Aug. 7	33	10	24	506
Stove. Oil	J. E. Fleming	273,717	Mar. 13	610	164	23	946
Stove. Oil	J. Johnstone	281,515	July 17	1471	404	24	272
Stove. Oil	I. F. Kearns	284,639	Sept. 11	585	164, 165	24	1009
Stove. Oil	J. Marion	278,574	May 29	2557	698	23	2095

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Stove. Oil-	J. McConnell	276,187	Apr. 24	1692	467, 468	23	1540
Stove. Oil-	F. Sloan	276,911	May 1	481	127	23	1710
Stove. Oil-	F. Sloan	285,696	Sept. 25	1873	534	24	1252
Stove. Oil-	A. Velguth	278,063	May 22	1887	517	23	1970
Stove. Oil-	M. W. Walker	288,523	Nov. 13	927	253	25	677
Stove. Oil and gas	E. A. Meysenburg	269,950	Jan. 2	153	45	23	33
Stove. Oil or vapor	R. S. Oliver	281,917	July 24	1993	546	24	366
Stove. Open-grate	E. Brown	273,456	Mar. 6	279	75	23	861
Stove or furnace	W. Masters	274,130	Mar. 20	1142	314, 315	23	1045
Stove or range	J. A. Price	284,230	Sept. 4	95	26	24	921
Stove or range. Cooking	F. L. C. Anderson	273,004	Feb. 27	1802	504	23	776
Stove or range. Cooking	J. A. Price	278,267	May 22	2155	592	23	2016
Stove ornament	W. L. McDowell	280,005	June 26	1947	547	23	2479
Stove oven-door. Cooking-	W. A. Spicer	278,057	May 22	1882	515	23	1970
Stove oven. Oil and gas	C. F. Whorf	271,670	Feb. 6	101	27	23	437
Stove ovens. Attachment for cooking-	E. L. Maranville	274,009	Mar. 13	981	269	23	1010
Stove-ovens. Turn-table for	E. L. Maranville	286,029	Oct. 2	305	85	25	57
Stove. Parlor	J. Jamieson	282,085	July 31	2206	606, 607	24	407
Stove. Parlor heating-	J. Van Wormer	274,677	Mar. 27	1854	516	23	1177
Stove-pipe. Adjustable	D. A. Smith	278,617	May 29	2611	711	23	2104
Stove-pipe and chimney attachment	J. M. Egnor	287,258	Oct. 23	1873	513	25	358
Stove-pipe cleaner	G. and J. Rasgorshek	284,897	Sept. 11	899	254	24	1065
Stove-pipe elbow	J. P. Barker	287,494	Oct. 30	2170	589	25	431
Stove-pipe drum, shelf, and damper. Combined	W. L. Hess	272,048	Feb. 13	576	156	23	552
Stove-pipe fastener	B. D. Campbell	275,586	Apr. 10	935	254	23	1394
Stove-pipe fastener	A. Huttinger	275,660	Apr. 10	1039	281	23	1412
Stove-pipe fastening	S. E. Shute and J. C. Albright	274,835	Mar. 27	2036	567	23	1209
Stove-pipe fitting and fastening	F. Kaltwasser	278,798	June 5	166	49	23	2151
Stove-pipe-fitting device	M. J. Robinson	278,599	May 29	2584	705	23	2100
Stove-pipe holder	F. S. Gulick	285,748	Sept. 25	1951	551	24	1264
Stove-pipe section	C. P. Kramer	279,873	June 19	1553	434	23	2403
Stove-pipe shelf	W. A. Bowyer and J. E. Elliott	283,959	Aug. 28	1803	510	24	851
Stove-pipe shelf	J. Kurtis	277,294	May 8	977	262	23	1800
Stove-pipe shelf	S. F. Seely	283,822	Aug. 28	1639	462	24	821
Stove-pipe shelf	A. W. Stossmeister	284,256	Sept. 4	125	35	24	936
Stove-pipe thimble	M. McGuire	281,710	July 24	1726	469	24	319
Stove-pipe thimble	E. S. Sweetser	280,890	July 10	669	189	24	125
Stove-pipe thimble	G. W. Tubbs	279,205	June 12	741	203	23	2260
Stove-pipe thimble	H. E. Wieber	290,157	Dec. 11	965	273	25	1065
Stove-pipe thimble and flue-stopper	F. J. Karleskind	276,597	May 1	69	19	23	1639
Stove plate and frame fastener	W. L. McDowell	281,096	July 10	929	259	24	171
Stove-plates. Device for forming dovetails for	N. Burdick and J. A. Sandford	273,252	Mar. 6	13	4	23	837
Stove-platform	A. C. Stoessiger	281,208	July 10	1080	297	24	197
Stove reservoir. Cooking-	J. L. Natches	285,502	Sept. 25	1641	461, 462	24	1208
Stove-shelf	J. Wenzel	281,949	July 24	2031	555	24	373
Stove-shelf	L. A. White	279,620	June 19	1254	348	23	2351
Stove-shelf	W. J. Wood	279,068	June 5	558	153	23	2219
Stove. Smoke-consuming	E. L. Dodge	285,397	Sept. 25	1520	428	24	1186
Stove stand. Oil-	F. Baier	272,620	Feb. 20	1309	365	23	684
Stove-support	G. H. Phillips	270,978	Jan. 23	1430	412	23	295
Stove, table, and cabinet. Combined	L. V. Pierce	279,276	June 12	822	228	23	2274
Stove-top	E. B. Finch	286,536	Oct. 9	942	254	25	182
Stove top and cover	W. H. Noyes	278,170	May 22	2027	557	23	1994
Stove. Vapor-	J. H. Bean	282,037	July 31	2137	587	24	396
Stove. Vapor-	Z. Davis. (Reissue)	10,355	July 10	1103	304	24	202
Stove. Vapor-	H. A. Dow	288,216	Nov. 13	524	146	25	608
Stove. Vapor-	C. A. Koehler	281,375	July 17	1294	358	24	241
Stove. Vapor-	P. Martin	275,058	Apr. 3	230	63	23	1265
Stove. Vapor-	W. C. North	272,462	Feb. 20	1103	312	23	648
Stove. Vapor-	J. H. Shepherd and H. H. Beuschoten.	278,752	June 5	96	27	23	2140
Stove. Vapor-burning cooking-	J. K. Thomas	271,158	Jan. 23	1641	479	23	330
Stove ventilator. Cooking-	J. F. Linscott	272,720	Feb. 20	1431	401	23	705
Stoves, &c. Burner for vapor-	W. Holt	283,395	Aug. 21	1121	317	24	715
Stoves. Coffee and peanut roasting attachment for	M. M. Robbins	274,225	Mar. 20	1263	348	23	1067
Stoves. Elevated reservoir, warming-oven, and shelf for	E. C. and V. Strayer	279,456	June 12	1059	293	23	2311
Stoves. Flat-iron attachment for oil-	I. F. Kearns	272,059	Feb. 13	592	160	23	554
Stoves, &c. Oil-reservoir for oil-	S. T. McDougall	287,557	Oct. 30	2247	610	25	437
Stoves. Safety-casing for railway-car	B. D. Stevens	277,854	May 15	1636	445, 446	23	1921
Stoves. Steam heating attachment for	W. H. Pratt	272,768	Feb. 20	1492	420	23	716
Stoves. Thermometer attachment for	S. Raymond	282,770	Aug. 7	358	100	24	562
Stoves. Top-cover for kerosene, gas, and other	W. H. Noyes	279,421	June 12	1019	283	23	2305
Strainer for eaves-spouts	G. W. Van Tassel	269,473	Dec. 4	123	35	25	908
Strainer for tea and coffee pots	E. F. Haskell	286,813	Oct. 16	1297	352	25	251
Strainer for water-faucets	G. F. Barrington	275,978	Apr. 17	1432	395	23	1489
Strainer. Milk-	H. Haak	282,189	July 31	2355	649	24	430
Straining-beam	B. F. Davis	284,824	Sept. 11	890	228	24	1050
Straining-machine	T. R. Ryan	277,789	May 15	1560	425	23	1908
Strands. Machine for confining	G. Doolittle and H. D. Stanley	289,077	Nov. 27	1614	447	25	813
Strap: *See* Boot-strap. Hitching-strap. Overshoe-strap. Shawl-strap. Thill-strap. Trunk-strap.							
Strap-fastener	A. J. Aldrich	270,922	Jan. 23	1354	390	23	283
Strap. Metallic mercantile bundling-	G. T. Parry	290,351	Dec. 18	1217	342	25	1117
Strap or buckle fastening	F. A. Neider	288,358	Nov. 13	714	195	25	640
Straps to buckles, &c. Device for securing	C. H. Allen	285,200	Sept. 18	1283	361	24	1139

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Straw and other board. Machine for lining	G. Munro	278,448	May 29	2410	657	23	2070
Straw braid	H. Friend	272,229	Feb. 13	799	222	23	590
Straw-burning boiler	J. Stevens	271,148	Jan. 23	1626	467	23	328
Straw-carrier	J. Ridenour	278,457	May 29	2424	660	23	2072
Straw-cutter	J. A. Brooks	284,175	Sept. 4	21	5	24	908
Straw-cutter	J. N. Slaughenhaup	273,619	Mar. 6	485	130	23	917
Straw-stacker	A. H. Allison	277,400	May 8	1094	294	23	1821
Straw-stacker	A. H. Allison	289,204	Nov. 27	1767	490	25	840
Straw-stacker	E. Anderson	275,453	Apr. 10	773	207	23	1366
Straw-stacker	W. H. Anderson	285,339	Sept. 18	1436	406	24	1167
Straw-stacker	L. W. Berger, E. A. Peters, and O. P. Chaney.	271,404	Jan. 30	1959	566	23	394
Straw-stacker	J. J. Cox	290,975	Dec. 25	2054	565	25	1267
Straw-stacker	J. M. Crawford and T. B. Kirkwood	273,470	Mar. 6	298	81	23	884
Straw-stacker	A. Davis	278,891	June 5	294	85	23	2173
Straw-stacker	R. Gowdy	285,747	Sept. 25	1950	551	24	1264
Straw-stacker	W. H. Grove and G. H. Steely	278,131	May 22	1978	543	23	1986
Straw-stacker	F. F. Hartwich	277,720	May 15	1478	400	23	1892
Straw-stacker	L. W. Hasselman	274,940	Apr. 3	72	20	23	1238
Straw-stacker	L. W. Hasselman	290,050	Dec. 11	842	239	25	1042
Straw-stacker	L. W. Hasselman. (Reissue)	10,347	July 3	548	152, 153	24	97
Straw-stacker	C. Leffingwell	277,750	May 15	1515	411	23	1899
Straw-stacker	I. C. Lindley	274,905	Mar. 20	1228	338	23	1061
Straw-stacker	J. H. and D. Meltzer and J. J. Baker	282,210	July 31	2378	654	24	435
Straw-stacker	C. E. Merrifield	272,572	Feb. 20	1252	349	23	674
Straw-stacker	J. J. Moore	284,317	Sept. 4	195	55	24	937
Straw-stacker	J. J. Moore. (Reissue)	10,315	Apr. 10	1222	334	23	1442
Straw-stacker	K. K. Parker	286,060	Oct. 2	344	96	25	64
Straw-stacker	J. W. Perkinson and C. E. Merrifield	275,941	Apr. 17	1392	383	23	1481
Straw-stacker	M. T. and A. B. Reeves	284,234	Sept. 4	100	27	24	921
Straw-stacker	J. F. and W. N. Springer	287,882	Nov. 6	115	34	25	528
Straw-stacker. Portable	A. Cossel	284,280	Sept. 4	153	42	24	930
Straw-stacker. Portable	S. H. Garver	288,224	Nov. 13	536	149	25	610
Straw-stackers. Clamp for securing turn-tables for	L. W. Hasselman	290,049	Dec. 11	841	238	25	1042
Straw-stackers. Folding conveyer-chute for	J. J. Moore	274,632	Mar. 27	1799	500	23	1167
Straw-stacking machine	C. E. Merrifield	274,134	Mar. 20	1145	316	23	1045
Straw-stacking machine	C. E. Merrifield	287,844	Nov. 6	63	19	25	518
Straw-stacking machine	M. T. and A. B. Reeves	272,155	Feb. 13	710	195	23	575
Straw-stacking machine	H. S. Stone and J. M. F. Shepler	271,943	Feb. 6	433	119	23	517
Straw-stacking machine	W. C. Swindler	277,080	May 8	723	189	23	1755
Straw-stacking machine	W. C. Swindler	282,799	Aug. 7	389	110	24	568
Straw-stacking machine	G. W. Williamson	274,540	Mar. 27	1692	469, 470	23	1147
Straw-stacking machine	G. W. Williamson	281,654	July 17	1647	449	24	299
Straw to be converted into paper-stock, &c. Preparing	T. New	290,913	Dec. 25	1957	.....	25	1253
Street-sprinkling apparatus	H. Flad	288,222	Nov. 13	531	148	25	609
Street-subway	O. D. Orvis and N. B. Adams	288,730	Nov. 20	1194	326	25	729
Street-sweeper	F. F. and J. C. Bioren	280,008	June 26	1723	483	23	2439
Street-sweeping machine	J. S. Goldsmith	269,847	Jan. 2	34	11	23	9
Street-sweeping machine	C. Z. O'Neill	270,834	Jan. 16	1244	359	23	258
Street-sweeping machine	P. Ryan	271,993	Feb. 6	504	136	23	527
Street-sweeping machine	A. Stackpole, Jr	287,186	Oct. 23	1782	488, 489	25	343
Street-sweeping machine	G. E. Woodbury	274,164	Mar. 20	1184	326	23	1053
Stretcher	W. H. Johnstone	273,287	Mar. 6	52	16	23	843
Stretcher-frame	A. D. Shattuck	272,162	Feb. 13	718	197	23	576
Striping pails, tubs, &c. Machine for	C. Hoffmann	290,329	Dec. 18	1191	334	25	1112
Strontium carbonates. Manufacture of	H. Grouven	280,172	June 26	1909	.....	23	2473
Strontium. Obtaining carbonate of	D. Sidersky and H. Probst	278,283	May 22	2172	598	23	2019
Structures. Apparatus for erecting and supporting colossal	J. C. Goodridge, Jr	289,644	Dec. 4	338	94, 95, 96	25	947
Structures with béton or concrete. Repairing	J. C. Goodridge, Jr	271,234	Jan. 30	1736	502	23	354
Stud for shirts, &c	P. F. Allen	288,293	Nov. 13	623	170	25	624
Stud shield. Shirt	D. W. Wilkins	276,741	May 1	275	70	23	1671
Stud-wrench	J. H. Pollard	282,768	Aug. 7	356	100	24	562
Stuffing-box for journals	J. W. Wilbraham	272,819	Feb. 20	1557	437	23	728
Stuffing-box for valve-stems, &c	W. Haas	275,484	Apr. 10	816	221	23	1374
Stuffing-box or packing-chamber	S. Fox	279,642	June 19	1283	356	23	2356
Stuffing-machine	F. Benoit	286,171	Oct. 9	478	132, 133	25	99
Stump and grub puller	D. Cornelius	277,117	May 8	766	901, 902	23	1763
Stump-extractor	D. Cornelius	287,002	Oct. 23	1546	426	25	298
Stump-extractor	H. B. Hawes	277,484	May 15	1202	323	23	1846
Stump-extractor	W. Smith	278,620	May 29	2616	714	23	2105
Stump-machine	W. H. Hamilton	272,957	Feb. 27	1748	488	23	766
Stump-puller	R. Greeley	275,644	Apr. 10	1021	275	23	1408
Stump-puller	R. J. Hosner	285,898	Oct. 2	152	43	25	30
Stump-puller	H. P. Reading	275,855	Apr. 17	1292	355	23	1462
Stump-puller	W. A. Tucker	276,506	Apr. 24	2098	583	23	1610
Stump-pulling machine	O. A. Anthony	287,606	Oct. 30	2331	629	25	452
Subaqueous boring. Apparatus for	T. English	286,797	Oct. 16	1281	346	25	247
Submarine boat	J. Jopling	273,851	Mar. 13	792	215	23	978
Sucker-rod	D. Jones	273,234	Feb. 27	2091	586	23	827
Sucker-rod extractor for oil and other wells	L. R. Hitchcock and J. W. Lufkin	280,314	June 26	2089	588	23	2504
Suction-ventilator	E. S. Radcliff	272,583	Feb. 20	1262	352	23	675
Sugar and apparatus employed therein. Manufacture and treatment of	J. Duncan and B. E. R. Newlands	278,110	May 22	1942	533	23	1980
Sugar, &c. Apparatus for stirring, mixing, and melting	G. M. Newhall	276,065	Apr. 17	1538	423	23	1506
Sugar-cane. Apparatus for coagulating the albuminous matters contained in	C. Blandin	287,902	Nov. 6	141	41	25	533

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Sugar-cane, &c. Machine for defecating and clarifying the juices of	H. A. Weber and M. A. Scovell	285,938	Oct. 2	206	58	25	40
Sugar. Crystallizing grape-	W. Robinson	270,099	Jan. 16	1085	.....	23	227
Sugar-evaporator	R. D. Shindelbower and H. Pressler	279,450	June 12	1053	291	23	2310
Sugar-evaporator	D., C. W., and D. H. Smouse	272,093	Feb. 13	633	172	23	561
Sugar from molasses, sirups, or the juices of plants, &c. Extracting	C. Steffen	277,521	May 15	1243	.....	23	1892
Sugar from molasses, sirups, &c. Separating	C. Scheibler	279,446	June 12	1050	.....	23	2310
Sugar from sugar-cane, sorghum, maize, &c. Manufacture of	O. B. Jennings	287,544	Oct. 30	2229	605, 606	25	434
Sugar in ingots. Apparatus for the manufacture of	G. and J. Lebaudy	270,818	Jan. 16	1228	355	23	255
Sugar. Machine for cutting, granulating, and disintegrating blocks or cakes of	C. C. Miller	273,875	Mar. 13	825	224	23	983
Sugar. Manufacture of effervescent	H. Michaelis	284,464	Sept. 4	370	.....	24	966
Sugar. Manufacturing	J. A. Morrell	280,943	July 10	754	.....	24	139
Sugar. Manufacturing crystallized grape-	T. Norton	285,654	Sept. 25	1820	.....	24	1262
Sugar. Method of and apparatus for converting amylaceous and ligneous substances into grape-	A. C. Landry and C. Lauga	278,562	May 29	2544	694	23	2083
Sugar-mixing apparatus	J. H. Brookmire	278,392	May 29	2339	640	23	2057
Sugar-producing plants. Defecating the juices of	H. A. Weber and M. A. Scovell	285,939	Oct. 2	207	.....	25	40
Sugar, salt, &c. Apparatus for the manufacture of	J. A. Cook	277,833	May 15	1608	439	23	1916
Sugar, sirups, molasses, &c. Bleaching, defecating, and preserving	N. H. Darton and D. D. Williamson	278,104	May 22	1937	.....	23	1979
Sugars. Centrifugal machine for treating sorghum and other	R. B. Palmer	277,155	May 8	817	215	23	1772
Sulky	D. Berry	280,561	July 3	969	74	24	48
Sulky	T. Boettcher	274,167	Mar. 20	1189	327	23	1054
Sulky	D. E. Chandler and J. C. Williams	275,143	Apr. 3	345	95	23	1286
Sulky	P. F. Dean	285,238	Sept. 18	1328	374	24	1147
Sulky	O. O. Newberry	283,916	Aug. 28	1746	493	24	840
Sulky	W. Yeoman and E. M. Drum	272,397	Feb. 13	1017	284	23	627
Sulky. Adjustable-frame	J. Caley	287,622	Oct. 30	2352	634	25	456
Sulky. Pole-	W. A. Ostmire	283,722	Aug. 21	1509	425, 436	24	787
Sulky-spring	I. A. Wesson	275,445	Apr. 10	765	204	23	1365
Sulphides. Treating	C. A. Stetefeldt	287,737	Oct. 30	2502	.....	25	465
Sunshade. Shoulder-	R. Ray	288,115	Nov. 6	403	114	25	577
Superheater	J. R. Moore	271,651	Feb. 6	80	22	23	454
Superheater. Steam-	M. Gross	284,958	Sept. 11	979	275, 276	24	1079
Superheaters. Maintaining high pressure in	D. Renshaw	282,772	Aug. 7	359	101	24	563
Superheaters. Maintaining pressure in	D. Renshaw	282,774	Aug. 7	361	102	24	563
Superheaters. Maintaining pressure in	D. Renshaw	285,843	Oct. 2	75	22	25	15
Superheating-pipes. Protecting	M. Gross	272,537	May 29	2516	686	23	2088
Superheating steam and heating air. Apparatus for	S. N. Carvalho	270,281	Jan. 9	540	159	23	115
Supporter: *See* Abdominal supporter. Bedstead-slat supporter. Garment-supporter. Hat and bonnet supporter. Hose-supporter. Rail-supporter. Sleeve-supporter. Stocking-supporter. Uterine supporter.							
Suppositories. Composition for	A. Larsen	273,552	Mar. 6	402	.....	23	903
Suppositories. Machine for making	W. A. Long	286,719	Oct. 16	1185	319, 320	25	230
Surcingle	C. C. Maltby and J. F. Sabine	274,801	Mar. 27	1997	555	23	1202
Surface-gage	E. A. Darling	275,892	Apr. 17	1337	368	23	1471
Surface-gage	S. E. Waterman and F. H. Kelley	273,784	Mar. 13	711	192	23	964
Surge-reliever	W. C. Fuller	272,874	Feb. 27	1649	461	23	751
Surgeon's operating-chair	F. A. Krill	278,241	May 22	2118	583	23	2016
Surgical and invalid chair. Adjustable	J. Poolman and F. R. Marks	278,818	June 5	187	54, 55	23	2154
Surgical and medical dressing. Manufacture of fabrics for	S. Gamgee	283,624	Aug. 7	180	.....	24	532
Surgical bandage	S. M. Furman	283,478	Aug. 21	1221	343	24	732
Surgical chair	F. Bohsert	290,841	Dec. 25	1870	516	25	1237
Surgical chair	F. E. Young	289,743	Dec. 4	467	131, 132	25	988
Surveying inaccessible heights, &c. Instrument for	M. Farley	288,321	Nov. 13	661	183	25	631
Surveying-instrument	C. W. Stickney	272,494	Feb. 20	1149	323	23	656
Surveying instruments. Attachment for transits and other	R. Gibbons	275,034	Apr. 3	204	55	23	1980
Surveyor's steel chain-tape and reel	F. J. Sager	279,190	June 12	726	199	23	2257
Suspender attachment	A. M. Freeman	287,819	Nov. 6	36	11	25	513
Suspender-end	H. B. Ditwiler	277,997	May 22	1814	495	23	1957
Suspender-end	J. Kaffenberg	290,061	Dec. 11	855	242	25	1044
Suspender-end	A. Netzner	285,650	Sept. 25	1817	518	24	1242
Suspender-end	C. C. Shelby	273,768	Mar. 13	692	186	23	960
Suspender-end	C. C. Shelby	273,769	Mar. 13	693	186	23	961
Suspender-end	C. C. Shelby	280,964	July 10	777	215	24	143
Suspender-end	M. Silberstein	276,909	May 1	479	126	23	1710
Suspender-hook	H. M. Heineman	276,244	Apr. 24	1763	491	23	1553
Suspender-loop	G. F. Atwood	275,975	Apr. 17	1429	394	23	1488
Suspenders	J. A. Adamson	279,306	June 12	858	238	23	2279
Suspenders	M. Altmann	288,755	Nov. 20	1723	334	25	734
Suspenders	G. F. Atwood	290,958	Dec. 25	2020	557	25	1262
Suspenders	C. D. Cheesman	276,352	Apr. 24	1908	530	23	1577
Suspenders	A. M. Freeman	287,818	Nov. 6	34	10, 11	25	513
Suspenders	W. A. Laverty	276,834	May 1	390	103	23	1694
Suspenders	W. A. Laverty	282,736	Aug. 7	320	91	24	556
Suspenders	M. Marcus	289,429	Dec. 4	69	20	25	899
Suspenders	B. Petchaft	277,776	May 15	1547	421	23	1905
Suspenders	T. O. Potter	280,859	July 10	645	182	24	120
Suspenders	W. B. Pratt	286,958	Oct. 16	1485	407	25	228

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Suspension device	H. R. Heyl	284,129	Aug. 28	2036	566	24	890
Suspension-hook	S. J. Fletcher	279,236	June 12	774	213	23	2365
Suspension-hook	G. A. Schlechter	285,435	Sept. 25	1566	441	24	1194
Suspension-wrench for gas and other cocks	I. W. Hevsinger	275,042	Apr. 3	211	57	23	1262
Swamp and grab hook	A. M. Millard	290,785	Dec. 25	1799	497	25	1226
Sweeping apparatus. Pneumatic	E. S. Leaycraft	279,572	June 19	1205	333	23	2342
Sweeping-machine	E. G. Passmore	283,415	Aug. 21	1142	323	24	719
Swimmers. Device for aiding	B. Bloch	281,005	July 10	822	229	24	152
Swimming-bath. Tide-water	J. Ennis	270,293	Jan. 9	554	163	23	118
Swing	I. N. Forrester	283,388	Aug. 21	1114	315	24	713
Swing	C. L. Gelineau	270,656	Jan. 16	1027	295	23	217
Swing	W. Hyde	277,902	May 22	1698	463	23	1938
Swing	B. Tully	282,934	Aug. 7	540	152 / 153	24	596
Swing	H. J. White	281,216	July 10	1089	300	24	199
Swing	C. W. Young	270,872	Jan. 16	1286	371	23	265
Swing and chair. Combined	M. Ingersoll	289,267	Nov. 27	1834	506	25	854
Swing. Child's	A. G. Forster	275,899	Apr. 17	1345	370	23	1472
Swinging gate	G. King	272,061	Feb. 13	595	161	23	555
Swinging stand and rest. Automatic	E. Fletcher	285,119	Sept. 18	1187	333	24	1121
Switch: *See* Automatic switch. Electric switch. Electric-light switch. Interlocking switch. Lamp-switch. Railway-switch. Railway safety-switch. Split switch. Store-track switch. Telephone-switch. Telephone-exchange switch.							
Switch and signal connections. Deflection-stand for	A. G. Cummings	271,608	Feb. 6	30	8	23	446
Switch and signal levers. Electric locking mechanism for	O. Gassett	283,231	Aug. 14	905	252 / 253	24	668
Switch-closer. Automatic	C. L. Northrup	283,721	Aug. 21	1508	425	24	796
Switch guard. Safety	H. Harmer	289,254	Nov. 27	1819	503	25	851
Switch lever and rod	H. M. Harper	275,336	Apr. 3	594	159	23	1327
Switch-lock	D. P. Driscoll and J. H. Dugan	271,435	Jan. 30	1999	577	23	401
Switch-lock	D. H. Speer	276,089	Apr. 17	1569	432	23	1511
Switch-operator	J. H. Kennedy and T. P. Hall	288,577	Nov. 13	992	273	25	689
Switch-signal. Automatic	A. L. Wilkinson	289,739	Dec. 4	462	130	25	967
Switch-stand	J. Brahn	273,450	Mar. 6	270	72	23	879
Switch-stand. Automatic	O. J. True and H. H. Houghton	271,999	Feb. 6	510	137	23	528
Switch stand. Safety	G. W. Horne	290,194	Dec. 11	1006	283	25	1072
Swivel-coupling	J. P. Warner	276,203	Apr. 24	1715	474	23	1544
Syringe	M. Dittenhoefer	285,978	Oct. 2	248	70	25	47
Syringe	G. W. Goodner	289,528	Dec. 4	196	55	25	921
Syringe	O. Hendrick	277,568	May 15	1306	350	23	1862
Syringe	R. Lockwood	273,373	Mar. 6	178	48	23	864
Syringe	P. J. McElroy	288,828	Nov. 20	1308	358	25	750
Syringe eduction-tube	T. J. Mayall	286,041	Oct. 2	322	90	25	59
Syringe. Hypodermatic	F. S. Grant	286,605	Oct. 16	1036	280	25	204
Syringe-piston	J. B. Wortham	282,144	July 31	2294	630	24	421
Syringe. Vaginal	C. L. Jensen	287,681	Oct. 30	2419	652	25	470
Table: *See* Adjustable table. Billiard-table. Card-table. Dining-table. Drawing-table. Duplex writing-table. Extension-table. Folding table. Game-table. Hat-blocking table. Ironing-table. Knockdown table. Library-table. Machine-table. Operating-table. Ore-concentrating table. Planing-machine table. Potter's table. Printer's correcting-table. Saw-table. Sewing-machine table. Starch-table. Tile-machine table. Toy ten-pin table. Work-table.							
Table	D. Kelly	274,614	Mar. 27	782	495	23	1163
Table	T. R. Price	285,362	Sept. 18	409	413	24	1171
Table	A. von der Wulbeke	279,290	June 12	836	232	23	2276
Table and cupboard. Combined	J. H. Bartine	285,208	Sept. 18	1291	363	24	1140
Table and desk. Combined	S. T. Corbitt	290,862	Dec. 25	1895	523	25	1242
Table and mirror	G. W. Simonds	290,361	Dec. 18	1228	346	25	1119
Table and radiator. Combination	M. R. Spelman	273,905	Mar. 13	857	232	23	988
Table-frame former	J. A. Conover	289,623	Dec. 4	310	86, 87	25	942
Table-leaf support	P. Bradford	270,006	Jan. 2	214	62	23	52
Table-leaf support	H. J. Durgin	279,231	June 12	768	212	23	2264
Table-leaf support	E. Mets	282,350	July 31	2557	701	24	466
Table-leaf support	D. Shuler	279,986	June 26	1693	475	23	2434
Table-leg	A. M. Seymour	284,764	Sept. 11	749	208	24	1037
Table-leg	D. N. Smith and J. B. Raynor	290,128	Dec. 11	935	265	25	1060
Table-leg. Detachable	J. C. Smith	271,143	Jan. 23	1619	466	23	326
Table-leg fastening	H. Rose	275,274	Apr. 3	500	138	23	1311
Table-legs. Device for securing	A. S. Robinson	280,401	July 3	76	21	24	16
Table-legs. Machine for channeling	H. J. Durgin	284,193	Sept. 4	41	12, 13	24	912
Table-top. Revolving	A. C. Fowler	271,054	Jan. 23	1515	436	23	309
Tables, &c. Covering for	C. H. Tyler	279,110	June 5	631	171	23	2230
Tablet and instrument-case. Combination of drawing.	W. P. Kidder	284,131	Aug. 28	2038	566	24	891
Tablet and tablet-cover	R. McCurdy	283,006	Aug. 14	636	180	24	619
Tablet. Blotter	W. Bancroft	272,188	Feb. 13	747	206	23	581
Tablet for teaching penmanship	E. L. Requa	274,031	Mar. 13	1005	275	23	1014
Tablet. Writing-paper	L. G. Reynolds	289,933	Dec. 11	697	196	25	1015
Tachometer	C. H. Prüsmann	288,593	Nov. 13	1013	278	25	693
Tack-heads. Machine for trimming and shaping	H. R. Packard	289,023	Nov. 27	1546	426 / 427	25	800
Tacking or nailing apparatus. Hand	L. Goddu	287,375	Oct. 23	2016	549	25	384

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Tacks, &c., with copper. Surfacing	E. S. Morton	292,754	Aug. 7	338	.....	24	559
Tag	C. R. Crane	276,888	June 5	299	83	23	2173
Tag	E. W. Thompson	271,378	Jan. 30	1927	557	23	387
Tag. Address or shipping	A. S. Pennington	270,108	Jan. 2	321	95	23	65
Tag and envelope. Combined	J. T. Dunham	277,245	May 8	918	246	23	1790
Tag-attaching device	J. W. Tuttle	283,169	Aug. 14	899	231	24	653
Tag. Bottle-	N. K. Stanly	275,432	Apr. 10	750	200	23	1362
Tag. Bottle-	N. K. Stanly	276,298	Apr. 24	1828	509	23	1563
Tag-fastener	M. Alshuler	284,706	Sept. 11	674	190	24	1024
Tag-fastener	G. N. Buck	286,112	Oct. 2	409	112	25	75
Tag for wall-paper, &c	F. H. Shepherd and J. W. Meyer	279,192	June 12	728	200	23	2258
Tag-holders. Machine for forming	G. H. Scharf	283,027	Aug. 14	662	186	24	625
Tag. Jeweler's	J. Wiesbauer	278,674	May 29	2681	734	23	2117
Tag. Metallic	E. J. Brooks	278,214	May 22	2084	574	23	2004
Tag or ticket fastener	H. H. Cauffman	273,708	Mar. 13	602	162	23	945
Tag. Pin-	O. J. Cohn	290,537	Dec. 18	1476	408	25	1162
Tag. Price-	Z. T. Hall	286,430	Oct. 9	818	222	25	159
Tag. Shipping-	W. F. Edwards	276,166	Apr. 24	1669	461	23	1536
Tag. Shipping-	W. F. Edwards	276,167	Apr. 24	1670	461	23	1536
Tag. Shipping-	T. E. Lewis	274,348	Mar. 20	1422	390	23	1095
Tailor's shears	L. Kully	280,047	June 26	1777	498	23	2448
Tally-board	W. Brown	283,750	Aug. 28	1556	439	24	807
Tally. Grain-	J. E. Fellers	280,163	June 26	1900	535	23	2471
Tamping-bar	G. D. Hayden	290,422	Dec. 18	1394	367	25	1135
Tan-bark. Preparing	B. Holbrook	284,738	Sept. 11	716	200	24	1032
Tan-vat	G. Ruemelin	276,634	May 1	111	30	23	1646
Tan-vat agitator	J. Head	281,061	July 10	888	247	24	164
Tan-vat and wheel. Combined	D. Halsey, Jr	278,331	May 29	2260	619	23	2043
Tank: *See* Acid-tank. Cream-transportation tank. Flushing-tank. Gas-tank. Hatter's tank. Measuring-tank. Oil-tank. Portable tank. Rendering-tank. Tempering-tank. Water-tank. Water-closet tank.							
Tank	M. Fleisher	284,402	Sept. 4	296	84	24	954
Tannin extracts. Clarifying	P. Gondolo	283,881	Aug. 28	1707	.....	24	832
Tanning	A. J. and J. E. Weeks	289,588	Dec. 4	272	.....	25	935
Tanning composition	E. Logue, M. T. Jones, and C. E. Morrill.	283,798	Aug. 28	1612	.....	24	817
Tanning hides. Apparatus for	E. R. Locke	278,981	June 5	446	122	23	2199
Tanning hides. Composition for	J. F. Cranford	271,804	Feb. 6	263	.....	23	487
Tanning hides, skins, &c. Machine for expeditiously	B. D. Hyam	290,885	Dec. 25	1922	531, 539	25	1947
Tanning leather. Machine for	B. D. Hyam	274,336	Mar. 20	1405	385, 386, 387	23	1091
Tap	W. H. Goodwin	272,425	Feb. 20	1062	299	23	640
Tap and faucet	I. N. Gregg and E. Briody	279,745	June 19	1400	391	23	2377
Tap and faucet	P. Larkin	288,457	Nov. 13	850	230	25	663
Tap. Barrel-	T. Watkins	290,722	Dec. 25	1723	475	25	1912
Tap. Beer-	W. C. Boone and W. A. Whitfield	277,872	May 22	1665	454	23	1932
Tap. Bottle-	J. W. Colcord	280,798	July 10	579	161, 162	24	109
Tap. Expanding	J. O. Morse	284,290	Sept. 4	82	23	24	919
Tap for cutting spiral wedge-nuts	H. A. Harvey	274,492	Mar. 27	1631	452	23	1137
Tap for steam and gas fittings	L. D. Castle	284,377	Sept. 4	963	73, 74	24	949
Tap-wrench	M. S. Brooks	272,408	Feb. 20	1040	291	23	637
Tap-wrench	R. F. Rice	272,478	Feb. 20	1128	317	23	652
Tap-wrench	A. J. Smart	277,430	May 8	1133	305	23	1827
Tapping and facing machine	F. H. Richards	277,611	May 15	1355	365	23	1870
Tapping. Apparatus for raising barrels or kegs for	G. S. Lavendol	289,664	Dec. 4	302	102	25	951
Tapping beer and other barrels. Device for	J. F. Davey	289,075	Nov. 27	1612	446	25	812
Tapping gas and water mains. Device for	D. Lennox	284,746	Sept. 11	725	202, 203	24	1033
Tapping steam, gas, and water fittings. Machine for	L. D. Castle	280,575	July 3	263	78	24	51
Target	F. Medart	271,647	Feb. 6	76	21	23	453
Target. Archery-	J. W. C. Alday	275,111	Apr. 3	301	83	23	1278
Target-balls. Apparatus for filling	P. J. and E. A. Jarre	279,391	June 12	986	274	23	2299
Target-balls. Composition for	G. Westerman, Jr., and W. T. Miller	290,296	Dec. 18	1145	321	25	1104
Target. Flying	A. H. Bogardus	288,000	Nov. 6	271	76	25	554
Target. Flying	L. Fey	286,800	Oct. 16	1284	347	25	948
Target. Flying	N. Fischer	281,183	July 10	1046	289	24	192
Target. Flying	D. A. Johnson	282,000	July 24	2069	573	24	382
Target. Flying	F. J. Moyer	290,788	Dec. 25	1801	498	25	1926
Target. Flying	A. Woeber	287,965	Nov. 6	252	72	25	551
Target. Flying	B. F. Wright	276,125	Apr. 17	1618	445	23	1519
Target-trap	B. F. Wright	276,124	Apr. 17	1616	445	23	1519
Tassel	J. O. Remington	277,609	May 15	1353	364, 365	23	1869
Tea-chests. Attachment for emptying	M. L. Gage	280,168	June 26	1904	536	23	2472
Tea-kettle	E. M. Brewster	279,635	June 19	1276	354	23	2355
Tea-kettle	W. S. Liscomb	278,569	May 29	2552	696	23	2094
Tea-kettle	C. J. Schoening	283,287	Aug. 14	977	273	24	662
Tea-kettle handle	I. Woeppel	290,956	Dec. 25	2018	557	25	1962
Tea or coffee pot	T. A. Brown	285,731	Sept. 25	1927	546	24	1260
Tea or coffee pot	E. Krippendorf	276,976	May 1	576	151	23	1725
Tea-pot	J. Mitchell	275,246	Apr. 3	462	129	23	1305
Tea-pot. Earthenware	E. Bennett	273,221	Feb. 27	2073	582	23	895
Teaching drawing. Card for	J. A. Newman	282,659	Aug. 7	221	65	24	538
Teaching. Puzzle-card for object	S. Lyman	274,799	Mar. 27	1995	555	23	1209
Teams. Device for checking runaway	C. J. Dexter	282,860	Aug. 7	462	131	24	582
Teeth. Device for regulating	J. J. R. Patrick	274,367	Mar. 20	1447	397	23	1098

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Teeth for reception of artificial dentures. Preparing roots of	C. M. Richmond	277,943	May 22	1741	475	23	1944
Teeth. Preparing and treating	C. M. Richmond	277,935	May 22	1736	.....	23	1944
Teeth. Sample-card of artificial	A. S. Robinson	290,933	Dec. 25	1989	549	25	1258
Teeth to artificial gums and flask for the same. Securing	F. W. Seabury	271,370	Jan. 30	1919	555	23	386
Tele-thermoscope. Electric	W. S. Johnson	281,884	July 24	1953	534	24	359
Telegraph alarm. Printing-	S. D. Field	279,730	June 19	1386	386, 387	23	2374
Telegraph and clock system. Combined	C. E. Buell	279,327	June 12	894	249, 250	23	2284
Telegraph and other wires. Conduit for underground lines for	W. Hendley	281,064	July 10	893	248, 249	24	165
Telegraph and semaphore signal	W. W. McLellan	274,212	Mar. 20	1248	344	23	1064
Telegraph and telephone cable	J. C. Chambers	289,891	Dec. 11	651	181	25	1007
Telegraph and telephone cable	C. Huck	278,968	June 5	433	119	23	2197
Telegraph and telephone conductor	J. C. Chambers	289,890	Dec. 11	650	181	25	1007
Telegraph and telephone line	T. N. Vail	279,289	June 12	835	232	23	2276
Telegraph and telephone lines. Combined cut-out and ground-switch for	C. H. Lothrop	284,031	Aug. 28	1912	535	24	869
Telegraph and telephone wire	G. Gray	290,769	Dec. 25	1783	492	25	1223
Telegraph and transmitter therefor. Printing	S. D. Field	287,205	Oct. 23	1881	515	25	360
Telegraph apparatus	G. D'Infreville	274,112	Mar. 20	1120	309	23	1041
Telegraph. Automatic	R. Anderson	289,205	Nov. 27	1769	490	25	841
Telegraph. Automatic	J. H. Rogers	277,349	May 8	1039	279	23	1812
Telegraph. Automatic	J. W. Rogers	283,665	Aug. 21	1433	401	24	773
Telegraph. Automatic printing-	A. F. and F. B. Johnson	275,339	Apr. 3	597	160, 161, 162	23	1327
Telegraph. Automatic printing-	F. Ostrogovich	281,788	July 24	1831	500, 501, 502	24	338
Telegraph-blank	N. W. Hartwell	284,297	Sept. 4	175	49, 50	24	934
Telegraph-cable	W. T. Henley	286,698	Oct. 16	1161	312	25	226
Telegraph-cable	N. M. Rittenhouse	272,774	Feb. 20	1500	422	23	718
Telegraph-cable splice	W. R. Patterson	277,335	May 8	1025	275	23	1809
Telegraph cable. Submarine-	S. Trott and F. A. Hamilton	271,548	Jan. 30	2142	616	23	426
Telegraph-cable pipe	W. R. Patterson	271,262	Jan. 30	1771	513	23	360
Telegraph-cables. Apparatus for covering	J. Robertson	275,859	Apr. 17	1299	357	23	1463
Telegraph-cables. Apparatus for making	A. H. Hamon	288,795	Nov. 20	1269	347	25	743
Telegraph. Chemical	T. F. Taylor	289,173	Nov. 27	1722	480	25	832
Telegraph. District, police, or fire	F. Pearce	288,107	Nov. 6	394	111	25	576
Telegraph. Duplex	J. E. Fenn	275,334	Apr. 3	591	159	23	1326
Telegraph. Duplex	B. Thompson	286,867	Oct. 16	1367	375	25	262
Telegraph. Duplex and quadruplex	G. W. Gardanier	283,995	Aug. 28	1845	520, 521	24	859
Telegraph. Dynamo multiple	S. D. Field	288,786	Nov. 20	1256	344, 345	25	741
Telegraph. Fire-alarm	T. Ahearn	283,944	Aug. 28	1786	504	24	848
Telegraph. Fire-alarm	E. Rogers	285,076	Sept. 18	1132	316	24	1112
Telegraph. Fire-alarm or district	W. B. Vansize	280,536	July 3	239	64, 65	24	43
Telegraph. Fire and district	T. D. Lockwood	273,374	Mar. 6	179	49	23	864
Telegraph-key	H. Anderson	288,609	Nov. 20	1033	285	25	703
Telegraph-key	E. A. Edwards	270,767	Jan. 16	1167	334	23	243
Telegraph-key	W. D. Farren	270,652	Jan. 16	1024	294	23	216
Telegraph-key	E. G. Stevens	275,433	Apr. 10	750	200	23	1362
Telegraph-key. Imitation	L. H. Hart	281,362	July 17	1281	355	24	238
Telegraph-keys. Automatic circuit-closer for	S. J. Spurgeon	284,508	Sept. 4	428	121	24	976
Telegraph line. Underground	W. Cohlman	277,007	May 8	620	162, 163	23	1738
Telegraph line. Underground-	N. M. Rittenhouse and M. W. Locke	276,472	Apr. 24	2056	571	23	1603
Telegraph-lines. Automatic roll-call for	W. P. Harris	280,616	July 3	332	93	24	59
Telegraph-lines. Ground-wire clamp for	H. W. Pope	283,140	Aug. 14	791	229	24	647
Telegraph. Mechanical speaking-	A. M. Rosebrugh	270,848	Jan. 16	1260	363	23	261
Telegraph. Multiplex	E. A. Calahan and P. B. Delany	281,339	July 17	1249	346, 347, 348	24	233
Telegraph or telephone lines. Conduit for	S. Brentano	274,710	Mar. 27	1891	527	23	1183
Telegraph-pole	T. Breen	282,489	Aug. 7	11	3	24	503
Telegraph-pole	B. A. Davis	290,752	Dec. 25	1767	487	25	1220
Telegraph-pole	S. T. Suit	289,320	Nov. 27	1899	529	25	866
Telegraph. Printing-	W. J. Burnside	273,810	Mar. 13	737	200	23	969
Telegraph. Printing-	S. V. Essick	279,550	June 19	1179	326, 327	23	2338
Telegraph. Printing-	S. D. Field	274,300	Mar. 20	1358	373	23	1082
Telegraph. Printing-	S. D. Field	274,748	Mar. 27	1934	538	23	1191
Telegraph. Printing-	S. D. Field	279,729	June 19	1385	386	23	2373
Telegraph. Printing-	S. D. Field	279,865	June 19	1542	431	23	2401
Telegraph. Printing-	S. D. Field	287,266	Oct. 23	1883	515	25	360
Telegraph. Printing-	S. D. Field	290,557	Dec. 18	1502	414	25	1166
Telegraph. Printing-	S. D. Field	290,635	Dec. 18	1602	439, 440	25	1182
Telegraph. Printing-	G. B. Scott	274,665	Mar. 27	1840	512, 513	23	1175
Telegraph. Printing-	H. Van Hoevenbergh	274,416	Mar. 20	1503	414	23	1109
Telegraph. Printing-	H. Van Hoevenbergh	285,709	Sept. 25	1886	537, 538	24	1254
Telegraph. Printing-	H. Van Hoevenbergh	285,710	Sept. 25	1892	538	24	1255
Telegraph. Printing-	H. Van Hoevenbergh	286,977	Oct. 16	1508	415	25	286
Telegraph. Printing-	W. B. Vansize and C. L. Buckingham.	290,613	Dec. 18	1573	432	25	1178
Telegraph. Printing-	A. Wirsching	286,667	Oct. 16	1115	300, 301	25	218

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Telegraph. Quadruplex	G. D'Infreville	281,249	July 17	1138	313, 314, 315	24	214
Telegraph. Quadruplex	A. Muirhead	281,117	July 10	953	267	24	176
Telegraph. Quadruplex	A. Muirhead and G. K. Winter	281,118	July 10	955	267	24	176
Telegraph. Railway	W. D. C. Pattyson	290,602	Dec. 18	1561	429, 430	25	1176
Telegraph. Railway-train	W. T. Waters	271,958	Feb. 6	451	123	23	520
Telegraph-relay	M. J. O'Sullivan	286,955	Oct. 16	1481	407	25	281
Telegraph relay. Quadruplex	H. C. Nicholson	289,301	Nov. 27	1875	521	25	862
Telegraph-sounder	W. E. Davis	273,264	Mar. 6	24	8	23	838
Telegraph-sounder	W. C. Smith	288,881	Nov. 20	1370	378	25	762
Telegraph-transmitter	H. Lyon	283,716	Aug. 21	1503	424	24	786
Telegraph-wire	T. Shaw	289,575	Dec. 4	255	72	25	932
Telegraph-wire conduit. Underground	A. Sloan	274,522	Mar. 27	1671	464	23	1144
Telegraph-wire coupling	G. Brott	272,524	Feb. 20	1183	330	23	661
Telegraph-wires. Laying underground	F. M. Speed	286,861	Oct. 16	1359	372	25	261
Telegraph-wires. System of laying	A. J. O'Reilly	284,655	Sept. 11	604	171	24	1012
Telegraph-wires. Underground tube for	W. Lenderoth	284,643	Sept. 11	590	166	24	1010
Telegraphs. Controlling printing-circuits of printing-	S. D. Field	290,556	Dec. 18	1500	414	25	1166
Telegraphs. Dynamo-electric machine for printing-	S. D. Field	282,297	July 31	2492	682	24	454
Telegraphs. Multiple signal-box for fire and district	J. C. Wilson	284,527	Sept. 4	449	127, 128	24	980
Telegraphs. Optical attachment for printing-	W. J. McCausland	270,907	Jan. 23	1338	386	23	280
Telegraphs. Perforator for automatic	T. M. Foote	270,774	Jan. 16	1174	336, 337	23	244
Telegraphs. Polarized relay for quadruplex	G. W. Gardanier	275,185	Apr. 3	392	107	23	1294
Telegraphs. Signaling apparatus for district and fire-alarm	T. A. Casey	272,645	Feb. 20	1341	376	23	690
Telegraphs. Station-switch for fire-	G. F. Bulen	271,597	Feb. 6	15	4	23	443
Telegraphic and telephonic instruments. Protector for	M. D. Connolly	279,712	June 19	1364	380	23	2370
Telegraphic and telephonic instruments. Protector for	M. D. Connolly	279,714	June 19	1366	381	23	2371
Telegraphic and telephonic instruments. Protector for	M. D. Connolly	279,715	June 19	1367	381	23	2371
Telegraphic apparatus	P. B. Delany	286,280	Oct. 9	633	170	25	125
Telegraphic apparatus	W. L. Hunt	270,674	Jan. 16	1051	300	23	221
Telegraphic apparatus	F. L. Pope	284,481	Sept. 4	387	107	24	969
Telegraphic conductors. Supporting and preserving	J. H. Green	275,195	Apr. 3	402	111	23	1295
Telegraphic fire-alarm stations. Automatic testing apparatus for	G. F. Bulen	271,598	Feb. 6	18	5	23	443
Telegraphic receiving-instrument	E. M. Hamilton	273,728	Mar. 13	634	168	23	951
Telegraphic relay	T. Cochran	272,210	Feb. 13	775	214	23	586
Telegraphic relay	J. P. Smithers	276,087	Apr. 17	1564	431	23	1510
Telegraphic relay and repeater	J. A. Maloney	289,285	Nov. 27	1859	516	25	858
Telegraphic repeater	W. E. Athearn	286,107	Oct. 2	401	110	25	74
Telegraphic repeater	J. P. Smithers	279,670	June 19	1317	366	23	2362
Telegraphic transmitter	M. H. Dement	287,914	Nov. 6	156	45	25	535
Telegraphy	P. B. Delany	286,282	Oct. 9	638	170	25	126
Telegraphy	T. M. Foote	270,775	Jan. 16	1178	337, 338	23	245
Telegraphy	G. Smith and T. F. Taylor	284,498	Sept. 4	414	118	24	974
Telegraphy apparatus. Electric-	P. E. Perez	274,652	Mar. 27	1824	507	23	1172
Telegraphy. Duplex	P. B. Delany	286,279	Oct. 9	629	169	25	125
Telegraphy. Duplex and multiplex	G. W. Gardanier	280,028	June 26	1753	492	23	2444
Telegraphy. Duplex and quadruplex	A. Muirhead	280,753	July 3	505	143, 144	24	90
Telegraphy. Dynamo-	S. D. Field	282,294	July 31	2470	681	24	452
Telegraphy. Dynamo-	S. D. Field	282,295	July 31	2476	681	24	452
Telegraphy. Dynamo-	S. D. Field	282,296	July 31	2478	682	24	453
Telegraphy. Dynamo-	H. Van Hoevenbergh	274,417	Mar. 20	1505	414	23	1109
Telegraphy. Multiplex	C. Selden	270,990	Jan. 23	1443	417	23	297
Telegraphy. Receiving-instrument for quadruplex	S. D. Field	275,181	Apr. 3	386	106	23	1293
Telemeter	W. D. Patterson	279,273	June 12	820	227	23	2273
Telephone	H. Clay	277,112	May 8	760	200	23	1702
Telephone	A. E. Dolbear	288,215	Nov. 13	523	146	25	606
Telephone	D. Drawbaugh	290,978	Dec. 25	2057	566	25	1267
Telephone	D. Drawbaugh	290,979	Dec. 25	2058	566	25	1268
Telephone	T. A. Edison	272,034	Feb. 13	557	151	23	549
Telephone	T. A. Edison	274,577	Mar. 27	1736	482	23	1155
Telephone	C. Egan	282,969	Aug. 14	584	165	24	611
Telephone	C. T. Loring and G. W. Pierce	271,878	Feb. 6	351	98	23	502
Telephone	J. H. Rogers	281,560	July 17	1523	418	24	279
Telephone	G. R. Shepherd	286,737	Oct. 16	1208	325	25	234
Telephone. Acoustic	B. N. Botts	286,680	Oct. 16	1135	306	25	221
Telephone. Acoustic	O. and W. S. Higgins and J. Grim	273,079	Feb. 27	1886	530	23	791
Telephone. Acoustic	C. Selden	281,407	July 17	1333	369	24	248
Telephone and signal circuit	E. P. Warner	284,102	Aug. 28	1998	556	24	684
Telephone and telegraph cable	C. Huck	284,425	Sept. 4	326	91	24	958
Telephone and telegraph cable	C. Huck	284,426	Sept. 4	327	91	24	958
Telephone and telegraph lines. Signaling apparatus for	E. Gray and F. L. Pope	284,003	Aug. 28	1877	526, 527	24	863
Telephone and telegraph protector	C. C. Drake	280,916	July 10	711	200	24	132
Telephone and telegraph switches. Electric time-register for	F. E. Kinsman	276,184	Apr. 24	1688	466	23	1540
Telephone and telegraph wires, &c. Machinery for covering	J. A. Sparling	282,680	Aug. 7	246	71	24	542
Telephone apparatus. Circuit for	C. E. Allen	290,307	Dec. 18	1161	325, 326	25	1107
Telephone-cabinet	R. Busteed	282,841	Aug. 7	438	123	24	577
Telephone-call	P. C. Ohl	280,948	July 10	759	211	24	139

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Telephone call-bell	H. Clay	280,451	July 3	141	38	24	27
Telephone call-boxes. Automatic crank-switch for	C. E. Scribner	287,873	Nov. 6	103	30	25	525
Telephone call-boxes. Circuit for	C. E. Scribner	283,927	Aug. 28	1761	497	24	842
Telephone call-circuits. Pole-changer for	E. E. Bawsel	274,552	Mar. 27	1705	473	23	1149
Telephone-call indicator	J. M. Provoost	276,465	Apr. 24	2050	569	23	1601
Telephone-call. Individual	J. H. Cary	281,614	July 17	1596	436	24	291
Telephone-call. Individual	J. A. Lakin	276,604	May 1	75	21	23	1641
Telephone central-office apparatus	W. M. Brock	282,699	Aug. 7	278	78, 79	24	547
Telephone central-office apparatus	L. B. Firman	283,334	Aug. 14	1038	291	24	693
Telephone central-office switch-board	T. J. Perrin	280,662	July 3	385	108	24	68
Telephone-circuit	J. A. McCoy	278,351	May 29	2292	626, 627	23	2048
Telephone-circuit	J. M. Stearns, Jr	281,413	July 17	1342	371	24	249
Telephone-circuits. Automatic signaling apparatus for	T. N. Vail	275,296	Apr. 3	526	144	23	1315
Telephone cut-out	C. D. Wright and C. A. Fisher	288,908	Nov. 20	1400	386	25	767
Telephone. Electric	H. B. Porter	269,879	Jan. 2	65	20	23	15
Telephone. Electric	J. H. Robertson	276,630	May 1	107	29	23	1645
Telephone. Electric	J. H. Robertson	276,631	May 1	109	29	23	1646
Telephone. Electric	J. M. Stearns, Jr	281,414	July 17	1343	371	24	250
Telephone. Electric speaking	A. W. Rose and C. A. Cheever	272,329	Feb. 13	919	256	23	611
Telephone-exchange	I. M. O'Donel	283,806	Aug. 28	1619	456, 457	24	818
Telephone-exchange apparatus	T. A. Watson	280,266	June 26	2026	570	23	2493
Telephone-exchange. Automatic	G. A. Cardwell	281,613	July 17	1503	436	24	290
Telephone-exchange circuit	A. S. Hibbard	274,602	Mar. 27	1770	490	23	1161
Telephone-exchange circuit	C. E. Scribner	278,367	May 29	2313	633	23	2052
Telephone-exchange signaling circuit and apparatus	T. N. Vail	274,857	Mar. 27	2058	574	23	1213
Telephone-exchange switch	G. W. Coy	275,362	Apr. 10	648	174	23	1345
Telephone-exchange system	G. F. Durant	286,595	Oct. 16	1024	278	25	202
Telephone-exchange system	J. E. Fenn	285,245	Sept. 18	1335	376	24	1148
Telephone-exchange system	C. A. Randall	270,556	Jan. 9	897	259	23	185
Telephone-exchange system and apparatus	F. Shaw and W. A. Childs	278,613	May 29	2601	710	23	2103
Telephone-exchange systems. Signaling apparatus for	J. H. Cary	285,342	Sept. 18	1440	407	24	1167
Telephone-exchanges. Alarm-signal apparatus for	E. A. Woelk	272,505	Feb. 20	1163	326	23	658
Telephone-exchanges. Circuit for multiple switch-boards for	C. E. Scribner	271,279	Jan. 30	1790	520	23	363
Telephone-exchanges. Duplicate switch-board for	G. M. Phelps, Jr	285,670	Sept. 25	1840	525	24	1246
Telephone-exchanges. Signaling apparatus for	T. D. Lockwood	283,626	Aug. 21	1389	389	24	764
Telephone-exchanges. Spring-jack switch for	J. C. Warner	281,741	July 24	1769	481	24	326
Telephone-holder and automatic circuit-breaker. Adjustable	W. H. Eckert, J. A. Seely, and E. A. Eckert.	288,320	Nov. 13	659	182	25	630
Telephone lines. Angle-hanger for mechanical	G. F. Shaver	278,750	June 5	93	27	23	2140
Telephone-lines. Electric signaling apparatus for	D. Drawbaugh	276,136	Apr. 17	1630	449	23	1522
Telephone-lines. Mechanism for preventing induced currents in	J. W. Brennan and N. Rousseau	287,092	Oct. 23	1663	457	25	321
Telephone-lines. Spring-jack and circuit for through	C. H. Wilson	283,312	Aug. 14	1005	282	24	687
Telephone-lines. Switching apparatus for	J. V. M. Bartelous	290,730	Dec. 25	1733	479	25	1214
Telephone-lines. Transmitting apparatus for	T. D. Lockwood	281,895	July 24	1970	539	24	362
Telephone local-call instrument	W. Nichols	283,354	Aug. 14	1067	300, 301	24	699
Telephone. Mechanical	W. J. Bowen	285,004	Sept. 18	1047	293	24	1098
Telephone. Mechanical	J. W. Clark	289,620	Dec. 4	306	85, 86	25	941
Telephone. Mechanical	G. K. and H. C. Farrington	271,324	Jan. 30	1851	537	23	373
Telephone. Mechanical	H. E. Huston	285,269	Sept. 18	1361	384	24	1154
Telephone. Mechanical	A. G. Miller	288,835	Nov. 20	1315	360	25	751
Telephone. Mechanical	C. Selden	281,406	July 17	1332	369	24	247
Telephone-receiver	S. H. Bartlett and H. E. Waite	271,188	Jan. 23	1684	486	23	336
Telephone-receiver	S. H. Bartlett and H. E. Waite	287,896	Nov. 6	134	39	25	531
Telephone-receiver	J. F. Batchelor	281,000	July 10	815	227	24	151
Telephone-receiver	L. J. Crossley	280,800	July 10	581	162	24	109
Telephone-receiver	G. E. Shaw	276,723	May 1	249	63	23	1667
Telephone-receiver	H. E. Waite	286,875	Oct. 16	1380	378	25	264
Telephone-receiver	H. E. Waite	286,876	Oct. 16	1380	379	25	264
Telephone-receiver	H. E. Waite	287,742	Oct. 30	2507	675	25	486
Telephone-receiver	H. E. Waite and S. H. Bartlett	287,743	Oct. 30	2507	676	25	486
Telephone-receiver. Adjustable double	D. G. Barnard	280,116	June 26	1851	522	23	2462
Telephone-receivers. Circuit-closer for	E. C. Dean	271,610	Feb. 6	33	8	23	446
Telephone. Receiving	M. L. Baxter	277,199	May 8	867	230	23	1780
Telephone. Receiving	J. A. Maloney	274,352	Mar. 20	1426	391	23	1095
Telephone-repeater	D. Drawbaugh	287,111	Oct. 23	1689	462, 463	25	396
Telephone signaling apparatus	J. J. Carty	288,691	Nov. 20	1140	314	25	720
Telephone signaling apparatus	W. J. Dudley	278,322	May 29	2244	616	23	2040
Telephone signaling apparatus	F. B. Herzog	289,834	Dec. 11	577	161, 162	25	994
Telephone. Speaking	F. Blake, Jr	283,062	Aug. 14	704	197	24	632
Telephone. Speaking	S. D. Field	275,178	Apr. 3	382	106	23	1292
Telephone. Speaking	J. H. Robertson	289,309	Nov. 27	1885	525	25	864
Telephone-support	T. W. Lane	287,301	Oct. 23	1930	527	25	369
Telephone-support	C. T. Loring	281,381	July 17	1299	360	24	242
Telephone-support	C. H. Ohly	288,183	Nov. 6	482	134	25	591
Telephone-support	J. Tregurtha	289,179	Nov. 27	1730	482	25	834
Telephone-support	J. Tregurtha	289,180	Nov. 27	1734	482	25	834
Telephone support and switch. Adjustable	G. A. Wilkins	286,518	Oct. 9	922	248, 249	25	177
Telephone-switch	H. W. Breckenridge	278,494	May 29	2466	672	23	2079
Telephone-switch	C. T. Loring	289,353	Nov. 27	1940	539	25	874
Telephone-switch	T. J. McTighe	270,326	Jan. 9	594	175	23	126
Telephone-switch	C. E. Scribner	284,908	Sept. 11	918	259	24	1068
Telephone-switch	C. E. Scribner	284,909	Sept. 11	919	259	24	1068
Telephone-switch	J. Tregurtha	289,178	Nov. 27	1796	481, 482	25	833

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Telephone-switch	J. Tregurtha	289,321	Nov. 27	1900	529	25	867
Telephone-switch	T. A. Watson	270,522	Jan. 9	853	248, 249	23	177
Telephone switch-board	H. Clay	280,351	July 3	15	4	24	5
Telephone switch-board	E. B. Hamlin	279,747	June 19	1402	391, 392	23	2377
Telephone switch-board	T. J. Perrin	280,663	July 3	388	109	24	69
Telephone switch-boards. Looping-in mechanism for	E. M. Wilson	279,471	June 12	1074	298	23	2314
Telephone system	W. H. Eckert and J. A. Seely	288,627	Nov. 20	1057	291	25	707
Telephone system	C. A. Jackson	289,539	Dec. 4	209	59	25	923
Telephone system and apparatus	I. H. Farnham	281,478	July 17	1428	391	24	263
Telephone system and apparatus	C. A. Randall	271,513	Jan. 30	2102	604	23	419
Telephone systems. Automatic indicator-switch for	G. L. Anders	280,707	July 3	442	126	24	79
Telephone time-signal	J. M. Oram	278,357	May 29	2300	629, 630	23	2050
Telephone time-signal repeating system	J. M. Oram	287,710	Oct. 30	2462	663, 664	25	478
Telephone-transmitter	E. Berliner	285,102	Sept. 18	1166	326	24	1118
Telephone-transmitter	J. H. Cheever	281,240	July 17	1126	310	24	212
Telephone-transmitter	H. Clay	280,580	July 3	294	81	24	53
Telephone-transmitter	W. A. Crawford	270,752	Jan. 16	1150	329, 330	23	239
Telephone-transmitter	D. Drawbaugh	272,865	Feb. 27	1636	458	23	749
Telephone-transmitter	D. Drawbaugh	276,137	Apr. 17	1631	449	23	1522
Telephone-transmitter	D. Drawbaugh	290,980	Dec. 25	2059	566	25	1268
Telephone-transmitter	C. D. Haskins	286,923	Oct. 16	1438	395	25	274
Telephone-transmitter	J. A. Lakin	278,026	May 22	1849	505	23	1963
Telephone-transmitter	J. A. Lakin	279,401	June 12	999	277	23	2301
Telephone-transmitter	W. C. Lockwood	283,123	Aug. 14	775	218	24	645
Telephone-transmitter	E. A. Schoettel	271,924	Feb. 6	417	113	23	513
Telephone-transmitter	E. L. Wilson	275,310	Apr. 3	545	148	23	1319
Telephone-transmitter	E. L. Wilson	287,490	Oct. 30	2167	588	25	421
Telephone-transmitter	R. D. Woodworth	274,075	Mar. 13	1062	293	23	1024
Telephone transmitter and receiver	J. H. Rogers	269,884	Jan. 2	70	21	23	16
Telephone-transmitter. Electric	J. A. Maloney	274,353	Mar. 20	1427	391	23	1095
Telephone-transmitter. Electric	J. H. Robertson	276,632	May 1	110	29	23	1646
Telephone-transmitters. Mouth-piece for	A. S. Nichols	271,903	Feb. 6	384	106	23	508
Telephone. Transmitting-	M. L. Baxter	277,198	May 8	865	230	23	1780
Telephone. Transmitting-	T. A. Edison	274,576	Mar. 27	1734	482	23	1154
Telephones. Apparatus for counterbalancing disturbances in	A. Bernstein	286,577	Oct. 16	999	270	25	198
Telephones. Automatic resistance cut-out for	C. D. Wright and C. A. Fisher	288,909	Nov. 20	1402	386, 387	25	768
Telephones. Head-gear for switchmen's	C. E. Scribner	275,420	Apr. 10	728	194	23	1359
Telephones. Individual signaling apparatus for	J. H. Cary	281,430	July 17	1394	383	24	258
Telephones. Secrecy-switch for	C. E. Scribner	271,280	Jan. 30	1791	520	23	363
Telephones. Speaking-trumpet for receiving-	D. Drawbaugh	272,866	Feb. 27	1639	458	23	749
Telephonic and burglar-alarm system. Combined	W. S. Shoupe and T. Buskirk	279,193	June 12	729	200	23	2258
Telephonic and other electrical purposes. Line-changer for	C. H. Lotbrop	277,145	May 8	805	212	23	1770
Telephonic and telegraphic instruments. Apparatus for protecting	F. E. Kinsman	283,492	Aug. 21	1242	349	24	736
Telephonic and telegraphic system	J. P. Barrett	284,595	Sept. 11	533	151	24	1001
Telephonic apparatus	W. A. Belcher	283,747	Aug. 28	1549	438	24	806
Telephonic apparatus	J. H. Kinsman	288,449	Nov. 13	835	226, 227	25	661
Telephonic circuit	W. H. Eckert and J. A. Seely	282,867	Aug. 7	472	133	24	584
Telephonic circuit	J. M. Stearns, Jr	270,500	Jan. 9	815	238	23	169
Telephonic communication. Apparatus and system for	A. Dunand	280,365	July 3	31	9	24	8
Telephonic communication. Apparatus for	J. H. Rogers	288,366	Nov. 13	732	199	25	642
Telephonic repeater and relay	J. A. Maloney	287,449	Oct. 30	2111	574	25	410
Telephonic repeating-circuit	T. D. Lockwood	290,808	Dec. 25	1942	535, 536	25	1250
Telephonic system	G. L. Anders	287,356	Oct. 23	1993	543	25	380
Telephonic system	J. P. Barrett	284,594	Sept. 11	532	151	24	1000
Telephonic transmitter	C. Ader	274,246	Mar. 20	1291	355, 356	23	1072
Telephonic transmitter	H. Clay	288,017	Nov. 6	292	82	25	557
Telephonic transmitter	G. E. Shaw	270,136	Jan. 2	365	106	23	75
Telephonic transmitters. Adjustable support for	W. H. Eckert, J. A. Seely, and E. A. Eckert.	275,611	Apr. 10	972	264	23	1401
Telephonically. System and apparatus for communicating	C. T. Dickson	278,411	May 29	2362	645, 646	23	2061
Telescopic case. Portable	J. E. Haskell	281,268	July 17	1163	321	24	219
Telethermometer	C. L. Clarke	285,572	Sept. 25	1720	486, 487	24	1223
Tellurian	A. C. Shaw	288,372	Nov. 13	741	201	25	644
Temperature and pressure indicators. Circuit and apparatus for electric	C. L. Clarke	284,382	Sept. 4	270	76	24	950
Temperature-indicator. Electric	R. Hewitt, Jr	281,877	July 24	1943	531	24	358
Temperature-indicator. Marine	F. B. Stevens and J. L. Bond	284,774	Sept. 11	761	212	24	1039
Temperature-regulator. Automatic	A. Morel	273,757	Mar. 13	669	179	23	957
Tempering-tank	A. A. Simonds	277,518	May 15	1239	334	23	1858
Tenoning-machine	G. Luppert	286,546	Oct. 9	955	257	25	184
Tenoning-machines. Carriage-support for	W. H. Doane	285,586	Sept. 25	1740	492	24	1227
Tension-release	J. and W. L. Heberling	287,928	Nov. 6	173	50	25	538
Tent and bed. Combined	M. Perez	279,593	June 19	1227	340	23	2347
Tent-frame	W. B. Garver and E. Varian	288,938	Nov. 20	1437	396	25	774
Terret for bridles. Overcheck-	F. L. Jones	288,709	Nov. 20	1160	318	25	723
Terret for harness. Crown-	H. C. Gill	279,149	June 12	686	188	23	2250
Terret. Harness-	P. McFadden	282,743	Aug. 7	328	93	24	557
Tester. Liquid-	J. O. Schubert and V. Bukey	290,935	Dec. 25	1991	549	25	1258

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Testing-machine. Hydraulic	C. E. Emery	278,919	June 5	377	102, 103	23	2187
Testing the strength of materials. Machine for	A. H. Emery	278,916	June 5	358	98, 99	23	2194
Testing the strength of materials. Machine for	A. H. Emery	278,917	June 5	361	99, 100	23	2185
Testing the strength of materials. Machinery for	A. H. Emery	278,915	June 5	352	96, 97, 98	23	2183
Testing the strength of metal. Machinery for	A. H. Emery	278,914	June 5	347	95, 96	23	2183
Testing the strength of metal. Machinery for	A. H. Emery	278,918	June 5	366	100, 101, 102	23	2186
Tether	C. F. Christopher and R. B. Alexander.	274,462	Mar. 27	1574	431	23	1128
Tethering device. Animal-	W. Heaton	283,240	Aug. 14	918	256	24	670
Textile fabric and the like. Manufacture of	H. da Costa Corrêa Leite	287,247	Oct. 23	1862	.....	25	356
Theater-stage	C. A. Needham	273,880	Mar. 13	831	225	23	984
Theatrical appliance	F. Seymour	280,525	July 3	229	60	24	41
Theodolite	J. B. Faucette	289,401	Dec. 4	35	11	25	893
Theodolite. Solar	J. W. Holmes	275,913	Apr. 17	1360	374, 375	23	1475
Therapeutic apparatus. Electro-	A. W. K. Andrews and C. R. Teed	282,431	July 31	2659	729, 730	24	484
Therapeutic electric appliance	J. E. Carr	287,096	Oct. 23	1669	458	25	322
Thermo-electric battery	A. K. Eaton	289,631	Dec. 4	320	89	25	944
Thermometer	J. G. Smith	282,390	July 31	2603	715	24	475
Thermometer	H. Weinhagen	278,380	May 29	2326	637	23	2055
Thermometer. Clinical	J. J. Hicks	280,037	June 26	1765	495	23	2446
Thermometer. Self-registering	W. H. H. Barton	289,603	Dec. 4	289	81	25	938
Thermometer-tube	H. Weinhagen. (Reissue)	10,274	Jan. 16	1301	375	23	268
Thermostat	W. G. Day	277,241	May 8	912	244	23	1789
Thermostat. Electric	T. Reeve	269,960	Jan. 2	164	48	23	34
Thermostat. Electrical	F. H. Prentiss and J. A. Tilden	285,676	Sept. 25	1846	527	24	1247
Thermostat for incubators	E. S. Renwick	281,397	July 17	1319	364, 365	24	246
Thermostats. Automatic correcting device for	H. Dowens	270,643	Jan. 16	1008	291	23	213
Thill-adjuster	C. H. Myers	278,449	May 29	2412	657	23	2070
Thill-carrier for harness	F. A. Hake	273,983	Mar. 13	947	261	23	1004
Thill-coupling	G. W. Beebe	272,628	Feb. 20	1320	370	23	680
Thill-coupling	A. A. Bennett	270,571	Jan. 16	920	265	23	197
Thill-coupling	I. G. Bower	271,191	Jan. 23	1687	487	23	337
Thill-coupling	S. E. and S. A. Browne	288,541	Nov. 13	948	259	25	680
Thill-coupling	C. A. Buffington	273,808	Mar. 13	735	200	23	968
Thill-coupling	C. L. Dalton	286,911	Oct. 16	1427	392	25	272
Thill-coupling	I. Elting	286,123	Oct. 2	421	115	25	78
Thill-coupling	L. H. Emmons	280,806	July 10	587	164	24	110
Thill-coupling	T. and C. L. Ferguson	273,497	Mar. 6	325	88	23	890
Thill-coupling	J. H. Flemming	274,751	Mar. 27	1939	539	23	1192
Thill-coupling	J. H. Foote	277,416	May 8	1112	299	23	1824
Thill-coupling	H. E. Gamble	288,992	Nov. 27	1507	417	25	794
Thill-coupling	F. E. Goldsmith	273,064	Feb. 27	1872	526	23	789
Thill-coupling	J. Groh	276,580	May 1	50	14	23	1636
Thill-coupling	F. Hand	285,409	Sept. 25	1532	432	24	1189
Thill-coupling	G. W. Haskell	279,381	June 12	973	270	23	2297
Thill-coupling	J. Haviland	289,413	Dec. 4	49	14	25	895
Thill-coupling	H. E. Henwood	278,960	June 5	426	117	23	2196
Thill-coupling	F. B. Herzog	282,080	July 31	2197	603	24	406
Thill-coupling	H. M. Holiday	286,439	Oct. 9	829	225	25	161
Thill-coupling	J. O. Hopping	278,138	May 22	1987	546	23	1987
Thill-coupling	D. E. Hull	279,246	June 12	787	216	23	2266
Thill-coupling	G. H. Hutton	282,457	July 31	2693	739	24	490
Thill-coupling	D. A. Johnson	282,086	July 31	2207	607	24	408
Thill-coupling	J. W. Kelley	278,339	May 29	2278	622	23	2046
Thill-coupling	J. Lauth	271,642	Feb. 6	71	20	23	453
Thill-coupling	B. McGovern	290,782	Dec. 25	1797	496	25	1225
Thill-coupling	B. McGovern	290,783	Dec. 25	1798	496	25	1225
Thill-coupling	J. McLaughlin	284,750	Sept. 11	731	204	24	1035
Thill-coupling	R. M. Painter	284,053	Aug. 28	1936	541	24	873
Thill-coupling	N. A. Primus	274,656	Mar. 27	1899	508	23	1172
Thill-coupling	W. S. Shanahan	279,096	June 5	505	137	23	2309
Thill-coupling	A. E. Stafford	283,827	Aug. 28	1644	463	24	822
Thill-coupling	H. Temple	279,043	June 5	527	143	23	2213
Thill-coupling	T. J. Terry	283,933	Aug. 28	1769	500	24	845
Thill-coupling	G. F. Thompson	281,583	July 17	1552	425	24	284
Thill-coupling	M. Wagner	281,323	July 17	1233	341	24	231
Thill-coupling	J. M. Wannamaker	279,996	June 26	1707	478	23	2436
Thill-coupling	A. C. Wetherbee	274,428	Mar. 20	1520	418	23	1112
Thill-coupling	W. Williams	283,309	Aug. 14	1002	281	24	687
Thill-coupling	A. B. and M. D. Wise	275,740	Apr. 10	1131	309	23	1428
Thill-coupling	R. T. Woliston and S. W. Printz	276,120	Apr. 17	1612	444	23	1518
Thill-coupling	L. C. Wood and J. S. Taylor	282,021	July 24	2117	580	24	386
Thill-coupling	M. E. Zeller	273,791	Mar. 13	717	195	23	965
Thill coupling and detacher	D. Green	270,658	Jan. 16	1030	296	23	217
Thill-coupling bolt	C. A. Curtis	270,935	Jan. 23	1370	395	23	286
Thill-coupling clip	V. M. Braffett	282,951	Aug. 14	567	160	24	608
Thill-coupling for sleighs	A. J. Allen	277,099	May 8	742	195	23	1759
Thill-coupling jack	J. Parent	279,005	June 5	476	130	23	2204
Thill-coupling jack	T. M. Stone	287,884	Nov. 6	117	35	25	528
Thill loop or tug	C. Grunder and J. H. Moyer	279,151	June 12	688	188	23	2251
Thill-lug	T. Broderick	290,523	Dec. 18	1459	403	25	1158
Thill-lug	J. A. Folsom	289,843	Jan. 2	30	10	23	8
Thill. Sleigh-	G. H. Lusk	277,843	May 15	1623	442	23	1918
Thill-strap. Harness	A. Lobdell	274,306	Mar. 20	1229	338	23	1061
Thill-supporter	E. H. and C. Morgan	273,877	Mar. 13	829	224	23	984

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'gs	Vol.	Page.
Thill-supporter	E. H. and C. Morgan	260,942	July 10	753	209	24	138
Thill. Vehicle-	A. Rasmussen	279,804	June 19	1466	411	23	2388
Thill. Vehicle-	D. P. Sharp	276,196	Apr. 24	1704	471	23	1542
Thimble	M. Beaty	279,524	June 19	1152	319	23	2333
Thimble and thread-cutter. Combined	W. J. Miller	273,380	Mar. 6	187	50	23	866
Thimble-skein	C. B. Brown	279,909	June 26	1600	448	23	2418
Thimbles. Manufacture of	H. McDougall	274,356	Mar. 20	1430	392	23	1096
Thimbles. Manufacture of sewing-	W. D. Whiting	273,924	Mar. 13	883	240	23	993
Thrasher and cleaner. Grain	D. H. Rader and J. Malsbary	273,391	Mar. 6	199	53, 54	23	868
Thrasher and huller. Clover	E. R. Jones	278,336	May 29	2274	621	23	2045
Thrasher and separator. Grain	J. Buchanan	271,310	Jan. 30	1829	531	23	371
Thrasher and separator. Grain	O. O. Graves	287,665	Oct. 30	2400	647	25	468
Thrasher and separator. Grain	W. L. Muller	280,066	June 26	1796	504, 505	23	2452
Thrasher and separator. Grain and seed	J. H. Hamaker	283,778	Aug. 28	1588	449	24	813
Thrasher and separator. Pea	T. J. Porter	287,394	Oct. 23	1956	534	25	374
Thrasher-cylinder	A. G. Stewart	283,529	Aug. 21	1278	358	24	743
Thrasher. Flax-	A. Wannamaker	274,866	Mar. 27	2081	578	23	1215
Thrasher. Pea-	G. E. Luckey	275,052	Apr. 3	230	60	23	1264
Thrasher-stacker	D. Sherry	272,487	Feb. 20	1141	320	23	654
Thrasher stacker-base	D. Sherry and F. W. Robinson	272,488	Feb. 20	1142	320	23	654
Thrashing and cleaning machine	J. Miller	275,244	Apr. 3	460	128	23	1305
Thrashing and cleaning machines. Wind-gage for	J. E. Curry	276,781	May 1	327	85	23	1662
Thrashing and clover-hulling machine	A. W. Lockhart	285,422	Sept. 25	1552	437	24	1192
Thrashing and separating machine. Grain	J. Miller	274,097	Mar. 13	1068	300	23	1028
Thrashing-machine	B. F. Applegate	282,693	Aug. 7	263	76	24	545
Thrashing-machine	J. Bower	284,600	Sept. 11	539	152, 153	24	1002
Thrashing-machine	S. Coats	283,206	Aug. 14	877	245	24	663
Thrashing-machine	J. Ellis	285,595	Sept. 25	1752	497	24	1229
Thrashing-machine	W. J. Jackson	285,036	Sept. 18	1092	304	24	1105
Thrashing-machine	J. C. Laquey	273,551	Mar. 6	399	107	23	902
Thrashing-machine	A. Love	273,113	Feb. 27	1938	543	23	800
Thrashing-machine	A. W. Mantle	278,716	June 5	53	16	23	2134
Thrashing-machine	A. W. Mantle	278,717	June 5	55	17	23	2134
Thrashing-machine	J. H. Melick	277,595	May 15	1335	358, 359	23	1886
Thrashing-machine	G. F. Messinger	290,647	Dec. 18	1613	444	25	1185
Thrashing-machine	S. E. Oviatt	277,055	May 8	685	178	23	1749
Thrashing-machine	G. A. Roberts and C. Schafer	277,347	May 8	1037	278	23	1811
Thrashing-machine	J. Rumely	277,512	May 15	1233	332	23	1851
Thrashing-machine	J. C. Schneider	274,395	Mar. 20	1480	407	23	1105
Thrashing-machine	H. Stephan	280,258	June 26	2017	567	23	2492
Thrashing-machine and separator	S. Hamilton	287,925	Nov. 6	170	49	25	537
Thrashing-machine and separator. Combined	W. Rath	276,467	Apr. 24	2051	570	23	1601
Thrashing-machine band-cutter and feeder	D. Dowd	290,547	Dec. 18	1489	412	25	1164
Thrashing machine. Clover and grain	D. Lippy and Z. S. Stocking	287,304	Oct. 23	1932	528	25	369
Thrashing-machine cutting and feeding attachment	D. Dowd	279,725	June 19	1380	385	23	2273
Thrashing-machine derrick-table and feeder	M. N. Laufenburg	286,316	Oct. 9	684	182	25	134
Thrashing-machine feeder and band-cutter	J. A. Hughes and R. C. Blackwell	283,710	Aug. 21	1496	422	24	784
Thrashing-machine feeders. Supply apparatus for	J. P. Cobb	276,225	Apr. 24	1737	481	23	1548
Thrashing-machine feeding mechanism	Z. S. Stocking	289,724	Dec. 4	443	124	25	964
Thrashing-machine grain-separator	W. A. Robinson	274,386	Mar. 20	1466	402	23	1102
Thrashing-machine screen	W. G. Scott and H. Campbell	286,853	Oct. 16	1351	370	25	260
Thrashing-machine separator	W. J. Dunlap	271,046	Jan. 23	1507	434	23	307
Thrashing-machine separator	W. N. Rumely	284,675	Sept. 11	635	180	24	1017
Thrashing-machine separator and cleaner	W. C. Buchanan	278,502	May 29	2476	675	23	2081
Thrashing-machine straw-carrier	E. Huber and F. Strobel	286,930	Oct. 16	1446	397	25	275
Thrashing-machine straw-carrier	E. A. Palmer	289,442	Dec. 4	82	24	25	901
Thrashing-machine straw-stacker	E. L. Perry	270,471	Jan. 9	782	229	23	168
Thrashing-machine straw-stacker	D. D. and P. J. Sprague. (Reissue)	10,406	Nov. 20	1469	406	25	781
Thrashing-machine straw-stacker	D. D. and P. J. Sprague	289,461	Dec. 4	103	30	25	905
Thrashing-machine straw-stacker	D. D. and P. J. Sprague	289,462	Dec. 4	105	30	25	905
Thrashing-machine straw-stacker attachment	D. D. and P. J. Sprague	284,507	Sept. 4	427	121	24	976
Thrashing-machine straw-stacking attachment	C. D. and P. J. Sprague	289,460	Dec. 4	101	29	25	904
Thrashing-machine tooth	M. L. Horner	282,027	July 24	2125	582	24	397
Thrashing-machine weighing apparatus	F. F. Neitzel	270,331	Jan. 9	600	177	23	127
Thrashing-machines. Revolving riddle for	L. T. Smith	282,790	Aug. 7	379	107	24	566
Thread-guide and tension device	R. Wharton	272,812	Feb. 20	1547	434	23	737
Thread-holder	J. T. Walker	275,736	Apr. 10	1196	308	23	1427
Thread-holder	J. T. Walker	283,689	Aug. 21	1468	414	24	779
Thread-mosaic	F. E. Forster	284,406	Sept. 4	301	85	24	955
Ticket-case	J. L. Ferguson	278,925	June 5	386	106	23	2189
Ticket-case	J. L. Kirk	272,708	Feb. 20	1415	397	23	702
Ticket-distributing box	S. B. Whitehead	286,352	Oct. 9	737	194	25	142
Ticket-holder	W. B. Van Amringe	287,486	Oct. 30	2160	586	25	490
Ticket holder and press. Railway and other	J. Loudon	280,049	June 26	1779	499	23	2449
Ticket. Passenger-	J. M. Reynolds	288,594	Nov. 13	1014	279	25	693
Ticket. Railway-	J. W. Womeldorff	286,101	Oct. 2	397	109	25	73
Tide. Apparatus for utilizing the ebb and flow of the	N. L. Forster	285,251	Sept. 18	1341	377	24	1149
Tidy-fastener	W. W. Geodale	288,996	Nov. 27	1510	418	25	795
Tie:							
See Bag, bale, and bundle tie.	Package-tie.						
	Rail-tie.						
Bale-tie.	Railway-tie.						
Belt-tie.	Railway cross-tie.						
Cattle-tie.	Railway metallic cross-tie.						
Cross-tie.	Umbrella-tie.						
Necktie.							
Tile and brick machine	A. W. Bodell	281,606	July 17	1582	433	24	289
Tile and constructions made therefrom. Illuminating grating.	T. Hyatt	289,538	Dec. 4	208	58	25	923
Tile and drain cutter	E. D. Howland	286,896	Oct. 16	1317	359	25	254

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tile, architectural terra-cotta work, and pottery articles.	J. Lynch	271,088	Jan. 23	1561	450	23	317
Tile. Drain	J. Lynch	271,089	Jan. 23	1562	450	23	317
Tile-fastening	A. Chase	282,164	July 31	2316	636	24	425
Tile for floors, &c. Metallic	A. H. Lord	285,636	Sept. 25	1804	514	24	1239
Tile hearth or vestibule-floor	I. L. Frankem	287,373	Oct. 23	2015	548	25	384
Tile. Illuminating	D. G. Beeching	272,629	Feb. 20	1321	370	23	686
Tile. Illuminating	J. Jacobs	290,584	Dec. 18	1536	423	25	1172
Tile-laying machine	C. A. Barnes	285,206	Sept. 18	1289	363	24	1139
Tile-machine	C. J. Merrill	281,711	July 24	1727	469	24	319
Tile-machine	G. Potts	274,514	Mar. 27	1661	462	23	1142
Tile-machine table	W. F. Leach	279,259	June 12	801	222	23	2270
Tile. Sewer and drain	G. J. M. Porter	270,476	Jan. 9	787	210	23	164
Tile. Underground-drain	T. W. Larrabee	272,270	Feb. 13	851	237	23	600
Tiles, bricks, &c. Manufacture of	I. B. Shaw	288,876	Nov. 20	1363	.....	25	760
Tiles. Device for handling drain	J. Ross	287,227	Oct. 30	2483	669	25	482
Tiles, plaques, &c. Manufacturing decorated	W. B. Herbert	273,527	Mar. 6	367	.....	23	897
Tiling apparatus	L. E. and I. J. Chamberlin	270,932	Jan. 23	1367	394, 395	23	285
Tiling for vaults, &c. Illuminating	C. H. Ross	270,132	Jan. 2	357	104	23	73
Till-alarm	C. C. Huling	273,086	Feb. 27	1895	532	23	793
Tilling-machine	C. E. Sackett	279,819	June 19	1482	415	23	2391
Tilting and revolving chair	H. A. Kimball and C. Kilburn	270,081	Jan. 2	295	88	23	60
Tilting can	C. T. Draper	274,923	Apr. 3	47	12	23	1233
Tilting gate. Automatic	F. Kennedy	271,336	Jan. 30	1868	542	23	377
Time and non-time lock. Combined	W. Kock	272,063	Feb. 13	596	161, 162	23	555
Time-controlling system	W. F. Gardner	287,015	Oct. 23	1563	431, 432	25	301
Time-detector. Electric	T. Ahearn	287,401	Oct. 30	2055	559	25	399
Time-detector. Watchman's	L. Van Bunnen	290,946	Dec. 25	2005	552, 553	25	1260
Time-detector. Watchman's	H. J. Wenzel	276,740	May 1	273	69	23	1671
Time-detector. Watchman's electric	J. E. Richards	270,125	Jan. 2	343	101	23	70
Time-keepers. Reversible center-pinion for	C. E. Mason	288,087	Nov. 6	367	102	25	570
Time-lock	B. F. Flint	276,381	Apr. 24	1943	538	23	1583
Time-lock	B. F. Flint	276,382	Apr. 24	1946	538	23	1583
Time-lock	B. F. Flint	276,383	Apr. 24	1947	538, 539	23	1583
Time-lock	H. F. Newbury	283,645	Aug. 21	1411	395	24	768
Time-lock	H. C. Stockwell	280,260	June 26	2020	568	23	2492
Time-lock	E. and H. C. Stockwell	290,609	Dec. 18	1570	431	25	1177
Time-lock. Electric	W. E. Peirce	287,775	Oct. 30	2554	687	25	494
Time-locks. Mounting	H. F. Newbury	284,049	Aug. 28	1931	540	24	872
Time-locks. Mounting	H. F. Newbury	284,142	Aug. 28	2055	570	24	893
Time mechanism. Quarter-second	J. Karr	273,100	Feb. 27	1924	538, 539	23	797
Time-piece	F. Schuetz	276,892	May 1	458	123	23	1707
Time-piece hand	P. G. Russell	290,116	Dec. 11	919	281	25	1057
Time-pieces. Compensating-balance for	E. Osgood	278,173	May 22	2030	558	23	1995
Time-pieces. Electric synchronising apparatus for	J. Hamblet	270,058	Jan. 2	273	79	23	56
Time-pieces. Winding-indicator for	B. F. Mersemann	287,559	Oct. 30	2249	610	25	438
Time-recorder. Watchman's	G. N. Fillis	273,351	Mar. 6	147	41	23	859
Time-recorder. Watchman's	A. M. Johnson	287,291	Oct. 23	1915	524	25	366
Time-signal	D. T. Bound and C. A. Boone	279,696	June 19	1349	375, 376	23	2367
Time-signal	J. Johnson	286,616	Oct. 16	1054	284	25	208
Time-signal and train-indicator	R. P. Garsed	290,766	Dec. 25	1778	491	25	1222
Tin cans. Machine for scouring and polishing	F. G. Cass	279,222	June 12	758	209	23	2263
Tin cans. Machine for use in the manufacture of	W. Hipperling	281,508	July 17	1461	401	24	270
Tin from tin-scrap by electricity. Removing	J. L. Delaplaine, J. G. Hendrickson, and F. J. Clamer.	282,964	Aug. 14	579	164	24	610
Tin, &c. Machine for cutting	G. B. Wiggin	272,501	Feb. 20	1157	324, 325	23	657
Tin-plate and other sheet metal. Ornamenting surfaces of	A. N. Hopkins and G. Hatton	286,823	Oct. 16	1313	.....	25	253
Tinner's machinery	N. G. Fair	271,440	Jan. 30	2004	578	23	402
Tire for wagon-wheels. Supplementary	M. L. Trowbridge	271,998	Feb. 6	509	137	23	528
Tire-heating furnace	W. Lewis	278,153	May 22	2002	550	23	1990
Tire-setter	H. D. Bokop	274,168	Mar. 20	1189	327	23	1054
Tire-setter	C. H. Smith	281,574	July 17	1539	422	24	282
Tire-setter	J. P. Weller	276,944	May 1	537	139	23	1718
Tire-setter	F. Winne	275,967	Apr. 17	1420	391	23	1486
Tire-tightener	S. Basford	274,701	Mar. 27	1884	525	23	1189
Tire-tightener	J. B. Cypert	274,179	Mar. 20	1201	330	23	1056
Tire-tightener	D. P. Evans	271,050	Jan. 23	1511	435	23	308
Tire-tightener	A. Galbraith	281,485	July 17	1438	394	24	965
Tire-tightener	H. B. May	289,114	Nov. 27	1655	459	25	690
Tire-tightener	J. S. Pursley	288,954	Nov. 20	1459	403	25	778
Tire-tightener	B. F. Roberts	273,608	Mar. 6	473	127	23	915
Tire-tightener	M. B. Smyth	279,035	June 5	519	141	23	2211
Tire-tightening apparatus	P. and J. Young	272,826	Feb. 20	1564	440	23	730
Tire-upsetter	L. K. Miller	273,580	Mar. 6	441	119	23	910
Tire-upsetter	W. Valentine	278,836	June 5	223	66	23	2161
Tire-upsetter	F. E. and F. O. Wells	269,901	Jan. 2	94	28	23	20
Tire. Vehicle-wheel	M. Chase	271,194	Jan. 23	1689	487	23	337
Tire. Vehicle-wheel	J. P. Weller	276,943	May 1	536	139	23	1718
Tire. Wheel	M. A. Pigott	289,358	Nov. 27	1948	541	25	875
Tire. Wheel	J. T. Prior	273,147	Feb. 27	1981	557	23	809
Tires. Device for removing	N. B. Hervey	275,909	Apr. 17	1356	373	23	1474
Tires. Device for securing wheel	D. Shelton	289,719	Dec. 4	440	123	25	963
Tires on wheels. Machine for shrinking	J. W. Bartlett	285,553	Sept. 25	1701	479, 480	24	1290
Toasting bread and broiling meats, &c. Apparatus for	M. S. Gibson	281,683	July 24	1687	460	24	312

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drgs.	Vol.	Page.
Toasting-fork	E. Brookes	270,277	Jan. 9	531	156	23	114
Tobacco. Aging leaf	J. W. Daniel	269,532	Jan. 2	17	6	23	6
Tobacco, &c. Apparatus for drying or cleaning	S. B. Conover	275,596	Apr. 10	947	257	23	1386
Tobacco. Apparatus for separating stems and dust from granulated	J. B. Adt	288,911	Nov. 20	1406	367	25	709
Tobacco-box	W. Riley	275,944	Apr. 17	1395	384	23	1461
Tobacco-caddy. Tin	G. T. Tuckett	272,921	Feb. 27	1708	478	23	760
Tobacco-cutter	J. S. Beach	271,768	Feb. 6	219	61	23	478
Tobacco-cutter	T. F. Casad	289,975	Dec. 11	748	211	25	1025
Tobacco-cutter	G. Chapman	270,178	Jan. 2	411	120	23	84
Tobacco-cutter	J. W. Covel	289,695	Dec. 4	312	87	25	942
Tobacco-cutter	O. R. Hanchett	286,607	Oct. 16	1040	291	25	285
Tobacco-cutter	J. L. Haven	283,779	Aug. 28	1591	449	24	813
Tobacco-cutting machine	J. Smead	289,864	Dec. 11	616	172	25	1001
Tobacco cutting, separating, and mixing machine	C. Abner	283,739	Aug. 28	1537	435	24	803
Tobacco-drier	A. W. Walker	281,168	July 10	1019	285	24	127
Tobacco in cases. Packing	M. Tobin	290,818	Dec. 25	1647	511	25	1234
Tobacco-jars. Porous cover for	C. B. Hull	280,477	July 3	179	47	24	33
Tobacco. Machine for preparing and distributing	E. F. Leblond	290,333	Dec. 18	1196	335	25	1113
Tobacco-moistening pad	C. N. Swift	290,140	Dec. 11	949	268	25	1062
Tobacco-moistening tray	C. N. Swift	290,141	Dec. 11	949	268	25	1062
Tobacco molds or shapes. Composition of matter for greasing plug-	I. H. Huddleston	281,997	July 24	2085	.....	24	332
Tobacco-pail cover	E. B. McIntyre	280,844	July 10	632	178	24	117
Tobacco-pipe	A. Burbank	270,562	Jan. 9	905	261	23	136
Tobacco-pipe	J. O. Kilroy	286,020	Oct. 2	296	62	25	35
Tobacco-pipe	E. Trieloff	288,392	Nov. 13	751	204	25	646
Tobacco. Plug-	J. and C. A. Norburn	284,321	Sept. 4	202	56	24	938
Tobacco-pouch	A. W. Brinkerhoff	271,028	Jan. 23	1485	428	23	304
Tobacco. Preparing extracts of	O. Liebreich and H. Michaelis	283,622	Aug. 21	1385	.....	24	763
Tobacco-press	A. W. Mabon	277,912	May 22	1707	466	23	1940
Tobacco press. Plug-	W. T. Green	276,690	May 1	188	48	23	1656
Tobacco-receptacle	E. Mason	274,954	Apr. 3	90	25	23	1241
Tobacco-reweating device	B. Martin	278,029	May 22	1853	506	23	1964
Tobacco-tagging machine. Plug-	G. H. Lasar	272,271	Feb. 13	852	232	23	600
Tobacco. Treating	E. Howard	273,362	Mar. 6	162	45	23	802
Toe-weight	J. Fenton	270,941	Jan. 23	1381	399	23	227
Toe-weight	C. B. Hitchcock	288,636	Nov. 20	1068	293	25	708
Toe-weight	D. Roberge	279,667	June 19	1314	365	23	2361
Toggle-press	C. H. Weston	276,108	Apr. 17	1595	{440 441}	23	1516
Toilet-case	M. A. Byrne	283,071	Aug. 14	711	200	24	634
Toilet-case	L. Wolf	279,302	June 12	855	237	23	2279
Toilet implement	W. H. Miles, Jr	289,550	Dec. 4	224	63	25	925
Toilet-paper pocket-case	J. F. Peacock	273,594	Mar. 6	458	123	23	913
Toilet-set box	F. Zander	275,110	Apr. 3	300	83	23	1272
Toilet-set case	J. O. Jasmagy and D. H. Frost	274,610	Mar. 27	1778	494	23	1163
Toilet-set case	H. Pattberg	279,272	June 12	690	226	23	2273
Toilet-stand. Portable	J. C. Milligan	270,459	Jan. 9	770	225	23	159
Tombstone	W. Mould	274,638	Mar. 27	1807	502	23	1189
Tombstones and monuments. Device for handling, &c.,	W. H. Sanders	279,191	June 12	728	199	23	2257
Tongs	W. H. Evans	276,572	May 1	38	10	23	1633
Tongs	I. A. Murchison	282,105	July 31	2231	613	24	412
Tongs and cutter. Pipe	H. Herbert	287,378	Oct. 23	2021	549	25	385
Tongs and wrench. Combined pipe-	E. F. Barnes	282,256	July 31	2431	669	24	445
Tongs. Automatic	A. S. Adams	273,243	Mar. 6	1	1	23	835
Tongs. Blacksmith's	G. M. Bird	281,437	July 17	1368	377	24	253
Tongs. Brick-	D. Ralston	272,320	Feb. 13	907	254	23	610
Tongs. Crimping-	F. R. Packham	273,382	Mar. 6	189	51	23	886
Tongs. Lifting-	S. W. Hudson	270,069	Jan. 2	283	84	23	58
Tongs. Lifting-	M. C. Ward	282,134	July 31	2285	627	24	420
Tongs or fork. Spring	F. H. Cilley	284,118	Aug. 28	2023	563	24	888
Tongs or wrenches. Attachment for pipe	C. H. Miller	273,874	Mar. 13	825	223	23	983
Tongs. Pipe-	D. P. Foster	286,600	Oct. 16	1032	279	25	304
Tongs. Pipe-	T. Patton	278,264	May 22	2152	591	23	2015
Tongs. Pipe-	H. Rhyz	286,847	Oct. 16	1346	368	25	259
Tongs. Pipe-	D. E. Stewart	283,164	Aug. 14	822	230	24	652
Tongs. Pipe-	J. L. Strait	290,810	Dec. 25	1838	508	25	1232
Tongs. Pipe-	G. W. Wilbur	284,933	Sept. 11	945	266	24	1072
Tongs. Roofing-	T. Schwarz	288,498	Nov. 13	901	245	25	672
Tongue and caster attachment for agricultural implements.	S. C. Mendenhall	280,209	June 26	1952	{548 549}	23	2480
Tongue. Hinged	W. A. Rusler	287,328	Oct. 23	1961	535	25	375
Tongue-support	D. C. Ballard	283,188	Aug. 14	855	239	24	656
Tongue-support	A. J. Beach	280,896	July 10	688	193	24	128
Tongue-support	A. S. Brown	272,024	Feb. 13	549	148	23	547
Tongue-support	J. M. Haas	278,938	June 5	399	109	23	2191
Tongue-support	J. McConnell and E. H. Taylor	289,013	Nov. 27	1529	423	25	798
Tongue support. Wagon-	J. R. Chadwick	288,407	Nov. 13	788	213	25	653
Tongue support. Wagon-	F. Tripp, Sr	282,405	July 31	2619	719	24	478
Tongue support. Wagon-	J. W. Wetmore	279,895	June 19	1577	442	23	2408
Tongue support. Wagon-	H. Wood	272,180	Feb. 13	738	204	23	560
Tongue support. Wagon-	H. M. Woodford	284,529	Sept. 4	452	128	24	981
Tongue. Vehicle-	T. P. Case	278,505	May 29	2479	676	23	2092
Tongue. Vehicle-	H. J. Roberts	278,275	May 22	2164	596	23	2017
Tongue. Wagon-	H. Koch	274,342	Mar. 20	1417	388	23	1093
Tongue. Wagon-	T. B. Sykes	272,794	Feb. 20	1525	429	23	722
Tool. Cast jointed	J. H. Davis	271,043	Jan. 23	1502	433	23	306
Tool. Combination-	F. L. Armstrong	280,995	July 10	808	225	24	149
Tool. Combination-	C. H. Barr	288,397	Nov. 13	778	210	25	650
Tool. Combination-	R. Erdman and W. Phillips	276,793	May 1	340	91	23	1665
Tool. Combination-	H. U. Kistner	271,868	Feb. 6	342	94	23	501
Tool. Combination-	C. E. Marshall	286,458	Oct. 9	847	230	25	165

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tool. Combination	A. E. Nelson	280,849	July 10	635	179	24	118
Tool. Combination	R. P. Pearson	285,304	Sept. 18	1400	396	24	1160
Tool. Combination	I. T. Torrey	285,708	Sept. 25	1885	537	24	1254
Tool. Combination	R. G. Yonge	284,109	Aug. 28	2007	559	24	885
Tool. Convertible	H. Port	290,106	Dec. 11	903	257	25	1054
Tool for grasping and holding	S. B. McLane	275,341	Apr. 3	604	163	23	1328
Tool for grasping and holding articles	T. G. Hall	275,335	Apr. 3	593	159	23	1327
Tool for housekeepers. Combination	T. B. Taylor	271,000	Jan. 23	1455	419	23	299
Tool-guiding device. Automatic	C. A. Lougee	287,838	Nov. 6	58	17	25	518
Tool-handle	E. Buell	289,501	Dec. 4	164	45	25	915
Tool-handle	R. C. Ellrich	288,560	Nov. 13	970	267	25	685
Tool-handle	C. M. Fairbanks	285,802	Oct. 2	25	9	25	6
Tool-handle	C. M. Fairbanks	286,124	Oct. 2	422	115	25	78
Tool-handle	J. S. Fray	282,712	Aug. 7	296	84	24	551
Tool-handle	J. F. French	285,990	Oct. 2	259	73	25	49
Tool-handle	C. Heaton	290,581	Dec. 18	1533	422	25	1171
Tool-handle	G. A. Small	273,621	Mar. 6	487	131	23	917
Tool-handle	Z. Tremblay	274,414	Mar. 20	1501	414	23	1108
Tool-handle	S. Wales	281,418	July 17	1348	372	24	250
Tool-handle and extension-blade	H. F. Case	272,944	Feb. 27	1735	484	23	764
Tool-holder	W. T. Lander	274,341	Mar. 20	1418	389	23	1094
Tool-holder	J. F. Thayer and F. A. Smith, Jr.	274,232	Mar. 20	1271	351	23	1068
Tool-holder. Adjustable	G. H. Strong	273,632	Mar. 6	502	135	23	920
Tool-holder for grinding tools	J. R. Kennett	271,249	Jan. 30	1751	506	23	257
Tool holder. Ratchet	W. E. Thayer	291,007	Dec. 25	2094	577	25	1274
Tool. Pivoted hand	M. C. Johnson	273,549	Mar. 6	398	106	23	902
Tool-sharpener	G. H. Strong	277,957	May 22	1760	480	23	1947
Tooth. Artificial	L. T. Foss	275,625	Apr. 10	996	269	23	1404
Tooth. Artificial	L. T. Foss	275,626	Apr. 10	997	269	23	1404
Tooth. Artificial	W. S. How	275,491	Apr. 10	823	223	23	1375
Tooth. Artificial	W. S. How	276,245	Apr. 24	1763	491	23	1553
Tooth. Artificial	C. H. Land	271,476	Jan. 30	2058	593	23	411
Tooth. Artificial	C. M. Richmond	277,937	May 22	1736	474	23	1944
Tooth. Artificial	N. Robbins, 2d	279,187	June 12	723	198	23	2257
Tooth. Artificial	E. T. Starr	276,920	May 1	491	129	23	1712
Tooth. Artificial	W. H. Taylor	278,468	May 29	2435	664	23	2074
Tooth-crown	C. M. Richmond	277,940	May 22	1738	474	23	1944
Tooth-crown. Artificial	W. S. How	282,639	Aug. 7	198	57	24	534
Tooth-crown. Artificial	W. S. How	288,177	Nov. 6	476	131	25	590
Tooth-crown. Artificial	A. E. Matteson	280,052	June 26	1782	500	23	2449
Tooth-crown. Artificial	S. M. Roach	288,492	Nov. 13	894	243	25	671
Tooth-crown. Artificial	H. Weston	275,554	Apr. 10	899	244	23	1388
Tooth-crown. Artificial	H. Weston	277,392	May 8	1085	292	23	1819
Tooth-crown. Artificial	H. Weston and E. T. Starr	287,354	Oct. 23	1990	543	25	380
Tooth-pick package	G. R. Schimmel	281,731	July 24	1756	476	24	323
Tooth. Spring	P. F. Wells	280,104	June 26	1841	519	23	2460
Top	C. M. Kimball	272,707	Feb. 20	1414	397	23	702
Top	J. H. Sunderman	282,129	July 31	2279	625	24	418
Top	J. H. Sunderman	287,591	Oct. 30	2305	624	25	448
Top. Musical	M. Dannhorn	271,428	Jan. 30	1986	573	23	309
Top-prop	J. H. Cloyes	282,611	Aug. 7	164	49	24	529
Top-prop	W. Lepper	278,244	May 22	2121	584	23	2011
Top-prop	W. Lepper	282,998	Aug. 14	626	177	24	618
Top. Spinning	T. Claery	286,177	Oct. 9	488	135	25	101
Torch	H. McPherson	270,600	Jan. 16	957	277	23	204
Torch	H. Wellington	284,346	Sept. 4	228	64	24	943
Torch and lamp opener	A. C. Humphreys	288,439	Nov. 13	824	223	25	659
Torch for lighting gas. Telescopic safety	T. W. Houchin	282,522	Aug. 7	58	17	24	510
Torch. Gas-lighting	T. W. Houchin	273,085	Feb. 27	1894	531, 532	23	793
Tornado-breaker. Automatic	W. S. Blunt	290,966	Dec. 25	2040	561	25	1965
Torpedo-boat	B. B. Hotchkiss	278,708	June 5	41	12, 13	23	2132
Torpedo. Floating	A. Weeks	274,069	Mar. 13	1054	290, 291	23	1022
Torpedo-holding attachment for railway danger-signals	J. A. Bonnell	290,391	Dec. 18	1968	356	25	1126
Torpedo. Railway	J. H. Bevington	273,441	Mar. 6	258	70	23	877
Torpedo. Railway	W. S. Phelps	285,671	Sept. 25	1841	525	24	1246
Torpedo. Rocket	A. Weeks	274,067	Mar. 13	1049	289, 290	23	1022
Torpedo-signal for railways	T. G. Palmer	285,920	Oct. 2	180	52	25	35
Torpedo-signal placer	G. W. Metcalfe and M. F. Haber	284,463	Sept. 4	369	102	24	986
Torpedo. Spar	A. Weeks	273,413	Mar. 6	224	60	23	872
Torpedo. Submarine	J. W. Graydon	270,950	Jan. 23	1390	401, 402	23	289
Torpedoes. Device for launching rocket	A. Weeks	274,068	Mar. 13	1053	290	23	1022
Torpedoes. Manipulating and firing marine	T. M. Brasher	287,221	Oct. 23	1828	501	25	351
Torpedoes on railway-tracks. Mechanism for placing	S. F. Allen	286,249	Oct. 9	577	158	25	116
Towel-holder	G. S. Gifford	280,464	July 3	165	45	24	30
Towel, napkin, &c., holder	C. H. Hershey	275,040	Apr. 3	209	57	23	1262
Towel-rack. Nursery	T. F. Brady	274,457	Mar. 27	1570	429	23	1127
Tower	B. F. Orton	290,099	Dec. 11	895	255	25	1051
Tower and signal-lantern. Watch	C. S. Parkhill	271,261	Jan. 30	1770	513	23	359
Towers. Constructing	E. J. O'Beirne	279,422	June 12	1020	283	23	2305
Towing-boat	J. Collins	283,573	Aug. 21	1336	373	24	753
Toy	M. C. Bogia	286,379	Oct. 9	755	203	25	147
Toy	E. S. Chapelle	286,262	Oct. 9	591	162	25	118
Toy	W. E. Crandall	271,427	Jan. 30	1985	573	23	399
Toy	G. S. Crosby	276,524	Apr. 24	2124	591	23	1614
Toy	J. Fallows	278,694	June 5	24	7	23	2129
Toy	W. R. Fowler	285,354	Sept. 18	1459	411	24	1170
Toy	A. Green	279,743	June 19	1398	390	23	2376
Toy	E. Holden	276,586	May 1	55	16	23	1637

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Toy	E. R. Ives	290,185	Dec. 11	997	281	20	1071
Toy	W. Leggett	272,275	Feb. 13	858	240	23	601
Toy	W. Leggett	277,561	May 15	1321	355	23	1864
Toy	A. Roelofs	282,778	Aug. 7	365	103	24	564
Toy	L. Schoenfeld	271,278	Jan. 30	1790	519	23	363
Toy	C. F. Shourds	278,462	May 29	2427	662	23	2073
Toy	C. F. Shourds	288,265	Nov. 13	595	163	25	619
Toy	L. F. Smith	272,168	Feb. 13	723	199	23	577
Toy	J. Stanton and C. Reling	275,282	Apr. 3	508	140	23	1313
Toy	P. G. Thomson	270,511	Jan. 9	842	243, 244, 245	23	174
Toy	P. G. Thomson	276,097	Apr. 17	1580	436	23	1513
Toy	A. Vick	281,948	July 24	2031	555	24	373
Toy and game. Combined	G. H. Ireland	284,965	Sept. 11	986	277, 278	24	1080
Toy animal	C. F. Ritchel	289,562	Dec. 4	238	67	25	928
Toy. Bandelore	M. Streisguth and E. Schnitzler	279,888	June 19	1568	439	23	2406
Toy bank	C. S. Barnard	272,189	Feb. 13	748	206	23	581
Toy bank	C. M. Henn	271,200	Jan. 23	1697	490	23	338
Toy bedstead or crib	W. S. Reed	279,665	June 19	1312	365	23	2361
Toy bird	S. R. Screven	278,461	May 29	2427	661	23	2072
Toy block	R. H. Ingersoll	272,443	Feb. 20	1079	304	23	644
Toy block	S. B. Scott	274,980	Apr. 3	194	35	23	1247
Toy building	M. E. Converse	271,603	Feb. 6	25	6	23	445
Toy building-block	W. E. Crandall	278,294	May 22	2095	577	23	2006
Toy cap-exploder	D. H. Murphy	273,879	Mar. 13	830	225	23	984
Toy car, wagon, or other vehicle	J. Fallows	273,046	Feb. 27	1852	519	23	788
Toy catapult	I. G. Bower and L. B. Myers	271,568	Jan. 30	2166	624	23	499
Toy. Combination	W. S. Reed	288,664	Nov. 20	1103	302	25	714
Toy dart	J. D. Hooker	282,638	Aug. 7	198	57	24	534
Toy drum	B. Rice	286,069	Oct. 2	357	99	25	66
Toy. Electric	R. Lemboke	278,565	May 29	2548	695	23	2094
Toy for children. Rocking	J. A. Crandall	270,891	Jan. 23	1314	380	23	276
Toy for the production of loud explosions	B. Ober	285,917	Oct. 2	178	51	25	34
Toy gun	C. C. Curtis and H. G. Lewis	287,507	Oct. 30	2184	593	25	494
Toy gun	F. M. Lewis	287,946	Nov. 6	199	58	25	542
Toy gun	H. P. Marks	277,496	May 15	1218	327, 328	23	1848
Toy gun	W. S. Reed	283,661	Aug. 21	1428	400	24	772
Toy gun	P. J. Trieller	285,368	Sept. 18	1478	416	24	1173
Toy hoop	T. K. Keith	275,771	Apr. 10	1181	324	23	1436
Toy hoop. Mechanical	W. R. Fowler	289,523	Dec. 4	189	53	25	919
Toy horse	F. W. Carpenter	274,270	Mar. 20	1318	364	23	1077
Toy horse and cart	F. W. Carpenter	287,095	Oct. 23	1668	458	25	332
Toy house	J. L. Dorin	282,965	Aug. 14	580	164	24	610
Toy jumping animal	C. F. Ritchel	280,330	June 26	2112	592	23	2508
Toy kitchen	E. Durlach	272,665	Feb. 20	1365	383	23	694
Toy kitchen	M. Miller	289,121	Nov. 27	1665	462	25	831
Toy knitting-machine	W. P. Stewart	289,578	Dec. 4	259	72	25	933
Toy. Knockdown or building-block	W. S. Reed	276,539	Apr. 24	2141	595	23	1617
Toy locomotive	S. H. Carr	273,347	Mar. 6	141	39	23	857
Toy locomotive-engine	W. H. Hall	281,360	July 17	1976	354	24	238
Toy. Mechanical	F. Aberle	289,491	Dec. 4	152	41	25	919
Toy. Mechanical	C. A. Bailey	281,427	July 17	1358	375	24	252
Toy. Mechanical	C. A. Crongeyer	271,696	Feb. 6	123	34	23	461
Toy. Mechanical	J. W. Perkins	279,275	June 19	822	227	23	2274
Toy. Mechanical	R. H. Ricker	271,273	Jan. 30	1783	518	23	362
Toy. Mechanical	W. X. Stevens	274,148	Mar. 20	1161	320	23	1048
Toy. Mechanical	W. X. Stevens. (Reissue)	10,319	Apr. 24	2154	589	23	1619
Toy. Mechanical	H. Thomass	281,320	July 17	1230	340	24	230
Toy milch cow	W. H. Mantz and R. Blum	275,053	Apr. 3	221	60	23	1264
Toy money-box	L. Kyser and A. C. Rex	281,377	July 17	1295	359	24	242
Toy money-box	W. S. Reed	289,140	Nov. 27	1687	468	25	836
Toy mortar	J. S. Baldwin	283,847	Aug. 28	1667	470	24	836
Toy or musical instrument	W. H. Frost	270,543	Jan. 9	881	255	23	182
Toy or self-righting egg	M. White, Sr	276,109	Apr. 17	1596	441	23	1516
Toy pistol	O. C. Butterweck	270,738	Jan. 16	1134	325	23	237
Toy pistol	O. C. Butterweck	279,128	June 12	657	180	23	2246
Toy pistol	D. A. Clark	273,956	Mar. 13	919	252	23	999
Toy pistol	D. A. Clark	281,455	July 17	1400	384	24	259
Toy pistol	H. S. Lockwood	286,455	Oct. 9	845	229	25	164
Toy pistol	J. H. Rose	287,589	Oct. 30	2295	621	25	446
Toy pistol	E. J. Steele	288,272	Nov. 13	604	165	25	621
Toy pistol	T. J. Young	287,987	Nov. 6	255	73	25	592
Toy pistol with numerical combination	J. E. Barbé	285,099	Sept. 18	1162	325	24	1117
Toy plane. Metal	S. R. Rust	282,468	July 31	2765	743, 744	24	491
Toy race-course	J. D. O'Donoghue	288,476	Nov. 13	874	237	25	668
Toy revolver	W. Fredricks and A. Brown	278,005	May 22	1825	498	23	1959
Toy. Revolving air	T. W. Bartholomew	272,846	Feb. 27	1614	451	23	745
Toy. Revolving air	T. W. Bartholomew	279,630	June 19	1269	352, 353	23	2354
Toy. Rotating	D. Heineke	275,209	Apr. 3	493	116	23	1299
Toy savings-bank	A. A. Hoffman	272,049	Feb. 13	577	156	23	552
Toy savings-bank	E. L. Morris	275,068	Apr. 3	248	68	23	1268
Toy stove	E. Durlach	272,664	Feb. 20	1364	382	23	694
Toy target	C. I. Snyder	270,141	Jan. 2	370	108	23	75
Toy target	S. L. Woodruff	288,605	Nov. 13	1028	282	25	696
Toy ten-pin table	J. Markees	270,088	Jan. 2	301	90	23	61
Toy theatrical stage	J. H. Singer	277,798	May 15	1572	429	23	1909
Toy. Trundle	C. A. Bailey	281,428	July 17	1359	375	24	252
Toy trundle or hoop	J. F. Bahret	276,746	May 1	281	71	23	1673
Toy vehicle	G. S. Crosby	276,227	Apr. 24	1739	482	23	1549

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Pages.
Toy vehicle	W. S. Reed	288,663	Nov. 20	1102	302	25	714
Toy velocipede	H. S. Lockwood	281,894	July 24	1969	538 539	24	362
Toy wagon	J. Murray	272,461	Feb. 20	1102	312	23	648
Toy. Wheel	J. L. M. Du Four	278,109	May 22	1949	533	23	1960
Trace-carrier	W. Bellairs	288,762	Nov. 20	1232	377	25	736
Trace-carrier	D. R. Bize	289,211	Nov. 27	1776	492	25	842
Trace-carrier	C. A. Brooks	274,712	Mar. 27	1892	528	23	1184
Trace-carrier	E. G. Latta	283,260	Aug. 14	947	264	24	676
Trace-carrier	C. F. Miller	287,456	Oct. 30	2120	576	25	411
Trace-carrier	R. Porter	276,461	Apr. 24	2045	568	23	1600
Trace-carrier	W. S. Young	279,474	June 12	1083	299	23	2315
Trace-coupling	J. M. Basinger	272,624	Feb. 20	1314	366	23	685
Trace-coupling	J. M. Basinger	283,320	Aug. 14	1016	285	24	689
Trace-detachor	J. D. Blakeman	286,767	Oct. 16	1243	336	25	240
Trace-eye guard	D. Kaltenbacher	281,079	July 10	912	255	24	168
Trace-fastener	W. L. Beach	289,375	Dec. 4	6	2	25	888
Trace-fastener	J. S. Miller	275,245	Apr. 3	461	128	23	1305
Trace guide. Rope-	C. R. Miller	290,455	Dec. 18	1365	377	25	1142
Trace. Harness-	G. S. Gates	289,403	Dec. 4	37	11	25	893
Trace-holder	B. R. Hughes	286,701	Oct. 16	1164	313	25	226
Trace holder and detacher	W. Standing	276,919	May 1	490	129	23	1712
Trace-holding attachment for hame-clips	G. W. Hall	287,826	Nov. 6	45	13	25	515
Trace-hook	C. H. Allen	272,182	Feb. 13	741	205	23	580
Trace-hook	C. P. Wakefield	272,175	Feb. 13	731	202	23	578
Trace-loop	G. F. Eberhard	288,626	Nov. 20	1057	291	25	707
Trace, &c., loop-clamp	J. Herkimer	279,385	June 12	978	271	23	2298
Trace-loop. Harness	L. B. Scharringhausen	273,163	Feb. 27	2000	563	23	812
Trace-support	G. W. Hall	284,843	Sept. 11	843	237	24	1054
Trace-supporter	G. F. Eberhard and J. E. Rens	289,519	Dec. 4	185	51	25	919
Traces. End-connecting device for rope	C. R. Miller	290,454	Dec. 18	1364	377	25	1142
Track-bolt lock	D. F. Blighton	278,678	June 5	4	1	23	2125
Track-bolt lock	D. F. Blighton	289,379	Dec. 4	10	4	25	888
Track-circuit connector	G. Westinghouse, Jr	282,249	July 31	2423	666	24	443
Track-circuit connector	G. Westinghouse, Jr	282,250	July 31	2425	667	24	443
Track-cleaner	J. Birnbaum and J. T. Richmond	287,411	Oct. 30	2066	561	25	401
Track-drill	E. S. Hart	286,298	Oct. 9	659	176	25	129
Track for traction-engines	J. Nixon	282,758	Aug. 7	343	97	24	560
Track-laying device	J. M. Goodwin	279,092	June 5	588	160 161	23	2294
Track-laying machine	F. F. Voigt	286,564	Oct. 9	970	263	25	188
Track. Portable transfer-	L. Ehrlich	270,405	Jan. 9	699	207	23	146
Traction-engine	R. S. Angell	282,944	Aug. 14	559	159	24	607
Traction-engine	L. E. Bandeller	280,999	July 10	814	226 227	24	151
Traction-engine	J. E. Birch	288,763	Nov. 20	1232	337	25	736
Traction-engine	W. A. Clarke	286,906	Oct. 16	1419	390	25	271
Traction-engine	J. H. Elward	272,670	Feb. 20	1370	384 385	23	695
Traction-engine	J. H. Elward	279,925	June 26	1618	455	23	2421
Traction-engine	I. S. Freeman	282,299	July 31	2488	663	24	454
Traction-engine	A. S. Hanscom	270,308	Jan. 9	569	167	23	121
Traction-engine	E. Huber	271,464	Jan. 30	2043	588	23	408
Traction-engine	N. Jackson	282,197	July 31	2366	651	24	432
Traction-engine	F. F. Landis	286,313	Oct. 9	675	180 181	25	132
Traction-engine	L. Lillard	278,154	May 22	2002	551	23	1990
Traction-engine	D. Lippy and J. Hughes	272,447	Feb. 20	1083	305 306	23	644
Traction-engine	P. H. Loud	271,343	Jan. 30	1873	543	23	377
Traction-engine	J. and H. McLaren	289,294	Nov. 27	1868	519	25	860
Traction-engine	C. D. Monnot	272,743	Feb. 20	1462	411	23	711
Traction-engine	W. E. Richardson	278,822	June 5	194	56 57 58	23	2156
Traction-engine	I. G. Rider, W. H. Snyder, and A. O. Frick.	277,784	May 15	1553	423	23	1907
Traction-engine	C. Rowe	271,129	Jan. 23	1606	461	23	394
Traction-engine	W. N. Rumely	280,519	July 3	223	59	24	40
Traction-engine	W. N. Rumely	284,238	Sept. 4	106	29	24	922
Traction-engine	W. N. Rumely	284,676	Sept. 11	636	180	24	1017
Traction-engine	W. H. Snyder and A. O. Frick	275,279	Apr. 3	505	139	23	1312
Traction-engine	G. A. Thode	287,593	Oct. 30	2310	625	25	449
Traction-engine	W. Wilkinson	280,428	July 3	113	30	24	21
Traction-engine	A. O. Willson	281,813	July 24	1867	510	24	344
Traction-engine and stubble harvester and consumer	B. S. Benson	281,604	July 17	1579	432	24	288
Traction-engine brake	R. W. Aitken	288,753	Nov. 20	1220	333	25	734
Traction-wheel	J. Austin	269,990	Jan. 2	197	57	23	41
Traction-wheel	J. Enright	276,530	Apr. 24	2129	592	23	1615
Traction-wheel	O. F. Gilbert	275,035	Apr. 3	205	55	23	1260
Traction-wheel	L. Hall	270,662	Jan. 16	1035	297	23	218
Traction-wheel	A. J. Hoag	273,532	Mar. 6	373	99	23	898
Traction-wheel	F. F. Landis	286,312	Oct. 9	672	179 180	25	132
Traction-wheel	J. W. McNeely	279,963	June 26	1668	469	23	2429
Traction-wheel	F. E. Young	282,022	July 24	2118	580	24	386
Train-arrester. Electric	H. W. Carlton	277,990	May 22	1805	493	23	1956
Train-conveyer. Endless	G. Crehore	282,959	Aug. 14	574	162	24	609
Train-indicator	O. M. Shepard	272,783	Feb. 20	1509	425	23	720
Train-order signal	J. S. Trites	271,547	Jan. 30	2141	616	23	425
Train-stopping and signaling apparatus for landslides. Electrical	W. P. Phelps	288,480	Nov. 13	881	238 239	25	669
Trains and signaling. Automatically stopping	W. C. Shaffer and A. M. White	276,905	May 1	475	125	23	1706
Trains, signaling, &c. Apparatus for stopping	W. C. Shaffer	276,904	May 1	474	125	23	1706

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Trammel	W. D. Herschel	272,047	Feb. 13	576	156	23	532
Tramway	R. S. Cunningham, C. V. Houssart, and W. May.	275,808	Apr. 17	1237	340	23	1453
Tramway, &c. Elevated	C. J. Quetil	278,819	June 5	189	55	23	2155
Transferring designs	J. M. Moss	272,575	Feb. 20	1254	.....	23	674
Transferring designs	J. W. Osborne	282,111	July 31	2239	616, 617	24	413
Transferring designs. Method of and apparatus for	J. W. Osborne	282,112	July 31	2248	617, 618	24	414
Transferring figures upon glass. Machine for	W. S. Cogswell	282,168	July 31	2327	641, 642	24	426
Transit-instruments. Solar attachment for	R. M. Jones	270,679	Jan. 16	1057	302	23	222
Transom-lifter	R. J. Carson	279,858	June 19	1536	429	23	2400
Transom-lifter	H. J. Hardenbergh and G. A. Weinreich.	285,811	Oct. 2	37	12	25	9
Transom-lifter	G. Hayes	280,035	June 26	1762	495	23	2446
Transom-lifter	W. Leggott	282,334	July 31	2535	694	24	462
Transparency. Microscopic photographic	F. B. Gould	271,838	Feb. 6	308	84	23	495
Transplanter	W. Spitznass	273,181	Feb. 27	2019	568	23	815
Transplanter and cutter. Sod	C. I. Calvert	284,720	Sept. 11	695	195	24	1038
Transplanter and post-hole digger	F. E. Kohler	281,194	July 10	1059	292	24	194
Transplanter for tobacco and other plants	S. S. Neblett	275,253	Apr. 3	470	131	23	1306
Transplanting implement	J. M. Lindsey	275,505	Apr. 10	838	227	23	1377
Transplanting-instrument	F. Visscher	289,185	Nov. 27	1745	485	25	836
Transplanting-instrument	F. Visscher	289,186	Nov. 27	1746	485	25	836
Transportable engine	C. Sörensen	275,089	Apr. 3	275	75	23	1273
Trap: *See* Air and steam trap. Animal-trap. Ball-trap. Fish-trap. Gas-trap. Grease-trap. Hydraulic trap. Insect-trap. Mercury-seal trap. Mole-trap. Moth-trap. Mouse-trap. Plumber's trap. Pressure-gage trap. Rat-trap. Roach-trap. Seal-trap. Seal-joint trap. Sewer-trap. Sewer and stench trap. Sewer-gas trap. Sink-trap. Steam-trap. Stench-trap. Waste-trap.							
Trap	R. W. Armstrong	277,656	May 15	1408	379	23	1879
Trap	J. Bennor	272,020	Feb. 13	543	147	23	547
Trap for wash-stands, &c	C. F. Pike	270,111	Jan. 2	325	96	23	66
Traveling apparatus. Overhead	T. W. Capen	275,465	Apr. 10	785	210, 211	23	1369
Traveling-bag	A. S. Hallidie	276,240	Apr. 24	1759	490	23	1552
Traveling-bag	D. S. Hammond	279,942	June 26	1646	461	23	2425
Traveling-bag	J. W. Lieb	284,446	Sept. 4	348	96	24	962
Traveling-bag-handle cap	H. S. Craus	271,803	Feb. 6	262	73	23	486
Trawl-roller	T. R. Ferrall	272,870	Feb. 27	1644	460	23	750
Tray	S. L. Vreeland	276,510	Apr. 24	2104	564	23	1611
Tray. Combined jelly and ice-cream	J. Carl	284,721	Sept. 11	696	195	24	1028
Tray. Table	N. D. Swift	283,362	Aug. 14	1080	303	24	701
Tread and railway power	J. H. Melick and M. J. Colbert	274,510	Mar. 27	1657	461	23	1141
Tread-power	L. D. Carpenter	281,018	July 10	838	233	24	155
Treadle	W. O. Johnson	289,418	Dec. 4	55	16	25	896
Treadle	E. Kilbourn	275,899	Apr. 17	1260	346	23	1456
Treadle	G. A. Lockwood and D. Orrill	279,577	June 19	1210	334	23	2343
Treadle	W. L. Perry	271,112	Jan. 23	1585	456	23	330
Treadle	J. A. Robison	283,514	Aug. 21	1265	354	24	740
Treadle and connection	J. F. Thayer and F. A. Smith, Jr.	274,992	Apr. 3	139	39	23	1249
Treadle attachment for sewing and other machinery	G. B. Ward	270,863	Jan. 16	1273	367	23	264
Treadle for sewing-machines, &c	H. Cramer	271,426	Jan. 30	1984	573	23	399
Treadle-power	A. W. Bush	289,216	Nov. 27	1779	493	25	843
Tree: *See* Boot-tree. Boot or shoe tree. Double-tree. Harness-pad tree. Pad-tree. Saddle-tree. Whiffletree.							
Tree-box	B. Lensing	280,637	July 3	360	100	24	63
Tree-digger	L. G. Bragg	275,575	Apr. 10	994	251	23	1392
Tree-feller and block-dresser	J. F. Bollman	285,874	Oct. 2	116	34	25	23
Tree-protector	J. M. Wadlington	285,186	Sept. 18	1270	357	24	1136
Trees and changing their bearing-years. Producing fruit on barren fruit-	P. Kimball	270,296	Jan. 9	476	140	23	103
Trestle	M. Miller	288,651	Nov. 20	1089	299	25	712
Trestle. Portable	W. F. Marsh	284,873	Sept. 11	877	246	24	1060
Tricycle	W. Asbury	285,946	Oct. 2	216	61	25	41
Tricycle	J. Auld	289,746	Dec. 4	472	133	25	969
Tricycle	J. G. Bailey	285,205	Sept. 18	1288	362	24	1139
Tricycle	R. H. Charsley	284,612	Sept. 11	556	157	24	1004
Tricycle	M. Cooper	286,180	Oct. 9	492	136	25	102
Tricycle	C. F. Handy and W. P. Anthony	274,762	Mar. 27	1953	543	23	1194
Tricycle	C. E. Hiester	271,563	Jan. 30	2183	628	23	432
Tricycle	T. O'Brien	287,566	Oct. 30	2260	613	25	440
Tricycle	A. H. Overman and C. F. Hadley	270,691	Jan. 16	1073	308, 309	23	225
Tricycle	A. H. Overman and C. F. Hadley	289,358	July 31	2568	704	24	468
Tricycle	J. H. Ray	288,114	Nov. 6	401	113	25	577
Tricycle	H. Sachs	290,117	Dec. 11	922	262	25	1057
Tricycle	H. K. Shanck	289,151	Nov. 27	1699	472	25	828
Tricycle	J. K. Starley	274,231	Mar. 20	1270	351	23	1068
Tricycle	A. E. Wallace	284,782	Sept. 11	776	216, 217	24	1041

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tricycle. Railway-car	H. K. Shanck	287,732	Oct. 30	2493	671	25	483
Trimmer: *See* Boot and shoe edge trimmer. Lawn-edge trimmer. Sewing-machine trimmer. Hedge-trimmer. Wick-trimmer. Hoof-trimmer.							
Trimming and burnishing machine	C. H. Swan	276,995	May 1	501	130, 131	23	1713
Trimming and sewing fabrics. Method of and apparatus for	S. Arnold	278,485	May 29	2451	668, 669	23	2077
Trimming-frame	A. Helmus and I. Dreyfuss	286,697	Oct. 16	1159	312	25	226
Trimmings and moldings. Machine for making stitched	C. Knoch	279,257	June 12	798	221, 222	23	2270
Trimmings, &c. Former for dress-	E. H. Godshalk	287,662	Oct. 30	2398	646	25	466
Tripod	G. S. Chase	281,239	July 17	1125	310	24	212
Tripod or standard	J. D. Richardson and F. L. Manchester.	287,168	Oct. 23	1757	482	25	339
Tripod support or stand. Folding	W. J. Bishop	284,269	Sept. 4	138	39	24	928
Trough: *See* Eaves-trough. Fish-egg-hatching trough. Feed-trough. Stock-trough.							
Truck	F. F. Adams	284,586	Sept. 11	525	149	24	999
Truck	H. Barkow	288,687	Nov. 20	1135	312	25	719
Truck	E. Burnett	281,612	July 17	1592	435	24	290
Truck	A. C. Carpenter	281,017	July 10	837	232	24	155
Truck	J. M. Doty	285,588	Sept. 25	1744	494	24	1228
Truck	R. W. Fisk	290,020	Dec. 11	808	227	25	1036
Truck	C. W. Ford	277,699	May 15	1454	392	23	1888
Truck	C. W. Ford	281,481	July 17	1435	392	24	264
Truck	T. Holt, Jr	281,071	July 10	904	252	24	167
Truck	P. H. Walsh	280,975	July 10	790	219	24	145
Truck and bench. Combined	N. H. Long	279,778	June 19	1436	402	23	2383
Truck. Bag-holding	J. J. Dunan	281,472	July 17	1419	389	24	262
Truck. Barrel-	L. M. Bedell	274,258	Mar. 20	1306	360	23	1074
Truck. Barrel-	J. L. Crisp	289,753	Dec. 4	478	135	25	970
Truck. Barrel-	J. Holden	283,888	Aug. 28	1714	483	24	834
Truck. Binder-	J. Preston	270,841	Jan. 16	1254	361	23	260
Truck. Car-	A. A. Brooks	278,495	May 29	2467	673	23	2079
Truck. Car-	I. F. Brown	286,776	Oct. 16	1255	339	25	242
Truck. Car-	L. Finlay	282,510	Aug. 7	40	12	24	507
Truck. Car-	T. J. Furbee	287,374	Oct. 23	2015	548	25	384
Truck. Car-	O. S. Holt	287,936	Nov. 6	184	53	25	539
Truck. Car-	L. K. Jewett	279,951	June 26	1655	464	23	2427
Truck. Car-	J. McLachlan	280,386	July 3	57	15, 16	24	13
Truck. Car-	E. B. Meatyard. (Reissue)	10,289	Feb. 20	1606	449	23	737
Truck. Car-	I. H. Randall	272,154	Feb. 13	709	194	23	574
Truck. Car-	P. Reilly	279,185	June 12	721	197	23	2256
Truck. Car-	H. Resley	279,434	June 12	1037	287	23	2308
Truck. Car-	R. L. Robertson and O. S. Burdett	270,985	Jan. 23	1438	415	23	296
Truck. Car-	J. E. Squire	289,160	Nov. 27	1710	476	25	830
Truck. Car-	I. C. Terry	270,152	Jan. 2	384	111	23	78
Truck. Car-	I. C. Terry	270,153	Jan. 2	384	111	23	78
Truck. Car-	I. C. Terry	278,292	May 22	2186	601, 602	23	2021
Truck. Car-	E. Whiting and J. N. Smith	274,160	Mar. 20	1178	325	23	1052
Truck. Car-	S. S. Williamson	286,565	Oct. 9	981	264	25	188
Truck for conveying material on an elevated track	J. A. Cross	270,755	Jan. 16	1155	331	23	240
Truck for handling brick	J. S. Armstrong	277,187	May 8	853	227	23	1778
Truck for moving harvesters	O. Simpson	283,290	Aug. 14	980	273	24	682
Truck for moving harvesters	A. Turner	276,734	May 1	267	68	23	1670
Truck for moving plows	J. L. Trexler	278,375	May 29	2321	635	23	2054
Truck for moving reapers	R. Chesnut	271,221	Jan. 30	1722	490	23	352
Truck for portable tracks	R. Baumgartner	271,020	Jan. 23	1478	426	23	303
Truck for railway-cars. Safety-	D. M. Kirkpatrick	272,267	Feb. 13	848	236	23	599
Truck for straw-stackers	A. B. Reeves	279,184	June 12	720	196	23	2256
Truck. Hand-	W. P. Brown	283,562	Aug. 21	1321	369	24	751
Truck. Hand-	J. L. Downing	284,619	Sept. 11	563	159	24	1006
Truck. Hand-	C. J. Holman	270,068	Jan. 2	282	83	23	57
Truck. Hand-	W. W. Hughes	275,386	Apr. 10	685	182	23	1351
Truck. Hand-	A. Sloan	275,951	Apr. 17	1401	386	23	1482
Truck. Hand-	J. H. Strugnell	271,152	Jan. 23	1631	470	23	329
Truck. Hand-	N. J. Waterman	282,136	July 31	2287	628	24	420
Truck. Hand-	T. A. Watrous	272,106	Feb. 13	656	178	23	565
Truck. Hand-	E. Wickersham	272,817	Feb. 20	1554	436	23	728
Truck. Harvester-	H. Clayton	288,208	Nov. 13	517	144	25	607
Truck. House-moving	W. P. Aylesworth	290,513	Dec. 18	1446	399	25	1156
Truck. Ladder-	H. D. Olds	280,227	June 26	1979	556	23	2485
Truck. Market-	A. Morrison	284,881	Sept. 11	884	249	24	1062
Truck safety attachment. Car-	J. Raddin	273,307	Mar. 6	82	24, 25	23	848
Truck safety attachment. Car-	J. Raddin	273,308	Mar. 6	83	25	23	848
Truck. Safety car-	S. Brown	280,442	July 3	132	35	24	25
Truck safety-guard. Car-	C. T. Emerson	273,973	Mar. 13	938	258	23	1002
Truck. Stove-	P. A. Gordon	286,292	Oct. 9	654	174	25	129
Truck. Stove-	M. R. Leavenworth	286,715	Oct. 16	1182	318	25	230
Truck. Timber-	W. E. Kellogg	285,818	Oct. 2	44	14	25	10
Truck. Tipping	H. Grafton	274,314	Mar. 20	1375	377	23	1086
Truck. Warehouse-	W. E. Hoyt	286,303	Oct. 9	664	177	25	131
Trumpet. Ear-	S. North. (Reissue)	10,268	Jan. 9	914	263	23	187
Trundle	G. Layng	285,416	Sept. 25	1541	434	24	1190
Trunk	J. A. Ball	281,955	July 24	2038	557	24	374
Trunk	W. F. Bryer	286,383	Oct. 9	760	206	25	148
Trunk	G. Deinel	284,825	Sept. 11	821	229	24	1050
Trunk	H. C. Faber	284,197	Sept. 4	51	14	24	913
Trunk	C. C. Hudson	272,961	Feb. 27	1751	489	23	767

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Trunk	W. Simon	273,175	Feb. 27	2012	566	23	814
Trunk and table. Combined	C. P. Nash	278,036	May 22	1860	508	23	1965
Trunk and wardrobe. Combined	A. Dryfoos	282,865	Aug. 7	469	132	24	583
Trunk-carrier	R. Ball	286,372	Oct. 9	748	200	25	146
Trunk-catch	A. O. Buckins and C. A. Taylor	287,226	Oct. 23	1835	502	25	352
Trunk-catch	G. Crouch	290,977	Dec. 25	2056	566	25	1267
Trunk-catch	J. Wayland	288,284	Nov. 13	614	168	25	623
Trunk-fastener	A. V. Romadka	282,780	Aug. 7	366	104	24	564
Trunk-fastener	G. H. Turner	284,148	Aug. 28	2062	572	24	894
Trunk-fastener	S. J. Wells	283,938	Aug. 28	1778	502	24	846
Trunk-fastening	C. E. Reynolds	284,899	Sept. 11	900	254	24	1065
Trunk-fixture	A. O. Buckins and C. A. Taylor	287,227	Oct. 23	1837	502	25	352
Trunk-lid press. Steam	W. E. Lockman	284,215	Sept. 4	76	22	24	918
Trunk-lock	F. W. Mix	285,916	Oct. 2	176	50, 51	25	34
Trunk or box	F. H. Ransom	270,097	Jan. 16	1063	311	23	227
Trunk-strap	J. W. Putnam	276,466	Apr. 24	2051	570	23	1601
Trunk-top	F. Kukkuck and H. Arnd	275,499	Apr. 10	832	225	23	1377
Trunk-top	F. Kukkuck and H. Arnd	275,500	Apr. 10	833	226	23	1377
Trunk-top support	S. M. Michelson	289,548	Dec. 4	922	62	25	925
Trunk-tops. Manufacture of	F. Kukkuck and H. Arnd	279,258	June 12	800	222	23	2270
Trunk-tray	S. M. Michelson	278,580	May 29	2561	699	23	2096
Trunk-tray	S. M. Michelson	278,994	June 5	462	127	23	2302
Trunk-tray	S. M. Michelson	289,549	Dec. 4	923	62	25	925
Trunk-trays. Elevating and supporting device for	G. S. Willits	290,380	Dec. 18	1254	352	25	1124
Trunks, desks, &c. Supporting device for	A. Montant	272,459	Feb. 20	1099	310	23	647
Truss	I. P. Botsford	288,972	Nov. 27	1484	411	25	790
Truss	J. C. Calhoon	282,268	July 31	2447	673	24	447
Truss	W. B. Kimball	288,945	Nov. 20	1447	399	25	776
Truss	T. G. Owen	273,590	Mar. 6	454	122	23	912
Truss and bandage. Combined	L. C. Bailey	285,545	Sept. 25	1692	477	24	1218
Truss-pad	G. L. Gerard	274,932	Apr. 3	63	17	23	1236
Truss-pad	S. R. Nye	290,095	Dec. 11	892	254	25	1051
Truss-pad	E. Thompson	286,090	Oct. 2	382	105	25	70
Truss. Surgical	J. Edson	273,228	Feb. 27	2061	584	23	826
Tub: *See* Bath and wash tub. Mortar-tub. Butter-tub.							
Tub-handle	W. H. Parrish	285,302	Sept. 18	1398	395	24	1160
Tub-stand and clothes-rack. Combined	J. S. Duncan	270,031	Jan. 2	240	70	23	50
Tube: *See* Dispatch-tube. Speaking-tube. Radiator-tube. Syringe eduction-tube. Sampling-tube. Thermometer-tube. Smoking-tube. Wick-tube.							
Tube-coiling machine	E. W. Whitlock	280,963	July 10	797	222	24	146
Tube-coupling	H. E. Boyd	282,960	Aug. 28	1804	511	24	852
Tube-coupling	E. C. Converse	283,971	Aug. 28	1816	513	24	854
Tube-coupling	E. C. Converse	283,972	Aug. 28	1818	514	24	854
Tube-coupling	E. C. Converse	283,973	Aug. 28	1820	514	24	854
Tube-coupling	E. C. Converse	283,974	Aug. 28	1821	514	24	855
Tube-coupling	P. Patterson	273,591	Mar. 6	455	122	23	912
Tube-coupling	J. L. Pease	272,315	Feb. 13	900	252	23	609
Tube cutter and expander	J. Rose	286,227	Oct. 9	543	149	25	110
Tube-cutting machine	H. O. Lothrop	290,695	Dec. 25	1681	463	25	1303
Tube-expander	C. P. Higgins	275,766	Apr. 10	1177	323	23	1435
Tube-fagot	A. L. Murphy	274,019	Mar. 13	990	272	23	1012
Tube-forming and cord-covering machine	H. S. Bacon	273,217	Feb. 27	2068	581	23	894
Tube-heating furnace	R. H. Brown	273,944	Mar. 13	906	248	23	996
Tube-scraper	C. P. Higgins	272,437	Feb. 20	1073	303	23	643
Tube-stopper	D. J. Morgan	282,006	July 24	2096	574	24	382
Tube-welding machine	T. H. Roberts	284,329	Sept. 4	211	58	24	940
Tubes. Device for making polygonal	A. D. McCarty	271,492	Jan. 30	2077	598	23	415
Tubes from celluloid and other plastic material. Making	W. E. Sargent	270,342	Jan. 9	614	180	23	130
Tubes. Making circular disks for	S. Walker	283,727	Aug. 21	1517	.....	24	788
Tubes. Manufacture of compound	T. J. Holmes	275,896	Apr. 17	1256	345	23	1456
Tubing. Die for drawing angular	E. Dews	282,859	Aug. 7	461	130	24	582
Tubing. Flange-joint for thin-metal	E. C. Converse	283,975	Aug. 28	1822	514	24	855
Tubing. Flexible	M. M. Nichols	284,050	Aug. 28	1933	540	24	872
Tubular boiler. Sectional	G. T. Pillings	276,873	May 1	436	116	23	1703
Tuck-marker	J. S. Sackett	288,120	Nov. 6	407	115	25	579
Tucked fabrics. Machine for finishing	N. E. Bordon	287,615	Oct. 30	2344	632 / 633	25	454
Tug and trace adjuster. Hame	E. J. Blood	276,555	May 1	12	4	23	1629
Tug attachment. Hame	I. W. Numan	271,260	Jan. 30	1768	512	23	359
Tug attachment. Harness	J. W. Hill	275,043	Apr. 3	212	57	23	1262
Tug box-loop. Hame	W. A. Underwood	277,434	May 8	1137	306	23	1898
Tug-clip	F. Krein	270,069	Jan. 2	296	88	23	60
Tug clip. Hame	J. H. Clear	290,399	Dec. 18	1277	359	25	1128
Tug for harness. Thill or shaft	D. G. Powell	277,927	May 22	1795	471	23	1942
Tug. Hame	A. Arter	284,590	Sept. 11	528	150	24	999
Tug. Hame	J. M. Basinger	288,759	Nov. 20	1228	335	25	735
Tug. Hame	T. Broderick	272,641	Feb. 20	1337	375	23	689
Tug. Hame	W. Fawcett	283,475	Aug. 21	1217	342	24	732
Tug. Hame	A. L. Hill	270,759	June 19	1414	395	23	2379
Tug. Hame	J. J. Hipp	290,427	Dec. 18	1330	368	25	1136
Tug. Hame	M. E. Lasher	273,743	Mar. 13	649	173	23	953
Tug. Hame	E. C. Lelie	287,138	Oct. 23	1716	470	25	332
Tug. Hame	C. C. Schwaner	286,230	Oct. 9	546	150	25	110
Tug. Hame	T. A. Simmons. (Reissue)	10,287	Feb. 13	1022	285	23	628
Tug. Hame	E. P. Waters	278,475	May 29	2441	666	23	2075
Tug hook. Harness	J. E. Evans	281,987	July 24	2076	570	24	371
Tug. Shaft	J. B. Burrell	270,931	Jan. 23	1367	394	23	285
Tug. Shaft	G. Purdy	277,782	May 15	1552	422	23	1906

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Tug-slide	A. Wentling	289,479	Dec. 4	128	37	25	909
Tug. Spring draft	O. Brunck	281,236	July 17	1123	309	24	212
Tug. Thill	B. J. Aurand	269,989	Jan. 2	196	57	23	41
Tumbler-cleaner	E. Percival	278,040	May 22	1864	509	23	1966
Tumbler-washer	J. T. Whittle	289,737	Dec. 4	460	130	25	967
Tuning device for stringed instruments	M. Johnson	288,062	Nov. 6	339	95	25	565
Tuning pin for stringed instruments	W. R. Briggs	277,211	May 8	878	233	23	1789
Tunnel. Gaging	A. S. Dinsmore	280,804	July 10	584	163	24	110
Tunnel-working. Metal shield for	T. Dark	286,789	Oct. 16	1269	343	25	245
Tunnels. Apparatus for the construction of	W. R. Kirk	290,989	Dec. 25	2070	570	25	1270
Tunnels. Construction of submarine	D. C. Haskin	286,924	Oct. 16	1430	395	25	274
Tunneling-machine	M. Rothschild	287,728	Oct. 30	2483	669	25	482
Turbine	A. Woodward	280,001	June 26	1713	480	23	2437
Turbine for steam and other motive power	G. De Laval	285,584	Sept. 25	1738	490	24	1227
Turbine wheel	N. F. Burnham	274,884	Mar. 27	2102	584, 585	23	1219
Turbine-wheel gate	E. B. Williams	271,671	Feb. 6	102	28	23	457
Turn-buckles. Manufacture of	E. W. Merrill	292,102	July 31	2227	612	24	411
Turn-buckles. Die for the manufacture of	H. Kimball	285,275	Sept. 18	1368	386	24	1155
Turn-buckles. Die for the manufacture of	H. Kimball	285,276	Sept. 18	1370	386	24	1155
Turn-table. Portable	C. F. Chew	288,408	Nov. 13	789	214	25	653
Turning and boring machine	D. W. Pedrick	288,953	Nov. 20	1457	402, 403	25	778
Turning carriage-seat spindles. Machine for	H. A. Miles	272,073	Feb. 13	608	165	23	557
Turning chair	E. Schmidt	286,641	Oct. 16	1083	292	25	212
Turning round tenons. Machine for	G. W. Foskett	278,118	May 22	1955	535, 536	23	1982
Turning-tool. Hand	J. A. Plummer, Jr., and T. Gainford	270,474	Jan. 9	785	230	23	163
Turning wrist-pins. Device for	F. M. Hazleton	280,471	July 3	174	46	24	32
Turnstile. Registering	G. Wolff and M. Wieser	274,431	Mar. 20	1524	419	23	1112
Turpentine and other wood products and for the manufacture of charcoal. Process of and apparatus for the recovery of	H. M. Pierce	277,505	May 15	1226	330	23	1849
Turpentine. Device for hacking trees in gathering	A. Garner	273,061	Feb. 27	1868	525	23	788
Turpentine. Process of and apparatus for the manufacture of	H. M. Pierce	277,506	May 15	1227	330, 331	23	1850
Turpentine-scraper	J. Mitchell	281,110	July 10	947	265	24	174
Tuyere	N. O. Swenson	285,367	Sept. 18	1476	416	24	1173
Tuyere for blast-furnaces	J. H. Cremer	278,685	June 5	11	3	23	2126
Tuyere for blast-furnaces	G. Hilgenstock	283,107	Aug. 14	758	213	24	642
Tuyere for forges	N. O. Swenson	283,435	Aug. 21	1173	329	24	723
Tuyere. Steam	L. G. Heybrock	270,063	Jan. 2	278	82	23	57
Twine-adjuster	W. J. Greene and J. L. Herlick	284,414	Sept. 4	312	87	24	956
Twine-cutter	W. Miller	286,467	Oct. 9	857	233	25	166
Twine-holder	W. B. Bisbee and G. D. Dudley	282,696	Aug. 7	266	77	24	545
Twine-holder	W. H. Boyden	285,727	Sept. 25	1918	544	24	1259
Twine-holder	R. Melvin	280,060	June 26	1788	502	23	2450
Twine-holder	M. E. Stephenson	274,047	Mar. 13	1019	279	23	1017
Twine holder and lifter	A. B. Tomlin	289,581	Dec. 4	265	74	25	934
Twine or cordage. Machine for making	G. L. Brownell	277,986	May 22	1801	491, 492	23	1955
Twine or cordage. Machine for making	G. L. Brownell	286,258	Oct. 9	586	161	25	117
Twist and fluted drills. Grinding-machine for producing the relief on	H. F. Wheeler	286,663	Oct. 16	1110	299	25	217
Twist-drill	T. Hooker	274,943	Apr. 3	77	21	23	1238
Twist-drills. Die for forming	W. Godley and J. Boldon	285,796	Oct. 2	967	75	25	51
Twist-drills. Machine for cutting helical grooves in	J. Martignoni	270,235	Jan. 9	486	143	23	105
Twist-drills. Machine for making	F. H. Richards	286,150	Oct. 2	451	123	25	84
Twist-drills. Machine for making	J. F. Strange and A. W. Taber	275,791	Apr. 10	1903	330	23	1439
Twist-drills. Manufacture of	E., E. W., and E. C. Strange	273,322	Mar. 6	102	31	23	852
Type	H. H. Thorp	274,993	Apr. 3	140	39	23	1249
Type and space holder	L. K. Johnson	279,168	June 12	704	191	23	2253
Type-case	C. C. Doten	278,782	June 5	146	43	23	2147
Type-case	W. H. Golding	287,430	Oct. 30	2087	567	25	405
Type-case cabinet	W. Piel	285,674	Sept. 25	1843	526	24	1247
Type-case stand. Compositor's	W. P. Harmony	272,243	Feb. 13	818	228	23	594
Type-composing machinery	F. Wicks	276,947	May 1	539	140, 141	23	1718
Type-distributing apparatus	L. K. Johnson and A. A. Low	282,788	Aug. 14	603	170, 171	24	615
Type. Distributing printing	R. H. Davies	283,762	Aug. 28	1569	444	24	809
Type-form furniture, &c	A. B. Auer	278,211	May 22	2060	573	23	2004
Type-grinding machine	A. Neitsch	282,356	July 31	2565	703	24	467
Type holder and separator	L. K. Johnson	277,740	May 15	1499	407	23	1896
Type. Machine for manufacturing	J. C. Blevney	290,628	Dec. 18	1592	437, 438	25	1181
Type making and arranging machinery	F. Wicks	280,699	July 3	439	123, 124	24	77
Type-planer	C. H. Jones	284,638	Sept. 11	584	164	24	1009
Type. Printing	L. B. Benton	290,201	Dec. 18	1026	289	25	1084
Type-rubbing machine	G. S. Eaton	278,785	June 5	149	44	23	2148
Type setting and distributing machine	L. K. Johnson and A. A. Low	275,664	Apr. 10	1043	282, 283	23	1412
Type setting and distributing machine	J. Thorne	283,934	Aug. 28	1769	500, 501	24	845
Type-setting apparatus	L. K. Johnson and A. A. Low	271,711	Feb. 6	148	41	23	466
Type-writer	B. A. Brooks	273,454	Mar. 6	275	74, 75	23	890
Type-writer	E. E. Horton	285,265	Sept. 18	1357	383	24	1153
Type-writer	E. E. Horton	286,824	Oct. 16	1314	358	25	253
Type-writer	G. W. N. Yost	285,096	Sept. 18	1158	323	24	1116
Type-writer aligner	C. J. Baker	282,253	July 31	2428	668	24	444
Type-writer. Electrical	J. A. Parks and G. V. Sheffield	280,077	June 26	1809	509	23	2454
Type-writer or caligraph indicator	J. W. Rich	284,901	Sept. 11	903	255	24	1066
Type writing and printing machine	M. H. Dement	282,174	July 31	2333	644	24	427

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Type writing and printing machine	M. H. Dement	282,175	July 31	2336	644	24	427
Type-writing machine	B. A. Brooks	272,023	Feb. 13	547	148	23	547
Type-writing machine	B. A. Brooks	274,262	Mar. 20	1309	361	23	1075
Type-writing machine	J. B. Hammond	290,419	Dec. 18	1309	364, 365, 366	25	1132
Type-writing machine	J. B. Hammond	290,420	Dec. 18	1321	367	25	1135
Type-writing machine	A. G. Leming	285,141	Sept. 18	1216	342, 343	24	1126
Type-writing machine	H. Orpen	279,790	June 19	1448	406	23	2365
Type-writing machine	H. Orpen	284,570	Sept. 4	502	140, 141	24	989
Type-writing machine	W. R. Perce	285,840	Oct. 2	69	21	25	15
Type-writing machine	A. H. P. S. Wortley	286,161	Oct. 2	465	127	25	86
Type-writing machine	J. L. Young	289,489	Dec. 4	147	40, 41	25	912
Type-writing machines. Platen-shifting attachment for	A. W. Pritchard	284,231	Sept. 4	96	26	24	921
Type-writing ruler	H. B. Mead	283,504	Aug. 21	1257	352	24	739
Umbrella	H. Bollack and G. Mayer	281,827	July 24	1883	514	24	347
Umbrella	J. N. Colby	289,229	Nov. 27	1793	496	25	846
Umbrella	J. Feldman	270,041	Jan. 2	252	73	23	52
Umbrella	W. S. Hoke	276,407	Apr. 24	1977	547	23	1568
Umbrella	G. H. Moll	284,043	Aug. 28	1924	538	24	871
Umbrella	L. Morse	270,827	Jan. 16	1236	357	23	257
Umbrella	J. Stewart	285,702	Sept. 25	1879	535	24	1253
Umbrella and cane. Combined	J. N. Colby	289,230	Nov. 27	1794	497	25	846
Umbrella and cane. Combined	H. A. Whiting and W. J. Winghart	288,144	Nov. 6	432	121	25	583
Umbrella and parasol	W. L. Fussell	288,566	Nov. 13	975	968	25	686
Umbrella and parasol	R. Geisler	289,846	Jan. 2	33	10, 11	23	9
Umbrella and parasol handle	J. T. Smith	289,722	Dec. 4	442	124	25	964
Umbrella and parasol rack	C. M. Boynton and T. M. Togus	288,616	Nov. 20	1040	286	25	704
Umbrella-case fastener	W. P. Richards	287,474	Oct. 30	2144	583	25	417
Umbrella catch and runner	J. B. Powell	288,486	Nov. 13	868	241	25	670
Umbrella drip-cup	E. Susman	288,889	Nov. 20	1381	381	25	764
Umbrella-fixture	R. Dugan	276,788	May 1	336	89	23	1684
Umbrella. Folding	C. P. Whitney	274,687	Mar. 27	1866	520	23	1179
Umbrella-frames. Machine for inserting pins or rivets in	D. M. Redmond	282,668	Aug. 7	230	67	24	539
Umbrella-handle catch	W. S. Hoke	276,536	Apr. 24	2138	594	23	1616
Umbrella-holder	T. A. Gause	278,124	May 22	1970	540	23	1984
Umbrella-holder	F. S. Hesseltine	287,676	Oct. 30	2414	651	25	469
Umbrella or parasol	L. Engel	285,021	Sept. 18	1071	299	24	1102
Umbrella or parasol	W. D. Isaacs	289,861	Jan. 2	49	15	23	13
Umbrella or parasol	R. P. Knapp	280,485	July 3	189	50	24	35
Umbrella or parasol	J. B. Seel	284,495	Sept. 4	410	117	24	973
Umbrella-runner	J. B. Powell	288,485	Nov. 13	887	241	25	670
Umbrella-runner	J. B. Wilson	273,330	Mar. 6	117	34	23	854
Umbrella-runner	J. B. Wilson	273,331	Mar. 6	118	34	23	854
Umbrella-stick	J. Wright and J. M. Bechter	288,606	Nov. 13	1029	282	25	696
Umbrella-stick and cane	J. T. Smith	282,231	July 31	2404	661	24	440
Umbrella-support	W. R. Kizer	278,973	June 5	438	119	23	2198
Umbrella-tie	D. W. Odiorne	276,457	Apr. 24	2038	566	23	1589
Umbrellas and parasols. Retention device for	V. D. Stockbridge	286,501	Oct. 9	899	242	25	173
Uncoupler. Automatic	W. R. Funk	286,920	Oct. 16	1436	394	25	273
Under-garment	M. Loewenthal	278,805	June 5	173	51	23	2152
Underground conductor	R. M. Hunter	275,387	Apr. 10	688	182	23	1352
Underground conduit	J. S. Du Bois	287,509	Oct. 30	2186	594	25	424
Underground conduit	J. Lynch	275,233	Apr. 3	450	125	23	1303
Underground line	D. N. Hurlbut	276,415	Apr. 24	1987	550	23	1590
Underground line	F. X. Taaffe and C. H. Koyl	278,627	May 29	2625	717	23	2107
Underground wires, &c. Carrier for	T. A. B. Putnam	282,010	July 24	2100	576	24	384
Undershirt	A. Conger. (Reissue)	10,378	Sept. 4	523	147	24	992
Undershoe	H. E. Pond	272,470	Feb. 20	1112	314	23	649
Underwaist	M. E. Higgins	288,802	Nov. 20	1275	349	25	744
Underwaist	M. E. Higgins	288,803	Nov. 20	1276	350	25	744
Underwaist. Child's	M. E. Higgins	277,736	May 15	1484	402	23	1883
Uniting sheets of fibrous and other materials	W. S. Seymour	289,455	Dec. 4	96	28	25	903
Universal joint	G. Carlisle	285,966	Oct. 2	236	66	25	45
Universal joint	R. Edmonds	281,850	July 24	1913	522	24	352
Universal joint	P. Lord	276,186	Apr. 24	1691	467	23	1540
Universal joint	W. K. Miller	279,415	June 12	1013	281	23	2304
Universal joint	E. W. Vogel	277,176	May 8	843	223	23	1776
Universal-joint coupling	C. Shuman	272,339	Feb. 13	932	259	23	613
Upholstering cushioned seats. Apparatus for	G. Coil	280,911	July 10	705	198	24	131
Upholstery purposes. Fiber for	J. G. Stephens	283,161	Aug. 14	817	228	24	651
Upholstery purposes. Method of and apparatus for curling fibers for	J. G. Stephens	283,162	Aug. 14	818	228	24	651
Upper-protectors. Fastener for	J. H. Moulton	289,875	Jan. 2	61	19	23	15
Urethral-stricture instrument	P. B. Tucker	282,590	Aug. 7	140	42	24	525
Urinal	J. McGinley	276,261	Apr. 24	1783	496	23	1556
Urinal. Flexible	C. S. Murphey	285,056	Sept. 18	1112	310	24	1109
Urn. Coffee-	C. Halstead	270,788	Jan. 16	1192	344	23	248
Urn. Coffee-	C. Halstead	273,067	Feb. 27	1674	526	23	789
Uterine displacement and hernia. Apparatus for the treatment of	H. H. De Pew	275,368	Apr. 10	657	175, 176	23	1347
Uterine supporter	H. G. Farr	286,798	Oct. 16	1282	346	25	247
Vaccine. Preserving	H. Protzo	273,390	Mar. 6	198	.....	23	868
Vacuum apparatus	E. Weston	283,544	Aug. 21	1295	362	24	746
Vacuums. Apparatus for producing	E. Weston	283,549	Aug. 21	1301	364	24	747
Vacuum-pan	W. A. Hoeveler	277,280	May 8	955	257	23	1797
Vacuum-pan	J. Kelly	278,150	May 22	1999	550	23	1990
Vacuum-pans. Device for cleaning	G. Dinkel	277,012	May 8	626	164	23	1739
Vagina and uterus. Instrument for treating the	C. C. Parker	275,405	Apr. 10	712	190	23	1357
Valise. Folding	W. S. Marshall	277,497	May 15	1219	328	23	1048

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Valise. Hand and saddle	W. G. Strubbe	271,540	Jan. 30	2132	614	23	424
Valve:							
See Flush-valve. Vapor-burner valve. Flushing-valve. Water-closet valve. Pump-valve.							
Valve	A. G. Alexander	284,587	Sept. 11	526	149	24	999
Valve	C. F. Barrett	285,871	Oct. 2	112	33	25	22
Valve	J. H. Blessing	272,634	Feb. 20	1327	372	23	687
Valve	H. R. Frisbie	275,184	Apr. 3	391	107	23	1294
Valve	T. and J. Galvin	283,479	Aug. 21	1222	344	24	732
Valve	C. S. Haskell and W. B. Fleming	288,331	Nov. 13	680	187	25	633
Valve	C. B. Hitchcock	284,635	Sept. 11	581	163	24	1008
Valve	S. W. Hoag, Sr	272,879	Feb. 27	1662	464	23	753
Valve	T. Holland	282,894	Aug. 7	503	141	24	589
Valve	C. Jenkins	271,073	Jan. 23	1542	444	23	314
Valve	J. Johnson and L. Wagner	283,788	Aug. 28	1603	453	24	815
Valve	L. J. Kolar	277,492	May 15	1215	326	23	1848
Valve	R. Lauckner	288,350	Nov. 13	704	193	25	638
Valve	S. Lloyd and D. E. Pierce	275,395	Apr. 10	701	187	23	1354
Valve	S. Lloyd and D. E. Pierce	275,396	Apr. 10	702	187	23	1355
Valve	H. Oldendorph	274,364	Mar. 20	1443	396	23	1098
Valve	W. A. Pendry	282,766	Aug. 7	354	100	24	562
Valve	J. E. Sinclair	279,451	June 12	1054	291	23	2310
Valve	H. Sullings	279,459	June 12	1062	294	23	2312
Valve	P. White	270,355	Jan. 9	629	185	23	133
Valve	M. M. Zellers	272,827	Feb. 20	1565	440	23	730
Valve. Air	J. S., T. A., and E. R. Walker	289,192	Nov. 27	1750	487	25	837
Valve and apparatus connected therewith. Automatic check	M. Merichenski	273,575	Mar. 6	436	117	23	909
Valve and expansion-gear. Steam-actuated	E. Sonntag	270,854	Jan. 16	1285	364, 365	23	262
Valve and spigot wrench for barrels	G. F. Hildenbrand	290,183	Dec. 11	994	281	25	1070
Valve attachment for gravity-lubricators	R. Baird	274,894	Apr. 3	5	1	23	1227
Valve. Back-pressure	C. F. Copeland	270,890	Jan. 23	1314	379	23	276
Valve-balance	J. B. Miller	281,907	July 24	1984	543	24	364
Valve. Balance puppet	C. O. Small	275,722	Apr. 10	1113	304	23	1424
Valve. Balance slide	S. S. Williamson	272,393	Feb. 13	1014	283	23	627
Valve. Balanced	W. S. Canaday	280,346	July 3	10	3	24	4
Valve. Balanced	E. Stewart	278,058	May 22	1883	515	23	1970
Valve. Balanced	C. F. Taylor	283,532	Aug. 21	1281	358	24	743
Valve. Balanced rotary	B. T. Babbitt	269,992	Jan. 2	200	58	23	42
Valve. Balanced rotary	A. E. Wilson	278,648	May 29	2652	725	23	2111
Valve. Balanced slide	J. B. Allfree	280,993	July 10	807	224	24	149
Valve. Balanced slide	J. E. Baker	286,573	Oct. 16	996	269	25	197
Valve. Balanced slide	T. Calver and S. H. Stout	281,015	July 10	834	232	24	155
Valve. Balanced slide	N. W. Condict, Jr	275,356	Apr. 10	639	171	23	1344
Valve. Balanced slide	E. T. Conrad	273,961	Mar. 13	922	253	23	999
Valve. Balanced slide	J. J. De Lancey	284,395	Sept. 4	291	81	24	953
Valve. Balanced slide	W. M. Deal	283,216	Aug. 14	888	247	24	665
Valve. Balanced slide	S. E. Jarvis	278,020	May 22	1843	503	23	1962
Valve. Balanced slide	W. Jones	270,809	Jan. 16	1216	351	23	253
Valve. Balanced slide	J. C. Knecht	282,906	Aug. 7	514	144	24	591
Valve. Balanced slide	J. P. McCook	289,678	Dec. 4	380	109	25	954
Valve. Balanced slide	J. Murphy	277,328	May 8	1017	273	23	1807
Valve. Balanced slide	H. Otto and P. F. Bell	290,650	Dec. 18	1616	445	25	1186
Valve. Balanced slide	W. T. Reaser	273,891	Mar. 13	841	228	23	986
Valve. Balanced slide	W. T. Reaser	273,892	Mar. 13	842	229	23	986
Valve. Balanced slide	F. Rochow	270,986	Jan. 23	1439	415	23	296
Valve. Balanced slide	G. Selden	276,721	May 1	246	62	23	1667
Valve. Balanced slide	G. Shone	277,795	May 15	1566	427	23	1909
Valve bodies. Machine for finishing globe	F. H. Richards	281,138	July 10	984	275, 276	24	180
Valve. Check	G. F. Blake	270,573	Jan. 16	921	265	23	197
Valve. Check	J. H. Blessing	281,439	July 17	1370	378	24	254
Valve. Check	J. H. Blessing	290,314	Dec. 18	1171	328	25	1109
Valve. Check	H. A. Hall	283,777	Aug. 28	1587	448	24	813
Valve. Check	J. P. Pfau	274,222	Mar. 20	1259	347	23	1066
Valve. Check	A. Riegler	277,509	May 15	1230	331	23	1850
Valve. Combined check and stop	L. B. Snow	284,770	Sept. 11	758	211	24	1039
Valve-cover. Removable	E. E. Carter	277,227	May 8	893	238	23	1785
Valve. Drop check	M. D. Temple	290,281	Dec. 18	1128	317	25	1101
Valve for compound engines. Slide	E. G. Davis	274,571	Mar. 27	1729	480	23	1154
Valve for compound engines. Slide	E. G. Davis	279,544	June 19	1170	324	23	2336
Valve for engine-cylinders. Relief	J. Wheelock	269,978	Jan. 2	181	53	23	38
Valve for gas, water, &c. Safety	G. W. Richardson	291,013	Dec. 25	2100	579	25	1275
Valve for locomotive-engines. Relief	R. C. Blackall	283,749	Aug. 28	1555	438	24	807
Valve for steam fire-engines. Relief	R. H. Atwell	277,189	May 8	856	228	23	1778
Valve. Gate	W. G. Abel	287,788	Nov. 6	1	1	25	507
Valve. Gate	P. G. Neisendorfer	286,475	Oct. 9	865	235	25	168
Valve-gear	M. N. Cummiskey	270,395	Jan. 9	688	204	23	144
Valve-gear	H. E. Depp	278,689	June 5	18	5	23	2128
Valve-gear	R. H. Fletcher	286,803	Oct. 16	1287	348	25	248
Valve-gear	H. K. Kriebel	290,645	Dec. 18	1611	443	25	1184
Valve-gear	R. M. Hunter	272,053	Feb. 13	585	158	23	553
Valve-gear	F. V. Matton	285,286	Sept. 18	1379	390	24	1157
Valve-gear	A. Morton	281,548	July 17	1506	414, 415	24	277
Valve-gear	F. Ogden	281,122	July 10	962	270	24	177
Valve-gear	J. D. Olds	281,123	July 10	964	270, 271	24	177
Valve-gear	L. Skinner	287,877	Nov. 6	107	32, 33	25	526
Valve-gear	J. E. Sweet	275,871	Apr. 17	1314	362	23	1466
Valve-gear for steam-engines. Electric	G. W. Storer	281,579	July 17	1544	423, 424	24	283

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page.
Valve-gear for steam pumping-engines	A. J. Blakeslee	270,576	Jan. 16	924	267	23	199
Valve-gear. Reversing and expansion	C. W. Finger	288,787	Nov. 20	1261	345	25	741
Valve-gear. Steam-engine	J. Braunwalder	286,585	Oct. 16	1011	273	25	200
Valve-gear. Steam-engine	D. Clark and T. G. Blatch	276,773	May 1	316	82	23	1681
Valve-gear. Steam-engine	J. Frazier	271,577	Jan. 30	2174	626	23	431
Valve-gear. Steam-engine	A. C. Gallahue	275,376	Apr. 10	668	178	23	1348
Valve-gear. Steam-engine	N. G. Herreshoff	280,311	June 26	2085	587	23	2504
Valve-gear. Steam-engine	G. L. and E. Hoxsie	273,846	Mar. 13	784	213	23	977
Valve-gear. Steam-engine	A. Morton	274,810	Mar. 27	2006	558, 559	23	1303
Valve-gear. Steam-engine	E. O'Neill	278,451	May 29	2413	658	23	2070
Valve-gear. Steam-engine	R. W. Peck	286,992	Oct. 2	347	97	25	64
Valve-gear. Steam-engine	G. T. Pillings	273,597	Mar. 6	461	124	23	913
Valve-gear. Steam-engine	C. Schinke	280,672	July 3	402	112	24	71
Valve-gear. Steam-engine	A. J. Stevens	288,133	Nov. 6	422	119	25	581
Valve-gear. Steam-engine	F. M. Stevens	285,064	Sept. 18	1141	319	24	1113
Valve-gear. Steam-engine	W. B. Turman	283,538	Aug. 21	1287	360	24	744
Valve. Globe or similar	J. L. Phillips	281,394	July 17	1316	364	24	245
Valve. Globe or stop	F. H. Hambleton	277,713	May 15	1472	398	23	1891
Valve-grinder	J. D. Waldran	286,095	Oct. 2	391	107	25	72
Valve-grinding attachment	A. W. Case	285,568	Sept. 25	1716	485	24	1223
Valve handle. Steam-	F. I. Maule	271,887	Feb. 6	362	100	23	504
Valve. Hydraulic	E. Thayer	274,155	Mar. 20	1170	323	23	1050
Valve mechanism	C. Belknap and J. W. Bradley	286,676	Oct. 16	1128	303, 304	25	220
Valve mechanism	J. W. Bradley	280,011	June 26	1727	484	23	2440
Valve. Oscillating	M. R. Moore	271,729	Feb. 6	170	46	23	470
Valve. Oscillating-engine	A. W. Harrison	271,449	Jan. 30	2018	582	23	404
Valve. Oscillating steam-	J. M. Buckley	284,719	Sept. 11	694	195	24	1022
Valve. Piston-	C. H. Hyssong	284,964	Sept. 11	985	277	24	1060
Valve. Piston	F. Stitzel	279,887	June 19	1566	439	23	2406
Valve. Plug stop-	L. D. Craig	274,724	Mar. 27	1904	532	23	1186
Valve. Pop safety-	C. and A. H. Jarecki	281,369	July 17	1287	357	24	240
Valve. Pressure-regulating	H. F. Hodges	290,429	Dec. 18	1331	369	25	1136
Valve. Reducing-	R. Newton	282,557	Aug. 7	103	31	24	518
Valve. Regulating-	P. O'Reilly	274,512	Mar. 27	1659	461	23	1141
Valve. Reversing-	C. S. Crane	279,921	June 26	1614	453, 454	23	2420
Valve. Reversing and cut-off	F. Chase	279,912	June 26	1603	450	23	2419
Valve. Rotary	W. F. Goodwin	278,790	June 5	154	45, 46	23	2149
Valve. Safety-	A. H. Jarecki	287,131	Oct. 23	1709	468	25	330
Valve. Safety-	A. D. Kilborn	274,787	Mar. 27	1984	552	23	1199
Valve. Safety-	A. C. Meady	274,133	Mar. 20	1144	315	23	1045
Valve. Safety-	E. Medden	290,450	Dec. 18	1360	375	25	1141
Valve. Safety-	A. Orme	286,148	Oct. 2	449	122	25	83
Valve. Safety-	G. W. Richardson	283,146	Aug. 14	799	223	24	648
Valve. Safety-	G. W. Richardson	287,167	Oct. 23	1755	481, 482	25	338
Valve. Safety-	H. C. Wilder	272,926	Feb. 27	1713	479	23	761
Valve-seat for steam-engines	I. H. Congdon	282,058	July 31	2168	595	24	401
Valve-seats of globe-valves. Device for dressing	P. J. Wright and S. Rust	278,478	May 29	2445	667	23	2076
Valve. Slide-	B. Carley	282,162	July 31	2313	635	24	494
Valve. Slide-	R. Doty	285,737	Sept. 25	1935	548	24	1281
Valve. Steam-	T. P. Barry	285,955	Oct. 2	226	63	25	43
Valve. Steam-	A. B. Jenkins	273,284	Mar. 6	45	14	23	842
Valve. Steam-actuated	L. S. Allison, H. John, and T. E. Evans.	274,247	Mar. 20	1292	356	23	1072
Valve. Steam-actuated	R. B. Angus	275,746	Apr. 10	1142	313	23	1429
Valve. Steam-actuated	G. Clarke	281,836	July 24	1893	516	24	349
Valve. Steam-actuated	G. E. Elliott	283,296	Aug. 14	897	250	24	667
Valve. Steam-actuated	W. Haehulen	279,378	June 12	970	269	23	2296
Valve. Steam-actuated	H. Kessler	290,063	Dec. 11	856	243	25	1044
Valve. Steam-actuated	S. F. Locke	288,460	Nov. 13	853	231	25	664
Valve. Steam-actuated	W. J. McLean	285,827	Oct. 2	56	17	25	12
Valve. Steam-actuated	W. K. Miller	287,845	Nov. 6	65	19, 20	25	519
Valve. Steam-actuated	J. P. Northey	274,647	Mar. 27	1820	505	23	1171
Valve. Steam-actuated	T. Northey	287,706	Oct. 30	2457	661, 662	25	477
Valve. Steam-actuated	G. W. Price	290,354	Dec. 18	1219	343	25	1117
Valve. Steam-actuated	J. W. Russell	283,359	Aug. 14	1075	302	24	700
Valve. Steam-actuated	L. Wienman	273,655	Mar. 6	530	142	23	925
Valve. Steam-balanced	J. Dutot and H. B. Anderson	275,610	Apr. 10	971	264	23	1400
Valve. Steam-cylinder relief-	W. B. Coulter	289,071	Nov. 27	1607	445	25	811
Valve. Steam-engine	G. H. Burley	281,665	July 24	1664	454	24	308
Valve. Steam-engine	R. Doty	283,978	Aug. 28	1826	515	24	855
Valve. Steam-engine	F. Foedick	279,484	June 12	1094	302	23	2316
Valve. Steam-engine	N. G. Herreshoff	280,312	June 26	2086	587	23	2504
Valve. Steam-engine reversing-	C. H. Upton	283,046	Aug. 14	684	192	24	699
Valve. Steam-engine slide-	L. Skinner	287,878	Nov. 6	109	33	25	526
Valve. Steam-engine slide-	J. M. Smith	275,725	Apr. 10	1116	305	23	1425
Valve. Steam-trap	R. Newton	284,469	Sept. 4	375	104	24	967
Valve. Stop-	R. Beaumont	275,798	Apr. 17	1226	335	23	1451
Valve. Stop-	F. H. Hambleton	290,044	Dec. 11	837	236, 237	25	1041
Valve. Stop-	M. Hastings	271,067	Jan. 23	1533	442	23	312
Valve. Stop-	T. Hennessy	273,839	Mar. 13	776	210	23	975
Valve. Stop-	S. W. Martin	271,491	Jan. 30	2075	598	23	415
Valve. Stop-	J. Old	286,479	Oct. 9	869	236	25	169
Valve. Stop-	M. D. L. Swank and J. T. Thornley	280,413	July 3	91	24	24	19
Valve, stop-cock, and blow-off valve. Combined check-	J. H. Blessing	272,635	Feb. 20	1329	373	23	688
Valve. Straight-way	J. H. Bacon and W. H. Paige	281,228	July 17	1109	306	24	209
Valve. Straight-way	D. R. Burns	270,009	Jan. 2	217	63	23	45
Valve. Straight-way	S. B. Dover	284,122	Aug. 28	2027	564	24	889

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Valve. Straight-way	M. J. Gibbons	273,271	Mar. 6	32	10	23	840
Valve. Straight-way	B. J. Kelly	281,081	July 10	913	255	24	168
Valve. Straight-way	J. Richter	273,607	Mar. 6	472	127	23	915
Valve. Straight-way	P. G. Van Wie	279,617	June 19	1251	347	23	2351
Valve. Straight-way	P. G. Van Wie	286,656	Oct. 16	1102	297	25	216
Valve. Straight-way check	J. H. Blessing	281,438	July 17	1369	378	24	254
Valve. Three-way	B. Fitts	272,421	Feb. 20	1057	297	23	639
Valve. Tube	W. Kennish	274,447	Mar. 20	1555	426	23	1117
Valve. Vacuum	W. C. Mackinney	284,452	Sept. 4	355	98	24	964
Valve. Water-protected	J. E. Leadley	289,277	Nov. 27	1844	509	25	855
Valve weights. Automatically releasing safety	W. T. King	288,710	Nov. 20	1161	319	25	724
Valves. Device for proving globe	F. Lunkenheimer	277,756	May 15	1525	413	23	1901
Valves. Handle for steam and other	H. M. Hall	290,575	Dec. 18	1527	421	25	1171
Valves. Locking	P. Connolly	280,912	July 10	706	199	24	131
Valves. Mechanism for operating discharge	A. G. Alexander	275,344	Apr. 10	691	167	23	1341
Valvular apparatus	F. S. Guerber	273,680	Mar. 6	567	150	23	931
Vapor-bath	J. M. Chadwick	280,348	July 3	12	4	24	4
Vapor bath. Medicated	L. Schulze	280,675	July 3	404	113	24	72
Vapor-burner	H. S. Belden	271,772	Feb. 6	223	62	23	479
Vapor-burner	H. S. Belden	272,195	Feb. 13	755	208	23	582
Vapor-burner	C. V. Bost	283,956	Aug. 28	1800	510	24	851
Vapor-burner	E. P. Corby	282,612	Aug. 7	165	50	24	529
Vapor-burner	E. P. Corby	286,266	Oct. 9	596	163	25	119
Vapor-burner	E. P. Corby	286,267	Oct. 9	596	163	25	119
Vapor-burner	Z. Davis	269,833	Jan. 2	18	6	23	6
Vapor-burner	Z. Davis	269,834	Jan. 2	19	6	23	6
Vapor-burner	Z. Davis	287,911	Nov. 6	151	44	25	534
Vapor-burner	J. E. Donovan	283,977	Aug. 28	1824	515	24	855
Vapor-burner	B. Fisher	282,820	Aug. 7	412	116	24	573
Vapor-burner	W. Heeton	270,587	Jan. 16	936	271	23	201
Vapor-burner	A. Kindermann	288,343	Nov. 13	693	191	25	636
Vapor-burner	C. A. Koehler	270,191	Jan. 2	427	123	23	67
Vapor-burner	O. B. Peck	286,328	Oct. 9	699	186	25	137
Vapor-burner	W. Scherer, W. Moll, and J. A. Marsh.	270,253	Jan. 9	506	149	23	109
Vapor-burner	A. Stevens	284,085	Aug. 28	1977	551	24	880
Vapor-burner	C. and J. Whittingham	270,268	Jan. 9	521	153	23	112
Vapor-burner	W. H. Woodard	281,423	July 17	1354	373	24	251
Vapor-burner	T. T. Woodward	270,194	Jan. 2	431	125	23	88
Vapor-burner	T. T. Woodward	272,998	Feb. 27	1793	502	23	775
Vapor-burner	T. T. Woodward	272,999	Feb. 27	1794	502	23	775
Vapor-burner valve	D. E. Bangs	277,661	May 15	1413	382	23	1880
Vapor-burning heating and cooking apparatus	J. S. Hull	283,246	Aug. 14	927	258	24	672
Vapor-burning heating and cooking apparatus	J. S. Hull	283,247	Aug. 14	929	259	24	672
Vapor. Device for automatically regulating quality of illuminating.	E. J. Frost	282,069	July 31	2184	600	24	404
Vapor-engines. Regulating the supply of oil to	G. B. Brayton	270,927	Jan. 23	1361	392	23	284
Vapor for engines. Generating motor	J. T. Wainwright	274,423	Mar. 20	1515	416	23	1111
Vapor from liquid hydrocarbons. Apparatus for generating	H. F. Hayden	278,792	June 5	158	46	23	2149
Vapor from liquid hydrocarbons. Apparatus for generating	H. F. Hayden	278,793	June 5	159	47	23	2149
Vapor from liquid hydrocarbons. Apparatus for generating	H. F. Hayden	279,154	June 12	692	189	23	2251
Vapor generator and dianton burner. Hydrocarbon-	I. R. Blumenburg and H. W. Whiting.	278,860	June 5	257	74, 75	23	2167
Vapor generator and motor	I. R. Blumenberg	290,962	Dec. 25	2024	559	25	1263
Vapor generator and motor	I. R. Blumenberg	290,963	Dec. 25	2029	559, 560	25	1264
Vapor generator and motor	I. R. Blumenberg	290,964	Dec. 25	2034	560	25	1264
Vapor or gas. Apparatus for generating and utilizing	H. F. Hayden	274,595	Mar. 27	1759	488	23	1151
Vapor or gas generator. Hydrocarbon	H. F. Hayden	274,596	Mar. 27	1761	488	23	1159
Vapor. Process of and apparatus for manufacturing heating.	J. P. Gill	275,634	Apr. 10	1005	272	23	1405
Vapors. Process of and apparatus for manufacturing lighting or heating	J. P. Gill	275,635	Apr. 10	1008	272	23	1406
Vaporizer	S. Marcus	275,238	Apr. 3	456	127	23	1304
Varnish	C. M. Ely	289,766	Dec. 4	489	.....	25	971
Varnish, &c. Apparatus for making	W. M. Bailey	277,534	May 15	1363	339	23	1855
Varnish. Apparatus for manufacturing	B. Borowsky	286,528	Oct. 9	932	251	25	180
Varnish. Furniture	G. Wright	283,450	Aug. 21	1190	.....	24	727
Varnishing machines. Automatic hanging-up attachment for label.	M. Schmidt and C. Rahsskopff	278,607	May 29	2594	708	23	2102
Vase. Self-watering flower	E. B. Chappell	283,966	Aug. 28	1811	512	24	853
Vat: *See* Cheese-vat. Tan-vat.							
Vault. Burial	J. G. Meyers	285,914	Oct. 2	172	49, 50	25	33
Vault-cover	E. Omensetter	275,785	Apr. 10	1196	328	23	1439
Vault cover and ventilator	A. W. Herr	284,203	Sept. 4	60	17	24	915
Vault cover and ventilator. Combined	T. W. Langill	289,663	Dec. 4	360	102	25	959
Vault-cover fastening	C. H. Ross	283,517	Aug. 21	1268	355	24	741
Vault-cover or grating-tile and surfaces made of the same. Illuminating	T. Hyatt	272,383	Feb. 13	998	278, 279, 280	23	694
Vault-cover or grating-tile and surfaces made of the same. Illuminating	T. Hyatt	272,551	Feb. 20	1213	339, 340	23	667
Vault-cover or grating-tile and surfaces made of the same. Illuminating	T. Hyatt	286,542	Oct. 9	951	256	25	183
Vault-cover or grating-tile, &c. Illuminating	T. Hyatt	286,012	Oct. 2	285	80	25	54
Vault-cover or illuminating grating-tile and surface made thereof.	T. Hyatt	288,571	Nov. 13	981	270	25	687
Vault-covering or illuminating-grating and surface made therefrom.	T. Hyatt	288,572	Nov. 13	982	270, 271	25	687
Vault. Grave	J. Coover	285,233	Sept. 18	1391	372	24	1145

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'gs.	Official Gazette. Vol.	Official Gazette. Page.
Vault. Grave	F. Miller	278,354	May 29	2296	698	23	2049
Vault-light lens	M. J. Daly	274,086	Mar. 13	1077	297	23	1026
Vault. Receiving and burial	R. B. Lanum	284,027	Aug. 28	1908	534	24	869
Vegetable and fruit drying apparatus	F. Cook	281,838	July 24	1895	517	24	349
Vegetable-cutter	J. M. Butler	275,136	Apr. 3	339	93	23	1284
Vegetable-cutter	E. L. Byron	283,466	Aug. 21	1908	339	24	730
Vegetable-cutter	E. Fishel	285,985	Oct. 2	254	72	25	49
Vegetable-cutter	J. C. Green	272,041	Feb. 13	568	154	23	550
Vegetable-cutter	C. L. Heisler	287,127	Oct. 23	1704	467	25	329
Vegetable-cutter	C. Schrebler	278,827	June 5	905	60, 61	23	2158
Vegetable-cutter	J. A. Smith	290,363	Dec. 18	1231	346, 347	25	1130
Vegetable-cutter. Rotary	H. L. Goodwin	271,701	Feb. 6	137	38	23	464
Vegetable grinder and slicer	E. Schmitz	290,120	Dec. 11	996	263	25	1058
Vegetable matter. Treating	R. R. Roberts	279,435	June 12	1038	287, 288	23	2308
Vegetable-slicer	A. B. Batson	279,212	June 12	747	205	23	2261
Vegetable-slicer	F. Espel	280,161	June 26	1899	534	23	2471
Vegetable-slicer	S. E. Massari	279,782	June 19	1440	403	23	2384
Vegetable-slicer	L. Sherman	284,078	Aug. 28	1969	548	24	879
Vegetable slicer and grater	J. Brinkhoff	290,390	Dec. 18	1267	356	25	1136
Vehicle	C. M. Blydenburgh	289,883	Dec. 11	641	178, 179	25	1005
Vehicle	G. J. Dickson	280,361	July 3	26	7, 8	24	7
Vehicle	C. B. James	270,076	Jan. 2	290	86	23	59
Vehicle	L. G. Mayer	271,092	Jan. 23	1563	451	23	317
Vehicle	F. M. and W. F. Pennebaker	280,854	July 10	640	181	24	119
Vehicle	C. W. Saladee	272,331	Feb. 13	922	257	23	612
Vehicle	J. F. Smith	280,870	July 10	660	186	24	123
Vehicle	J. M. Terras	287,896	Nov. 6	118	35	25	528
Vehicle	G. White	285,863	Oct. 2	105	31	25	21
Vehicle-body	F. K. and S. K. Herr	274,769	Mar. 27	1963	545	23	1196
Vehicle-body	J. C. F. Pagel	284,754	Sept. 11	735	205	24	1035
Vehicle bolster-plate	H. James	281,076	July 10	909	254	24	168
Vehicle bolster-plate	H. L. Treman	270,265	Jan. 9	518	152	23	111
Vehicle bolster-spring	C. A. Howard	282,987	Aug. 14	603	170	24	615
Vehicle-brake	E. G. Beebe	278,765	June 5	108	31	23	2142
Vehicle-brake	H. M. Crippen	290,543	Dec. 18	1483	410	25	1163
Vehicle-brake	J. T. Dillehay	290,868	Dec. 25	1902	525	25	1243
Vehicle-brake	G. R. Duval	271,047	Jan. 23	1507	435	23	307
Vehicle-brake	D. Green	282,717	Aug. 7	302	85	24	552
Vehicle-brake	E. R. Kugler	270,815	Jan. 16	1224	354	23	254
Vehicle-brake	M. Mais	280,939	July 10	751	209	24	138
Vehicle-brake	F. I. Meyers	270,328	Jan. 9	596	176	23	126
Vehicle brake and starter	H. Marneffe	277,308	May 8	993	267	23	1803
Vehicle-brake. Automatic	R. R. Pace	289,698	Dec. 4	419	117	25	959
Vehicle chafe-iron	E. P. Roche	279,816	June 19	1478	415	23	2380
Vehicle dash-board	J. F. Fowler	282,511	Aug. 7	42	12	24	507
Vehicle dash-board	W. A. Packard	275,257	Apr. 3	477	133	23	1307
Vehicle-dash fastening	F. C. Ayer	271,017	Jan. 23	1475	425	23	302
Vehicle-dash fastening	W. H. Sparks	285,519	Sept. 25	1662	467	24	1212
Vehicle-dash frames. Foot-iron for	W. F. Elliott and S. D. Lance	275,811	Apr. 17	1242	342	23	1454
Vehicle drop-perch	J. Herbrand	276,967	May 1	567	148	23	1723
Vehicle. Electric	J. R. Finney	270,186	Jan. 2	420	122	23	86
Vehicle-hound socket	H. McFarlane	277,313	May 8	999	268	23	1804
Vehicle jump-seat	C. Bauer	283,370	Aug. 21	1097	308	24	710
Vehicle platform-gear	P. B. Cunningham	277,834	May 15	1610	440	23	1916
Vehicle propelled by electricity	E. Fox	281,859	July 24	1922	525	24	354
Vehicle-reach	C. K. Robinson	271,520	Jan. 30	2111	607	23	420
Vehicle-reach	J. F. A. Winkelmann and M. L. Stowart.	272,929	Feb. 27	1717	480	23	762
Vehicle-reach coupling	S. E. Foster	273,056	Feb. 27	1864	523	23	788
Vehicle rub-iron	C. C. and F. G. Keen	278,149	May 22	1999	549	23	1989
Vehicle rub-iron	D. Shelton	275,865	Apr. 17	1306	359	23	1465
Vehicle running-gear	A. J. Beach	279,213	June 12	748	205	23	2261
Vehicle running-gear	H. W. Chamberlain and F. G. Harris.	285,227	Sept. 18	1315	370	24	1144
Vehicle running-gear	J. T. Gurney	272,238	Feb. 13	810	225, 226	23	593
Vehicle running-gear	J. Herbrand	277,725	May 15	1483	401	23	1893
Vehicle running-gear	T. B. Jones	282,733	Aug. 7	317	90, 91	24	555
Vehicle running-gear	G. Kelly	284,640	Sept. 11	586	165	24	1010
Vehicle running-gear	J. McLaughlin	275,400	Apr. 10	706	188	23	1356
Vehicle running-gear	O. M. Phelps and C. Hanson	290,104	Dec. 11	901	256	25	1053
Vehicle running-gear	B. M. Soule	283,293	Aug. 14	984	274, 275	24	683
Vehicle sand-band	W. Cole	287,364	Oct. 23	2003	546	25	382
Vehicle sand-band	W. M. Farr	273,832	Mar. 13	768	208	23	974
Vehicle-seat	J. W. Anderson	288,610	Nov. 20	1035	285	25	703
Vehicle-seat	F. A. Comstock	279,637	June 19	1278	355	23	2355
Vehicle-seat	F. A. Comstock	286,178	Oct. 9	489	135	25	101
Vehicle-seat	J. Newman	279,266	June 12	811	224	23	2272
Vehicle-seat	J. Robinson	283,922	Aug. 28	1754	495	24	841
Vehicle-seat	F. Thomas	290,283	Dec. 18	1130	317, 318	25	1101
Vehicle-seat	W. J. Ulrich	279,288	June 12	835	231	23	2276
Vehicle-seat bar	A. C. Evans	282,181	July 31	2347	646	24	429
Vehicle-seat lock	R. D. Woodford	281,600	July 17	1576	431	24	287
Vehicle-seat spring	J. W. Wetmore	275,446	Apr. 10	766	204	23	1365
Vehicle-seat spring	J. W. Wetmore	275,555	Apr. 10	901	244	23	1388
Vehicle shifting-rail	N. Lennon	289,845	Dec. 11	569	165, 166	25	998
Vehicle shifting-rail	F. Schreidt	280,674	July 3	403	113	24	72
Vehicle shifting-rail	F. Schreidt	288,597	Nov. 13	1018	279	25	694

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Vehicle shifting seat	R. Fawcett	272,490	Feb. 20	1056	{296 297}	23	639
Vehicle. Side-bar	F. G. Bippus	281,962	July 24	2051	562	24	376
Vehicle. Side-bar	J. Geibel and E. G. Price	287,016	Oct. 23	1567	432	25	302
Vehicle. Side-spring	C. Fish	287,918	Nov. 6	162	47	25	536
Vehicle. Side-spring	J. Kengel	273,289	Mar. 6	54	16	23	844
Vehicle. Side-spring	C. W. Saladee	274,390	Mar. 20	1474	405	23	1104
Vehicle side spring	E. Tecktonius	279,507	June 12	1124	311	23	2321
Vehicle. Spring-	C. M. Blydenburgh	275,572	Apr. 10	922	{249 250}	23	1391
Vehicle. Spring-	A. E. Hermann	277,032	May 8	655	171	23	1744
Vehicle. Spring-	A. E. Herman	288,634	Nov. 20	1066	293	25	708
Vehicle. Spring-	C. Huffsteter	284,206	Sept. 4	63	17	24	915
Vehicle. Spring-	G. W. Mart	284,455	Sept. 4	359	99	24	965
Vehicle. Spring-	D. P. Sharp	276,906	May 1	477	126	23	1709
Vehicle-spring	D. Argerbright	279,686	June 19	1338	372	23	2365
Vehicle-spring	V. M. Backus	274,547	Mar. 27	1700	472	23	1148
Vehicle-spring	V. M. Backus	287,404	Oct. 30	2059	559	25	400
Vehicle-spring	S. A. Bailey	271,187	Jan. 23	1683	485	23	336
Vehicle-spring	W. D. Bartlett	280,117	June 26	1852	522	23	2463
Vehicle-spring	L. F. Betts	277,204	May 8	872	231	23	1781
Vehicle-spring	C. C. Bishop	274,880	Mar. 27	2099	583	23	1218
Vehicle-spring	W. Boughton	273,449	Mar. 6	209	72	23	879
Vehicle-spring	J. Carroll	289,067	Nov. 27	1602	444	25	810
Vehicle-spring	P. G. Clancy	289,981	Dec. 11	757	{213 214}	25	1027
Vehicle-spring	W. Cole	286,532	Oct. 9	938	252	25	181
Vehicle-spring	H. B. Cornish and S. E. Hall	288,312	Nov. 13	646	177	25	628
Vehicle-spring	J. Hanser	280,613	July 3	329	92	24	59
Vehicle-spring	J. R. Hunzinger	275,769	Apr. 10	1180	324	23	1436
Vehicle-spring	J. Kengel	278,971	June 5	436	119	23	2197
Vehicle-spring	C. C. King	282,904	Aug. 7	512	143	24	591
Vehicle-spring	F. J. Larkin	284,214	Sept. 4	75	21	24	918
Vehicle-spring	S. W. Ludlow	290,251	Dec. 18	1085	303	25	1095
Vehicle-spring	N. L. McAdam	284,748	Sept. 11	728	204	24	1034
Vehicle-spring	W. H. McDaniel and U. Perrine	279,783	June 19	1440	403	23	2384
Vehicle-spring	W. H. McDaniel, U. Perrine, and F. S. Peck.	280,204	June 26	1946	547	23	2479
Vehicle-spring	J. T. McIntyre and J. G. Parsons	276,700	May 1	210	54	23	1660
Vehicle-spring	D. McVaw	264,649	Sept. 11	598	{168 169}	24	1011
Vehicle-spring	M. Medart	278,033	May 22	1857	507	23	1965
Vehicle-spring	J. H. Moran	277,770	May 15	1542	419	23	1904
Vehicle-spring	W. J. Moran	280,391	July 3	64	17	24	14
Vehicle-spring	W. G. Mowry	290,461	Dec. 18	1375	380	25	1144
Vehicle-spring	R. Mulholland	289,438	Dec. 4	79	22, 23	25	900
Vehicle-spring	C. M. Murch	286,725	Oct. 16	1193	321	25	231
Vehicle-spring	J. Nutt	290,701	Dec. 25	1691	465	25	1205
Vehicle-spring	J. M. Payne	280,852	July 10	638	180	24	119
Vehicle-spring	W. M. Peck	273,242	Feb. 27	2097	588	23	828
Vehicle-spring	G. Penn and J. D. Whitney	277,504	May 15	1225	330	23	1849
Vehicle-spring	L. Pentz	282,563	Aug. 7	109	33	24	519
Vehicle-spring	G. F. Putman	281,728	July 24	1753	476	24	323
Vehicle-spring	W. J. and G. W. Rose	290,934	Dec. 25	1990	549	25	1258
Vehicle-spring	C. W. Saladee	275,417	Apr. 10	725	193	23	1359
Vehicle-spring	C. W. Saladee	281,561	July 17	1524	418	24	280
Vehicle-spring	J. B. Sliter and C. T. Bazzett	281,934	July 24	2013	551	24	370
Vehicle-spring	F. C. Smith and J. W. Weitzell	283,525	Aug. 21	1276	357	24	742
Vehicle-spring	A. J. Spalding	287,063	Oct. 23	1627	447	25	314
Vehicle-spring	F. J. Springer	280,874	July 10	665	187	24	124
Vehicle-spring	W. H. Stickle. (Reissue)	10,372	Aug. 21	1533	432	24	791
Vehicle-spring	W. F. Sweet	289,361	Nov. 27	1952	{542 543}	25	876
Vehicle-spring	W. H. Tarbell	274,098	Mar. 13	1090	300	23	1029
Vehicle-spring	I. F. Tucker	275,439	Apr. 10	758	202	23	1364
Vehicle-spring	M. W. Tucker	272,922	Feb. 27	1709	478	23	760
Vehicle-spring	J. W. Wetmore	289,046	Nov. 27	1578	{435 436}	25	806
Vehicle-spring	S. H. Wooldridge	284,562	Sept. 4	517	145	24	991
Vehicle-spring attachment	J. B. Whitcomb	288,604	Nov. 13	1027	282	25	695
Vehicle-spring brace	S. R. Bergen	276,213	Apr. 24	1725	477	23	1546
Vehicle-spring center-bar	B. F. Lewis	285,420	Sept. 25	1550	436	24	1192
Vehicle-spring coupling	T. D. Lines	277,583	May 15	1323	355	23	1864
Vehicle-spring coupling	T. D. Lines	277,584	May 15	1324	355	23	1865
Vehicle-spring coupling	T. D. Lines	277,585	May 15	1324	356	23	1865
Vehicle spring-seat	J. Burleigh	290,743	Dec. 25	1753	484	25	1217
Vehicle spring-seat	G. W. Heartley	285,617	Sept. 25	1781	506	24	1235
Vehicle spring-seat	C. F. Lancaster	290,437	Dec. 18	1340	371	25	1138
Vehicle spring. Two-wheeled	F. Schelp, Jr	285,167	Sept. 18	1248	350	24	1132
Vehicle. Steam road	G. A. Long	281,091	July 10	923	258	24	170
Vehicle. Three-wheeled	M. A. Stevens	281,575	July 17	1540	422	24	282
Vehicle-top	D. Bullock	276,957	May 1	566	145	23	1721
Vehicle-top bow	S. H. Raymond	279,016	June 5	493	134	23	2207
Vehicle-top bow	S. H. Raymond. (Reissue)	10,422	Dec. 11	1010	284	25	1073
Vehicle-tops. Hood for	C. T. Shreve	276,908	May 1	478	126	23	1710
Vehicle. Two-wheeled	W. T. Adel	271,294	Jan. 30	1812	526	23	367
Vehicle. Two-wheeled	D. Argerbright	285,202	Sept. 18	1284	361	24	1139
Vehicle. Two-wheeled	J. C. Bach	288,757	Nov. 20	1225	335	25	735
Vehicle. Two-wheeled	J. B. Barnes	283,061	Aug. 14	701	197	24	632
Vehicle. Two-wheeled	M. Barnes	281,429	July 17	1360	375	24	252
Vehicle. Two-wheeled	C. S. Beebe	281,434	July 17	1365	377	24	253
Vehicle. Two-wheeled	S. H. Bell	278,855	June 5	251	72, 73	23	2166
Vehicle. Two-wheeled	J. A. Bilz	273,804	Mar. 13	730	198	23	968

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Vehicle. Two-wheeled	R. F. Briggs	279,531	June 19	1159	321	23	2334
Vehicle. Two-wheeled	J. M. Bromley	281,337	July 17	1947	346	24	223
Vehicle. Two-wheeled	T. H. Brown	286,174	Oct. 9	483	134	25	109
Vehicle. Two-wheeled	C. W. Burgtorf	285,793	Oct. 2	15	5	25	5
Vehicle. Two-wheeled	A. Burkhard	275,133	Apr. 3	335	92	23	1284
Vehicle. Two-wheeled	J. H. Bustin	283,698	Aug. 21	1477	416	24	781
Vehicle. Two-wheeled	A. K. Caverly	278,222	May 22	2093	576	23	2006
Vehicle. Two-wheeled	D. E. Chandler and J. C. Williams	279,080	June 5	572	157	23	2222
Vehicle. Two-wheeled	D. E. Chandler and J. C. Williams	281,971	July 24	2059	564	24	377
Vehicle. Two-wheeled	D. E. Chandler and J. C. Williams	281,972	July 24	2060	565	24	377
Vehicle. Two-wheeled	J. A. Chapman	277,409	May 8	1103	296	23	1822
Vehicle. Two-wheeled	J. A. Chapman	280,794	July 10	575	160	24	108
Vehicle. Two-wheeled	J. A. Chapman	280,795	July 10	576	161	24	108
Vehicle. Two-wheeled	L. Christy	281,670	July 24	1672	456	24	309
Vehicle. Two-wheeled	L. S. Clark	286,905	Oct. 16	1419	389	25	271
Vehicle. Two-wheeled	J. T. Clarkson	272,208	Feb. 13	773	214	23	585
Vehicle. Two-wheeled	N. B. Clinch	287,000	Oct. 23	1543	425	25	297
Vehicle. Two-wheeled	J. W. Coe and D. Merritt	281,457	July 17	1402	385	24	259
Vehicle. Two-wheeled	J. Collins	281,023	July 10	843	234	24	156
Vehicle. Two-wheeled	E. F. Conner	274,722	Mar. 27	1902	531	23	1186
Vehicle. Two-wheeled	G. W. Crofoot	290,976	Dec. 25	2035	565	25	1967
Vehicle. Two-wheeled	F. G. Davis	270,285	Jan. 9	543	160	23	116
Vehicle. Two-wheeled	A. H. Dickey	274,739	Mar. 27	1918	535	23	1189
Vehicle. Two-wheeled	F. Doherty and E. L. Sies	286,184	Oct. 9	498	137	25	103
Vehicle. Two-wheeled	T. Duke	285,592	Sept. 25	1749	496	24	1229
Vehicle. Two-wheeled	G. W. Dutton	274,183	Mar. 20	1205	331	23	1057
Vehicle. Two-wheeled	J. J. Folmer and C. E. Bradley	284,198	Sept. 4	53	15	24	913
Vehicle. Two-wheeled	A. G. W. Foster	279,931	June 26	1631	457	23	2423
Vehicle. Two-wheeled	C. A. Foster	290,563	Dec. 18	1517	417	25	1168
Vehicle. Two-wheeled	J. G. Gay	272,678	Feb. 20	1378	387	23	696
Vehicle. Two-wheeled	L. Green	281,994	July 24	2062	571	24	381
Vehicle. Two-wheeled	M. Halfpenny	277,492	May 15	1200	322	23	1845
Vehicle. Two-wheeled	G. P. Kimball	272,557	Feb. 20	1221	341	23	668
Vehicle. Two-wheeled	G. Larsen	286,314	Oct. 9	679	181	25	133
Vehicle. Two-wheeled	J. R. Locke	290,248	Dec. 18	1063	303	25	1094
Vehicle. Two-wheeled	P. Lugenbell	272,260	Feb. 13	863	241	23	602
Vehicle. Two-wheeled	F. A. Maus	281,896	July 24	1971	539	24	362
Vehicle. Two-wheeled	J. H. McKenzie and J. Keller	278,720	June 5	60	18	23	2135
Vehicle. Two-wheeled	H. G. Mickle	279,968	June 26	1674	470	23	2430
Vehicle. Two-wheeled	R. C. Morse	274,636	Mar. 27	1805	501	23	1168
Vehicle. Two-wheeled	C. M. Murch	281,783	July 24	1928	499	24	337
Vehicle. Two-wheeled	J. P. Muttersbach	285,153	Sept. 18	1231	346	24	1128
Vehicle. Two-wheeled	A. P. Nelson	288,256	Nov. 13	580	161	25	617
Vehicle. Two-wheeled	W. O'Brien	275,512	Apr. 10	848	230	23	1379
Vehicle. Two-wheeled	C. K. Paddock	278,358	May 29	2301	630	23	2050
Vehicle. Two-wheeled	H. D. Page and W. E. Raynor	274,217	Mar. 20	1254	346	23	1065
Vehicle. Two-wheeled	F. L. Perry	278,041	May 22	1864	509 510	23	1966
Vehicle. Two-wheeled	F. L. Perry	280,235	June 26	1990	559 560	23	9487
Vehicle. Two-wheeled	F. L. Perry	283,811	Aug. 28	1628	458	24	819
Vehicle. Two-wheeled	N. Peterson	279,428	June 12	1031	286	23	2306
Vehicle. Two-wheeled	B. S. Porter	286,483	Oct. 9	875	237	25	170
Vehicle. Two-wheeled	J. Price	286,733	Oct. 16	1203	324	25	233
Vehicle. Two-wheeled	A. Rasmussen	272,322	Feb. 13	909	254	23	610
Vehicle. Two-wheeled	A. Reichle	286,734	Oct. 16	1204	325	25	234
Vehicle. Two-wheeled	G. Renick and J. A. Curtis	279,809	June 19	1470	412	23	2339
Vehicle. Two-wheeled	C. W. Saladee	270,700	Jan. 16	1087	311	23	227
Vehicle. Two-wheeled	C. W. Saladee	282,378	July 31	2587	710 711	24	471
Vehicle. Two-wheeled	A. F. Sargent	273,610	Mar. 6	476	128	23	915
Vehicle. Two-wheeled	L. G. Sayre	281,304	July 17	1204	333	24	226
Vehicle. Two-wheeled	H. C. Sears	280,594	July 3	228	60	24	41
Vehicle. Two-wheeled	H. T. Seeley	275,064	Apr. 3	270	74	23	1272
Vehicle. Two-wheeled	D. P. Sharp	280,962	July 10	775	215	24	142
Vehicle. Two-wheeled	W. Shimp	290,123	Dec. 11	930	264	25	1059
Vehicle. Two-wheeled	F. M. Simmonds	281,309	July 17	1211	335	24	227
Vehicle. Two-wheeled	G. E. Spare	274,401	Mar. 20	1487	409	23	1106
Vehicle. Two-wheeled	F. J. and O. J. Springer	280,875	July 10	666	188	24	124
Vehicle. Two-wheeled	H. F. Stahmer	271,532	Jan. 30	2122	611	23	422
Vehicle. Two-wheeled	E. Storm	270,504	Jan. 9	821	239	23	170
Vehicle. Two-wheeled	C. H. Straight	276,500	Apr. 24	2090	581	23	1608
Vehicle. Two-wheeled	C. Trerwiler and T. Bast	276,309	Apr. 24	1844	513	23	1566
Vehicle. Two-wheeled	H. Watts	275,965	Apr. 17	1417	391	23	1486
Vehicle. Two-wheeled	E. Whitmore	272,815	Feb. 20	1551	435	23	727
Vehicle. Two-wheeled	B. P. Whitney	272,177	Feb. 13	734	203	23	579
Vehicle. Two-wheeled	S. M. Wier	275,307	Apr. 3	540	147	23	1318
Vehicle. Two-wheeled	O. Willson	272,928	Feb. 27	1715	480	23	761
Vehicle. Two-wheeled	P. Wineman	281,328	July 17	1239	343	24	231
Vehicle. Two-wheeled	A. Woeber	277,968	May 22	1776	484	23	1950
Vehicle. Two-wheeled	J. M. Wood	272,396	Feb. 13	1016	284	23	627
Vehicle. Two-wheeled	R. G. Wood	288,538	Nov. 13	945	258	25	680
Vehicle. Two-wheeled	G. A. Wright, L. H. Fowler, and S. Shaw.	269,982	Jan. 2	187	54	23	39
Vehicle-wheel	L. and F. Burnett	275,120	Apr. 3	317	88	23	1280
Vehicle-wheel	J. J. Bush	283,563	Aug. 21	1323	370	24	751
Vehicle-wheel	J. Clark	269,919	Jan. 2	112	33	23	23
Vehicle-wheel	S. and R. Day	284,724	Sept. 11	701	196	24	1029
Vehicle-wheel	A. L. Engelbach	284,621	Sept. 11	566	160	24	1006
Vehicle-wheel	E. G. Ferguson	277,252	May 8	926	248	23	1791
Vehicle-wheel	J. Frenier	285,401	Sept. 25	1594	429	24	1187
Vehicle-wheel	F. M. Gideon	278,534	May 29	2513	686	23	2088
Vehicle-wheel	J. Harris, Jr.	272,133	Feb. 13	688	187	23	570
Vehicle-wheel	M. C. Johnson	273,850	Mar. 13	790	214	23	978

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Vehicle-wheel	J. Lane	278,438	May 29	2398	653, 654	23	2067
Vehicle-wheel	J. Lane	278,665	May 29	2669	730	23	2115
Vehicle-wheel	E. Lawson	280,634	July 3	357	99	24	63
Vehicle-wheel	O. Look	281,279	July 17	1172	324	24	220
Vehicle-wheel	W. Notley	286,476	Oct. 9	866	235	25	168
Vehicle-wheel	E. H. Scott and J. Frenier	276,899	May 1	468	123	23	1708
Vehicle-wheel	B. C. Seaton	285,515	Sept. 25	1657	466	24	1211
Vehicle-wheel	G. S. Sheffield	279,449	June 12	1052	291	23	2310
Vehicle-wheel	B. N. Shelley	270,493	Jan. 9	805	235	23	167
Vehicle-wheel	C. Snyder	271,935	Feb. 6	426	116	23	515
Vehicle-wheel	Z. Sprague	271,531	Jan. 30	2121	610	23	422
Vehicle-wheel	A. Vreeland	284,990	Sept. 11	1017	286	24	1086
Vehicle-wheel	T. Warwick	289,733	Dec. 4	455	127, 128	25	966
Vehicle-wheel	M. L. Winters	287,075	Oct. 23	1642	451	25	317
Vehicle-wheel	A. Wyckoff	278,479	May 29	2445	667	23	2076
Vehicle. Wheeled	W. Boyd	279,529	June 19	1157	320	23	2334
Vehicle. Wheeled	T. F. Krajewski	289,421	Dec. 4	58	17	25	897
Vehicles. Mechanism for propelling	W. S. Mitchell	271,899	Feb. 6	378	104, 105	23	507
Vehicles. Sand-protector for	W. M. Farr	270,650	Jan. 16	1022	294	23	216
Velocipede	W. F., J. P., and J. G. Ahlert	287,989	Nov. 6	257	73	25	552
Velocipede	C. R. Baillie-Hamilton	270,896	Jan. 23	1322	381, 382	23	278
Velocipede	J. Baker	273,007	Feb. 27	1805	505, 506	23	777
Velocipedo	W. P. Benham	277,870	May 22	1663	454	23	1931
Velocipede	H. Blumo	276,979	Apr. 17	1433	395	23	1489
Velocipede	A. J. Branham	283,697	Aug. 21	1476	416	24	781
Velocipede	J. O. Brown. (Reissue)	10,307	Apr. 10	1209	331	23	1440
Velocipede	J. S. Carr	273,815	Mar. 13	748	203, 204	23	970
Velocipede	J. J. Cox	271,800	Feb. 6	259	72	23	486
Velocipede	L. D. Cox	279,541	June 19	1168	323, 324	23	2336
Velocipede	T. A. Davies	276,786	May 1	334	88, 89	23	1684
Velocipede	W. B. Denton	279,356	June 12	931	260	23	2291
Velocipede	J. J. Deputy	286,593	Oct. 16	1021	277	25	202
Velocipede	D. E. Dutrow	277,246	May 8	918	246	23	1790
Velocipede	L. W. Elliott	288,219	Nov. 13	527	147	25	609
Velocipede	J. L. Ellis	280,299	June 26	2072	583	23	2502
Velocipede	O. T. Gleason	289,907	Dec. 11	672	187	25	1011
Velocipede	M. Grahser	287,825	Nov. 6	43	13	25	515
Velocipede	C. W. Hays	280,927	July 10	733	204	24	135
Velocipede	Z. Hendrickson	280,473	July 3	175	46	24	32
Velocipede	C. E. Hiester	285,130	Sept. 18	1200	336, 337	24	1123
Velocipede	W. S. Holland	285,035	Sept. 18	1091	304	24	1105
Velocipede	C. T. Holloway	274,196	Mar. 20	1219	335	23	1059
Velocipede	T. B. Jeffery	275,917	Apr. 17	1364	376	23	1475
Velocipede	T. B. Jeffery	282,528	Aug. 7	65	19	24	511
Velocipede	S. H. Kimball	278,972	June 5	437	119	23	2198
Velocipede	J. J. A. Larroque	288,821	Nov. 20	1298	355, 356	25	748
Velocipede	J. W. and C. F. Post	285,513	Sept. 25	1652	464, 465	24	1210
Velocipede	L. Schmetzer	271,524	Jan. 30	2114	608	23	421
Velocipede	G. N. Spencer	270,913	Jan. 23	1345	388	23	282
Velocipede	J. J. Staasen	284,509	Sept. 4	429	122	24	976
Velocipede	C. F. Waldo	284,781	Sept. 11	769	215, 216	24	1040
Velocipede	C. H. Warner	282,938	Aug. 7	544	154, 155	24	597
Velocipede	C. H. Warner	283,306	Aug. 14	998	280	24	686
Velocipede	C. V. Woerd	288,537	Nov. 13	944	258	25	680
Velocipede-brake	J. Knous	279,956	June 26	1662	467	23	2428
Velocipede driving-gear	G. W. Quatremaine	287,960	Nov. 6	217	61, 62	25	545
Velocipede-gearing	W. P. Anthony	277,974	May 22	1781	486	23	1951
Velocipede. Marine	F. A. Coomans	271,799	Feb. 6	257	72	23	485
Velocipede-pedal	J. Knous	281,889	July 24	1961	537	24	361
Velocipede. Railway-	I. W. McGaffey	286,623	Oct. 16	1064	286	25	209
Velocipede. Railway-	G. W. Miller	289,017	Nov. 27	1533	424	25	798
Velocipede. Railway-	F. W. Randall	270,480	Jan. 9	791	231	23	164
Velocipede. Railway-	G. N. Spencer	288,507	Nov. 13	912	249	25	674
Velocipede-wheel	A. H. Overman and C. F. Hadley	283,413	Aug. 21	1140	322	24	718
Veneer	F. Koskul	289,005	Nov. 27	1620	421	25	797
Veneer. Brilliant	F. Koskul	288,712	Nov. 20	1163	319	25	724
Veneer-cutting knife	H. J. Mark	288,463	Nov. 13	857	232	25	664
Veneer-cutting machine	H. J. Mark	288,585	Nov. 13	1001	275, 276	25	691
Veneer-dish machine	R. Bowers	269,822	Jan. 2	2	1	23	3
Veneer fabric	F. Koskul	288,453	Nov. 13	843	228	25	662
Veneer-press	R. Goff	273,723	Mar. 13	615	165, 166	23	947
Veneering or covering articles with pyroxyline, &c. Apparatus for	J. A. McClelland	271,495	Jan. 30	2080	599	23	415
Veneering or covering articles with pyroxyline compounds, &c.	J. A. McClelland	271,494	Jan. 30	2078	598	23	415
Veneering or covering articles with pyroxyline or other plastic material. Mold for	J. A. McClelland	271,496	Jan. 30	2082	599	23	416
Veneering to buildings. Securing slabs of	B. Morton and A. Tilley	283,012	Aug. 14	641	181	24	621
Vent for beer-barrels	G. Hopf	281,694	July 24	1707	464	24	315
Vent for casks	J. Poznanski	289,555	Dec. 4	230	64	25	927

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Vent for water-pipes. Automatic	J. D. Westgate	290,894	Dec. 25	1854	513	25	1225
Vent or vent-bung	J. P. Grnber	271,236	Jan. 30	1739	503	23	355
Vent-plug	F. L. Polle	284,479	Sept. 4	385	107	24	940
Ventilating and apparatus therefor	T. Rowan	283,148	Aug. 14	801	294	24	640
Ventilating and heating apparatus. Combined	C. Wheat	285,533	Sept. 25	1679	472	24	1215
Ventilating apartments. Apparatus for	J. Fernie	280,595	July 3	310	86	24	55
Ventilating apparatus	J. Fernie	280,594	July 3	309	86	24	55
Ventilating apparatus	L. J. Wing	285,865	Oct. 2	107	38	25	21
Ventilating buildings and chimney-stacks. Apparatus for	A. W. Kershaw	281,062	July 10	914	255	24	160
Ventilating buildings, ships, vessels, railway-carriages, &c. Method of and apparatus for	T. Rowan	272,158	Feb. 13	713	196	23	575
Ventilating-door for mines	C. P. Moyer	286,549	Oct. 9	958	256	25	184
Ventilating, heating, and cooling buildings. Apparatus for	T. McGrory	284,140	Aug. 28	2053	569	24	892
Ventilating-screen for windows	E. W. Philbrook	286,555	Oct. 9	968	260	25	186
Ventilating-screen for windows	S. B. Stearns	271,146	Jan. 23	1623	467	23	327
Ventilating sewers and drains. Apparatus for	T. Rowan	284,761	Sept. 11	746	207	24	1036
Ventilating water-closets. Apparatus for	F. Hainsworth. (Reissue)	10,346	June 26	2122	596	23	2510
Ventilation	W. T. Cottier	281,027	July 10	847	{235 236}	24	157
Ventilation	A. J. Hendry	287,434	Oct. 30	2093	569	25	406
Ventilator: *See* Blast-pipe ventilator. Car-ventilator. Car-window ventilator. Chimney-ventilator. Kitchen-ventilator. Millstone-ventilator. Stove-ventilator. Suction-ventilator. Window-ventilator. Window-sash ventilator.							
Ventilator	J. M. Blackman	273,805	Mar. 13	731	198	23	908
Ventilator	W. P. Buchan	288,004	Nov. 6	277	78	25	555
Ventilator	R. Foulsham	288,564	Nov. 13	973	268	25	685
Ventilator	D. Groesbeck	290,041	Dec. 11	832	{235 236}	25	1040
Ventilator	M. A. W. Louis	289,426	Dec. 4	65	19	25	898
Ventilator	W. E. Moore	281,286	July 17	1180	326	24	222
Ventilator	W. Schmolz	287,477	Oct. 30	2147	584	25	418
Ventilator	F. R. Siltz	280,092	June 26	1826	513	23	2458
Ventilator	G. Smart	280,526	July 3	230	61	24	41
Ventilator	D. B. Taylor	282,800	Aug. 7	390	110	24	568
Ventilator	R. Waide	279,291	June 12	837	232	23	2276
Vermin. Strip for repelling and destroying	S. Curtiss	274,284	Mar. 20	1336	368	23	1079
Vertical multitubular boiler	W. Wilkinson	279,470	June 12	1073	297	23	2314
Vessel-hull	D. Bainbridge	272,621	Feb. 20	1309	365	23	684
Vessel. Iron-clad	A. Alfson	277,972	May 22	1779	{485 486}	23	1951
Vessel-unloading apparatus	O. Sherwood	274,983	Apr. 3	198	36	23	1947
Vessels. Apparatus for raising sunken	H. Schuyler	287,586	Oct. 30	2299	622	25	447
Vessels. Apparatus for unloading coal from	W. S. Bogle	280,284	June 26	2047	575	23	2497
Vessels. Auxiliary steam-power for sailing	G. H. Reynolds	278,182	May 22	2040	{560 561}	23	1997
Vessels. Construction of	J. S. Birch	277,443	May 15	1155	310	23	1837
Vessels. Construction of sea-going	J. L. Eshelman	279,863	June 19	1539	430	23	2400
Vessels for carrying railway-cars. Adjustable elevator-platform for	J. J. De Rycke	283,218	Aug. 14	889	248	24	666
Vessels. Headway and leeway indicator for	B. E. Blakeslee	290,840	Dec. 25	1868	516	25	1237
Vessels in water. Reducing friction of	G. De Laval	280,913	July 10	707	199	24	131
Vessels. Lighter for loading	J. C. Gibbs	275,479	Apr. 10	809	219	23	1372
Vessels. Steadying floating	J. F. C. Farquhar	283,091	Aug. 14	733	206	24	638
Vial or bottle	C. Toussaint	274,995	Apr. 3	142	40	23	1950
Vignetting attachment	O. H. Park and W. H. Elliott	286,632	Oct. 16	1074	289	25	211
Vinegar-generator	R. H. Herder	288,055	Nov. 6	333	93	25	564
Vinegar-generators. Automatic feeder for	P. and J. Spielmann	287,064	Oct. 23	1627	448	25	314
Vines. Twine-setter for	A. P. Root	283,516	Aug. 21	1267	355	24	740
Violin-bow retainer	C. F. Albert	277,653	May 15	1406	{378 379}	23	1879
Violin-bridge	P. Topham	278,634	May 29	2634	720	23	2108
Violin chin-rest	G. T. Lawrence	275,672	Apr. 10	1052	286	23	1414
Violin. Piano-	J. Parsons and J. W. Trinkle	272,314	Feb. 13	898	251	23	608
Vise	W. T. Anderson	287,993	Nov. 6	261	74	25	553
Vise	J. O. Barrett	284,997	Sept. 18	1035	290	24	1096
Vise	J. O. Barrett	286,990	Oct. 23	1532	422	25	295
Vise	C. M. Boyce	286,995	Oct. 23	1537	423	25	296
Vise	J. C. Coram	281,463	July 17	1407	{386 387}	24	960
Vise	D. Davis	271,316	Jan. 30	1840	534	23	372
Vise	C. Fisher	282,975	Aug. 14	590	166	24	612
Vise	P. A. Gladwin	287,271	Oct. 23	1867	516	25	361
Vise	J. W. Hudson	288,438	Nov. 13	823	223	25	659
Vise	W. Johnson	277,570	May 15	1308	351	23	1862
Vise	N. M. McLeod	277,592	May 15	1332	357	23	1866
Vise	E. L. Morris	288,722	Nov. 20	1185	323	25	727
Vise	J. A. Painter	276,622	May 1	95	26	23	1644
Vise	G. Thorp	286,345	Oct. 9	719	192	25	140
Vise. Bench-	W. H. Cloud	288,549	Nov. 13	956	263	25	662
Vise. Bench-	M. G. Lewis	279,260	June 12	803	{222 223}	23	2271
Vise. Bench-	G. W. Pittman	277,158	May 8	821	216	23	1773
Vise. Bench-	G. H. Wood	274,242	Mar. 20	1286	354	23	1071
Vise. Hand-	G. Amborn, Jr., and E. D. Chaplin.	282,033	July 31	2133	586	24	395
Vise. Hand or wire	S. B. Whitehead	289,903	Jan. 2	95	28	23	20
Vise. Pipe-	A. Beard	272,193	Feb. 13	753	208	23	568
Vise. Pivoted-jaw	A. J. Odom	280,226	June 26	1978	556	23	2485

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Visual indicator. Electrical	J. U. Mackenzie	273,563	Mar. 6	419	112 113	23	906
Volatile or inflammable fluids and oils. Treating	S. M. Eiseman	282,970	Aug. 14	585	.....	24	611
Voltaic-arc light	W. Baxter, Jr	288,157	Nov. 6	445	125	25	585
Voltaic-arc light	O. A. Moses	276,702	May 1	212	55	23	1660
Voltaic battery	J. M. Stebbins	272,493	Feb. 20	1148	392	23	655
Voltaic battery. Portable	J. Mackenzie	270,551	Jan. 9	891	258	23	184
Votes. Apparatus for registering	H. Zimmer	272,011	Feb. 6	521	140	23	530
Voting-machine for legislative bodies. Electric	J. A. Enos	287,649	Oct. 30	2380	642	25	462
Vulcanizer safety-guard and governor	W. S. Blair	286,766	Oct. 16	1242	336	25	240
Vulcanizing and celluloid apparatus	G. P. Riahel	287,723	Oct. 30	2478	668	25	481
Waffle-iron	M. Griswold and S. Selden	270,659	Jan. 16	1031	296	23	217
Waffle-iron	J. B. Harker and C. L. Wilkins	277,422	May 8	1122	301	23	1825
Waffle-iron	C. H. Newman	270,973	Jan. 23	1425	411	23	294
Waffle-iron	A. G. Patton	287,713	Oct. 30	2468	665	25	479
Wagon	R. Dalton	278,408	May 29	2339	645	23	2060
Wagon	J. Moses	281,913	July 24	1990	545	24	365
Wagon-bodies. Device for lifting	J. B. Brickhouse	287,502	Oct. 30	2178	591	25	423
Wagon-body	C. Comstock. (Reissue)	10,308	Apr. 10	1211	332	23	1441
Wagon-body	C. M. Coutant and R. Benson	273,967	Mar. 13	932	255	23	1001
Wagon-body	G. M. Hull	276,821	May 1	371	99	23	1691
Wagon-body	J. Stevens	275,868	Apr. 17	1311	361 362	23	1466
Wagon-body facing-iron	J. Jensen	280,182	June 26	1919	539	23	2474
Wagon-bolster	A. O. Wilbur	278,645	May 29	2650	725	23	2111
Wagon-bolster spring	W. Cole	290,860	Dec. 25	1893	522	25	1242
Wagon-bolster wear-plate	T. Van Aernam	270,918	Jan. 23	1350	389	23	283
Wagon-box	P. Sames	278,365	May 29	2310	632	23	2052
Wagon-box and hay-rack. Combined	J. G. Leslie and W. A. Hall	277,751	May 15	1517	411	23	1899
Wagon-box corner-plate	H. Bienhoff	281,435	July 17	1366	377	24	253
Wagon-box fastener	P. Stafford	277,801	May 15	1575	430	23	1910
Wagon-box fastener. Top	J. M. Piper	290,705	Dec. 25	1694	466	25	1206
Wagon-box straps. Mechanism for making	T. J. Bray	270,176	Jan. 2	409	119	23	83
Wagon-brake	F. B. Carson	288,546	Nov. 13	953	262	25	681
Wagon-brake	H. Felt	278,924	June 5	385	105	23	2189
Wagon-brake	F. S. Golden	270,046	Jan. 23	1386	400	23	288
Wagon-brake	J. L. Harrison	276,686	May 1	196	50	23	1657
Wagon-brake	F. Harter	278,948	June 5	411	112	23	2193
Wagon-brake	W. L. Hutson	285,624	Sept. 25	1789	508	24	1237
Wagon-brake	L. L. James	271,855	Feb. 6	328	90	23	498
Wagon-brake	D. S. Lane	288,456	Nov. 13	849	230	25	663
Wagon-brake	W. R. Long	287,037	Oct. 23	1593	438	25	307
Wagon-brake	J. F. Moore	274,017	Mar. 13	989	271	23	1011
Wagon-brake	A. Murray	279,974	June 26	1681	472	23	2431
Wagon-brake	C. Olmstead	278,589	May 29	2569	702	23	2098
Wagon-brake	J. C. Park	288,659	Nov. 20	1098	301	25	714
Wagon-brake	J. Ruka	285,077	Sept. 18	1135	317	24	1113
Wagon-brake	A. W. Shue	279,829	June 19	1498	419	23	2394
Wagon-brake	J. D. Wyer	274,874	Mar. 27	2000	580	23	1217
Wagon-brake. Automatic	J. F. Parker and C. D. Arnn	276,067	Apr. 17	1541	424	23	1506
Wagon-brake lever	J. G. Aram	282,432	July 31	2662	730	24	485
Wagon brake. Machine	D. S., I. D., and W. D. Heebner	280,300	Oct. 9	661	176	25	130
Wagon Buckboard	L. M. Fitch	270,879	Jan. 16	1294	373	23	267
Wagon. Buckboard	J. Jackson	284,019	Aug. 28	1900	532	24	867
Wagon. Buckboard	J. M. Mayer	290,445	Dec. 18	1349	373	25	1139
Wagon. Buckboard	J. H. Sinclair	277,359	May 8	1053	282 283	23	1814
Wagon. Buckboard	O. Vanorman	279,894	June 19	1576	441	23	2408
Wagon. Caterer's	E. M. Perhács and F. Neumüller	275,516	Apr. 10	853	231	23	1380
Wagon-clip	J. C. Lepscum	284,029	Aug. 28	1910	535	24	869
Wagon. Cotton-picker's	C. P. Collins	276,778	May 1	325	84	23	1662
Wagon coupling-gear	A. T. Barr	284,593	Sept. 11	531	151	24	1000
Wagon. Covered	C. Tucker	279,047	June 5	534	145	23	2214
Wagon-dump	A. K. Ersland	280,592	July 3	307	85	24	55
Wagon. Dump	G. M. Wallace	283,937	Aug. 28	1777	502	24	846
Wagon. Dumping	H. S. Bernhart and I. R. Ritter	284,368	Sept. 4	254	70	24	947
Wagon. Dumping	J. G. Coburn	270,391	Jan. 9	683	203	23	143
Wagon. Dumping	I. B. Hammond	277,483	May 15	1901	322 323	23	1845
Wagon. Dumping	R. Hudson	288,813	Nov. 20	1288	353	25	746
Wagon. Dumping	W. Hull	290,686	Dec. 25	1670	460	25	1201
Wagon. Dumping	C. Kaeppel	272,555	Feb. 20	1220	341	23	668
Wagon. Dumping	C. Kaeppel	287,547	Oct. 30	2235	607	25	435
Wagon. Dumping	K. Kennedy	289,660	Dec. 4	358	101	25	950
Wagon. Dumping	W. and J. H. Leonhardt	283,262	Aug. 14	950	265	24	676
Wagon. Dumping	H. S. Loomis	288,823	Nov. 20	1301	356	25	749
Wagon. Dumping	C. Miller	278,253	May 22	2131	587	23	2013
Wagon. Dumping	C. Miller	286,052	Oct. 2	334	92, 93	25	62
Wagon. Dumping	D. J. Russell	276,475	Apr. 24	2060	572	23	1603
Wagon. Dumping	J. P. Savage	281,141	July 10	991	277	24	181
Wagon. Dumping	G. W. Sisson	270,029	June 5	511	139	23	2210
Wagon. Dumping	M. Van Auken	276,098	Apr. 17	1580	436	23	1513
Wagon. Dumping	W. Wallace	273,202	Feb. 27	2044	575	23	890
Wagon-gear	W. R. Boling	287,797	Nov. 6	11	3	25	509
Wagon-gear	W. P. Brown	284,809	Sept. 11	804	224	24	1046
Wagon gear. Platform	M. Halfpenny	282,455	July 31	2690	738 739	24	489
Wagon-gearing	T. Seaman	272,908	Feb. 27	1693	474	23	758
Wagon-gearing. Plow attachment for	W. H. Kremser	276,975	May 1	575	151	23	1724
Wagon-hound	A. J. Harper	271,631	Feb. 6	61	17	23	450
Wagon-hound	A. J. Harper	275,907	Apr. 17	1353	372	23	1474
Wagon-iron	J. H. Chamberlin	282,496	Aug. 7	20	5	24	504
Wagon-jack	J. R. Angel	279,903	June 26	1594	447	23	2417
Wagon-jack	T. T. and E. Barber	270,924	Jan. 23	1357	391	23	284

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wagon-jack	A. J. Burke	288,772	Nov. 20	1240	340	25	738
Wagon-jack	W. C. Campbell	276,771	May 1	314	82	23	1080
Wagon-jack	A. B. Furman	274,584	Mar. 27	1747	485	23	1157
Wagon-jack	W. G. Garth	276,236	Apr. 24	1756	488	23	1551
Wagon-jack	J. T. Gilbert	286,291	Oct. 9	653	173	25	198
Wagon-jack	I. M. Johnson	276,594	May 1	66	18	23	1039
Wagon-jack	F. Kellogg	274,498	Mar. 27	1638	455	23	1138
Wagon-jack	T. Miller, Jr	275,931	Apr. 17	1380	380	23	1478
Wagon-jack	A. E. Petticrew	278,594	May 29	2579	704	23	2099
Wagon-jack	C. H. Swink	287,191	Oct. 23	1786	490	25	344
Wagon-jack	A. H. Taft	288,275	Nov. 13	606	166	25	621
Wagon-lock	J. Wilson	282,826	Aug. 7	419	118	24	574
Wagon. Log-	A. W. Cagle	275,016	Apr. 3	173	47	23	1255
Wagon. Milk-	E. Borden	270,539	Jan. 9	875	254	23	181
Wagon. Platform-	P. Huff	287,541	Oct. 30	2225	604, 605	25	433
Wagon platform-gear	W. S. Appleget	277,186	May 8	853	226	23	1778
Wagon platform-gear	E. Clark	275,147	Apr. 3	350	96	23	1367
Wagon platform-gear	C. H. Pangborn	284,225	Sept. 4	89	24	24	919
Wagon platform-gearing	F. Selle	270,254	Jan. 9	507	149	23	109
Wagon-rack	C. Cotton	289,234	Nov. 27	1799	498	25	847
Wagon-reach	A. H. and R. H. Beach	281,335	July 17	1245	345	24	232
Wagon-reach	M. Deeg	275,331	Apr. 3	588	156	23	1326
Wagon-reach coupling	R. Jacks	288,707	Nov. 20	1158	318	25	723
Wagon rub-iron	P. Dickman	273,041	Feb. 27	1849	517	23	785
Wagon running-gear	A. H. and R. H. Beach	282,486	Aug. 7	8	3	24	502
Wagon running-gear	R. C. Blackwell	290,170	Dec. 11	979	276	25	1068
Wagon running-gear	R. C. Blackwell	290,171	Dec. 11	980	277	25	1068
Wagon running-gear	D. Bullock and J. Jackson	282,490	Aug. 7	12	3, 4	24	503
Wagon running-gear	N. L. Higgins	282,637	Aug. 7	197	57	24	534
Wagon running-gear	L. D. Hurd	283,712	Aug. 21	1498	422, 423	24	785
Wagon running-gear	T. B. Mackey	271,487	Jan. 30	2071	597	23	414
Wagon running-gear	L. C. Mathison	283,628	Aug. 21	1392	389	24	764
Wagon running-gear	T. Poling	273,599	Mar. 6	463	125	23	913
Wagon-seat	D. Moehl, V. Pausch, and L. Moehl	283,803	Aug. 28	1616	455	24	817
Wagon-seat fastener	E. P. Sears	282,786	Aug. 7	373	105	24	565
Wagon-seat iron	L. N. Bewley and R. L. Mack	276,553	May 1	11	3	23	1038
Wagon-seat top	W. Hawkins	270,060	Jan. 2	275	80	23	56
Wagon-spring	P. J. Berdohl	286,377	Oct. 9	753	202	25	147
Wagon-spring	G. Dillig	272,219	Feb. 13	785	218	23	588
Wagon-spring	J. K. P. Pine	280,858	July 10	644	182	24	120
Wagon-stake	E. F. Chapman	280,132	June 26	1869	527	23	2466
Wagon-standard	P. Papineau	290,702	Dec. 25	1692	466	25	1305
Wagon-standard	O. Schimansky	286,335	Oct. 9	707	188	25	138
Wagons. Apparatus for loading and unloading	S. Van Patten	270,159	Jan. 2	391	113	23	79
Wagons. Detachable step for farm-	J. Hallett	272,543	Feb. 20	1305	337	23	666
Wagons. Lock for top boxes of	T. Fleming	272,832	Feb. 20	1570	442	23	731
Wagons. Spring-motor for road-	C. H. Jenne	287,939	Nov. 6	189	55, 56	25	540
Waist, drawers, and stocking supporter	M. Coddington	288,020	Nov. 6	295	83	25	557
Waiter or tray	G. D. Burton	285,386	Sept. 25	1506	423	24	1184
Wall-bracket	J. Nagele	290,789	Dec. 25	1802	498	25	1226
Wall-decoration	H. Fechteler	281,679	July 24	1663	458	24	311
Wall-paper	H. Lobdell	282,541	Aug. 7	78	.....	24	513
Wall-paper	H. Lobdell. (Reissue)	10,430	Dec. 25	2104	.....	25	1276
Wall-paper. Apparatus for drying	H. Hilbers	277,033	May 8	656	171	23	1744
Wall-paper hanger	B. G. Wright	286,669	Oct. 16	1120	302	25	219
Wall-paper-hanging machine	M. Heffernan	272,436	Feb. 20	1073	302	23	643
Wall-paper. Manufacture of	G. K. Birge	278,212	May 22	2081	573	23	2004
Wall-paper. Surfacing and ornamenting	T. Jefferson	273,364	Mar. 6	164	.....	23	862
Wall-papers. Sample-exhibitor for	J. E. Kidd	285,755	Sept. 25	1958	554	24	1265
Wall-pocket	G. W. Hessler	279,754	June 19	1410	394	23	2378
Walls and ceilings. Composition for the ornamentation of	M. Gibson	290,226	Dec. 18	1060	.....	25	1090
Walls and ceilings. Composition for the ornamentation of	M. Gibson	290,227	Dec. 18	1061	.....	25	1090
Walls and ceilings. Composition for the ornamentation of	M. Gibson	290,228	Dec. 18	1061	.....	25	1090
Walls. Composition for	J. R. Davis, C. M. Wyrick, and S. Parker.	288,694	Nov. 20	1142	.....	25	721
Walls of buildings. Composition for waterproofing and preserving	T. Hunt	282,062	July 31	2199	.....	24	407
Walls. Projecting corner-piece for plastered	G. W. Da Cunha	290,750	Dec. 25	1764	487	25	1219
Walls, roofs, &c. Covering for	C. McCarthy and J. P. Cumming	274,354	Mar. 20	1428	391	23	1085
Wantage or ullage rod	J. David	280,586	July 3	302	84	24	54
Wardrobe	M. A. Winter	287,399	Oct. 23	2047	557	25	390
Warming and ventilating and apparatus therefor	T. Rowan	283,149	Aug. 14	803	224	24	649
Warp-linking machine	C. Denn	288,032	Nov. 6	306	87	25	560
Warp-threads. Machine for drawing in	L. P. Sherman	282,124	July 31	2270	622, 623, 624	24	417
Warping and beaming machine	S. S. Hall and J. Walmsley	284,416	Sept. 4	316	87, 88	24	956
Warping-machine	R. L. Carr	276,667	May 1	156	40	23	1653
Warping-machine	W. S. Walcott	287,201	Oct. 23	1801	494	25	346
Warping-machine drop-wire	G. S. Follansbee	278,327	May 29	2255	613	23	2042
Wash-board	E. Butzbach	277,109	May 8	757	199	23	1761
Wash-board	R. W. Harper	287,926	Nov. 6	171	49	25	537
Wash-board protector	J. M. Gorham	285,254	Sept. 18	1343	378	24	1150
Wash-boiler	D. Bunker	273,809	Mar. 13	736	200	23	969
Wash-boiler	D. McDonald	273,866	Mar. 13	814	220	23	981
Wash-boiler	W. A. Wright	274,076	Mar. 13	1063	293	23	1094
Wash-stand	W. Blackwood, Jr	275,122	Apr. 3	321	89	23	1282
Wash-stand	N. O. Bond	285,001	Sept. 18	1044	292	24	1097
Wash-stand	E. F. Collins	273,710	Mar. 13	603	162	23	945

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Pages.
Wash-stand	W. O. N. Scott	270,701	Jan. 16	1088	312	23	298
Wash-stand	G. E. Waring, Jr	277,963	May 22	1769	492	23	1949
Wash-stand. Stationary	P. Connolly	283,699	Aug. 21	1478	416	24	781
Wash-tub support	J. Reid	271,516	Jan. 30	2107	606	23	420
Washer: *See* Clothes-washer. Composite washer. Dish-washer. Glass-washer. Glue-stock washer. Gold-washer. Leather washer. Ore-washer. Spring-washer. Steam-washer. Tumbler-washer.							
Washer	J. Ringen	271,275	Jan. 30	1786	.....	23	362
Washer	S. H. Shively	271,373	Jan. 30	1921	555	23	386
Washers. Machine for making	H. M. Armstrong	284,707	Sept. 11	676	190	24	1034
Washers. Machine for making	J. P. Mason	276,848	May 1	402	106, 107	23	1697
Washers. Mechanism for manufacturing	T. Gingras	270,301	Jan. 9	560	165	23	119
Washing compound	J. G., E. P., and D. W. Davis	278,409	May 29	2360	.....	23	2061
Washing. Hand-rubber for	I. T. Greene	285,256	Sept. 18	1345	379	24	1150
Washing-machine	J. F. Adams	270,357	Jan. 9	631	186	23	133
Washing-machine	W. W. Adams and D. R. Snelling	269,984	Jan. 2	189	55	23	39
Washing-machine	J. Baily	276,329	Apr. 24	1885	523	23	1572
Washing-machine	J. Baker	286,109	Oct. 2	405	111	25	75
Washing-machine	R. G. Baldwin	285,550	Sept. 25	1697	479	24	1219
Washing-machine	J. F. Beam and S. Brillinger	279,522	June 19	1145	317	23	2332
Washing-machine	C. Beidler	279,691	June 19	1343	373	23	2366
Washing-machine	C. Blust	286,378	Oct. 9	753	203	25	147
Washing-machine	C. Bradford	277,670	May 15	1424	384	23	1882
Washing-machine	E. W. Bush	289,615	Dec. 4	301	84	25	941
Washing-machine	J. L. Bushong	288,543	Nov. 13	949	260	25	681
Washing-machine	J. S. Caldwell	282,955	Aug. 14	569	161	24	609
Washing-machine	H. Calkins	273,346	Mar. 6	140	39	23	857
Washing-machine	S. C. Danforth	288,552	Nov. 13	960	264	25	683
Washing-machine	A. K. De Good	271,317	Jan. 30	1841	535	23	372
Washing-machine	C. Dodson	277,243	May 8	914	245	23	1789
Washing-machine	W. M. Doty	282,615	Aug. 7	169	51	24	530
Washing-machine	L. K. Dutton	274,473	Mar. 27	1585	435	23	1131
Washing-machine	J. B. Faucette	271,230	Jan. 30	1731	501	23	353
Washing-machine	G. D. Ferris	276,795	May 1	342	92	23	1686
Washing-machine	W. J. Forsyth	279,734	June 19	1390	388	23	2374
Washing-machine	G. P. Fuller	284,622	Sept. 11	566	160	24	1006
Washing-machine	L. S. Funk	283,094	Aug. 14	738	207	24	639
Washing-machine	W. C. Goode	282,514	Aug. 7	44	13	24	508
Washing-machine	J. O. Hardwick	274,190	Mar. 20	1212	334	23	1058
Washing-machine	R. S. Harrington	277,028	May 8	651	169	23	1743
Washing-machine	O. A. Harris	277,896	May 22	1692	461, 462	23	1937
Washing-machine	D. S. Hart	290,047	Dec. 11	840	238	25	1041
Washing-machine	T. Hawksworth	272,250	Feb. 13	824	230	23	595
Washing-machine	W. A. Hedger	273,359	Mar. 6	157	44	23	861
Washing-machine	J. F. Hill	281,996	July 24	2084	572	24	382
Washing-machine	W. Holben	289,416	Dec. 4	52	15	25	896
Washing machine	N. Holmes	285,411	Sept. 25	1535	433	24	1189
Washing-machine	A. L. Johnson	281,892	July 24	1950	533	24	359
Washing-machine	E. J. C. Kals	275,049	Apr. 3	218	59	23	1263
Washing-machine	E. L. Keys	274,946	Apr. 3	81	22	23	1239
Washing-machine	A. E. Kiel	290,064	Dec. 11	857	243	25	1044
Washing-machine	G. F. Knight	281,523	July 17	1481	406	24	273
Washing-machine	E. K. Lecrone	289,775	Dec. 4	500	138	25	973
Washing-machine	H. Lighty	278,247	May 22	2124	585	23	2011
Washing-machine	J. R. Martindale	272,666	Feb. 20	1365	383	23	694
Washing-machine	W. H. McFarlen	272,292	Feb. 13	873	244	23	604
Washing-machine	J. E. Mitchell	281,111	July 10	948	265	24	175
Washing-machine	H. F. Moeller	273,584	Mar. 6	447	120	23	911
Washing-machine	A. G. Morlan and W. N. McKeehen	279,877	June 19	1556	435	23	2404
Washing-machine	A. Mott	281,116	July 10	953	267	24	175
Washing-machine	L. N. Myers	281,119	July 10	957	267	24	176
Washing-machine	A. B. Paxon	270,976	Jan. 23	1429	412	23	294
Washing-machine	F. Pollmiller	274,140	Mar. 20	1151	317	23	1046
Washing-machine	J. W. Porter	276,072	Apr. 17	1545	425	23	1507
Washing-machine	A. Scharnweber	271,369	Jan. 30	1918	554, 555	23	386
Washing-machine	A. Scheff	273,611	Mar. 6	477	128	23	916
Washing-machine	F. Schwarz	272,780	Feb. 20	1506	424	23	719
Washing-machine	P. B. Sheldon	274,396	Mar. 20	1482	407	23	1105
Washing-machine	H. E. Smith	275,724	Apr. 10	1115	305	23	1424
Washing-machine	S. Steelman	290,134	Dec. 11	940	266	25	1061
Washing-machine	P. W. Strader and F. A. Wittich	273,776	Mar. 13	702	189	23	962
Washing-machine	J. A. Vandervoort	280,973	July 10	788	218	24	145
Washing-machine	C. N. White	271,385	Jan. 30	1934	560	23	389
Washing-machine	M. White	286,245	Oct. 9	570	157	25	114
Washing-machine	J. Wilson	274,072	Mar. 13	1059	292	23	1023
Washing-machine	S. Wright	276,126	Apr. 17	1618	446	23	1519
Washing-machine. Cylinder	H. Losse	279,960	June 26	1666	468	23	2429
Washing-machine reversing mechanism	J. W. Fernald	283,586	Aug. 21	1349	377	24	756
Washing-machines, churns, &c. Gearing for operating	G. H. Connor	271,795	Feb. 6	254	71	23	485
Washing woven fabrics. Apparatus for	J. and P. Hawthorn and J. P. Liddell.	274,766	Mar. 27	1957	544	23	1195
Wash-stand commode attachment	C. B. Basford	290,168	Dec. 11	977	276	25	1067
Waste-trap	S. E. Thomas	286,746	Oct. 16	1219	329	25	236
Watch	E. Kuhn	289,352	Nov. 27	1940	539	25	874
Watch	G. Thommen	289,728	Dec. 4	450	126	25	965
Watch	C. V. Woerd	271,965	Feb. 6	458	125	23	521

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Watch and time-piece movement. Full-plate	F. Fitt	281,758	July 24	1794	489, 490	24	331
Watch-balances. Machine for pointing, drilling, and tapping	C. V. Woerd	271,967	Feb. 6	461	196	23	521
Watch-balances. Mechanism for timing	E. J. Hall	288,233	Nov. 13	547	151	25	612
Watch-case	E. C. Fitch	277,865	May 15	1650	450	23	1923
Watch-case	E. C. Fitch	289,340	Nov. 27	1927	535	25	872
Watch-case	G. S. Ladd	278,151	May 22	2000	550	23	1990
Watch-case	T. Müeller	273,759	Mar. 13	672	180	23	957
Watch-case	T. Mueller	280,394	July 3	66	18	24	14
Watch-case	J. E. Searing	278,609	May 29	2597	709	23	2102
Watch-case	A. Von Loehr	283,170	Aug. 14	829	232	24	654
Watch-case	W. N. Weeden	284,926	Sept. 11	938	263	24	1071
Watch-case backs. Device for making	J. Lamont	284,440	Sept. 4	342	95	24	961
Watch-case center	J. C. Dueber	290,869	Dec. 25	1903	525	25	1243
Watch-case center	J. C. Dueber	290,870	Dec. 25	1904	525	25	1244
Watch-case columns. Making bases for rings of	S. Williams	284,526	Sept. 4	448	127	24	960
Watch-case. Dust-proof	W. H. Fitz Gerald and G. C. Smith	287,919	Nov. 6	163	47	25	536
Watch-case joint	R. J. Quigley	288,184	Nov. 6	492	134	25	591
Watch-case. Magic	E. A. Muckle	275,251	Apr. 3	467	130, 131	23	1306
Watch-case spring	N. J. Felix	290,761	Dec. 25	1774	490	25	1221
Watch-cases, &c. Ornamenting	T. Benfield	275,569	Apr. 10	918	248	23	1391
Watch-cases. Picture-holding cap for	H. Hirsh	276,403	Apr. 24	1973	546	23	1568
Watch-centers. Device for making and ornamenting	F. Ecaubert	270,644	Jan. 16	1010	291	23	214
Watch-chain charm	J. R. Handy	286,608	Oct. 16	1041	281	25	905
Watch-dial	W. H. Newby	290,791	Dec. 25	1804	499	25	1226
Watch. Dust-proof	A. Bitner	273,938	Mar. 13	901	246	23	995
Watch dust-ring	S. M. Morgan	287,152	Oct. 23	1734	475	25	335
Watch-escapement	G. F. Jacot	272,553	Feb. 20	1216	340	23	668
Watch-escapement. Detachable	F. Fitt	281,757	July 24	1792	499	24	331
Watch-fob	J. F. Harden	278,947	June 5	411	112	23	2193
Watch hair-spring protector	F. A. Curpen	273,034	Feb. 27	1842	515	23	784
Watch hair-spring stud	W. Oldroyd and G. H. Smith, Jr	273,138	Feb. 27	1971	554	23	807
Watch-holder	W. W. Blow	283,655	Aug. 28	1675	472	24	827
Watch-key	J. S. Birch	282,606	Aug. 7	159	48	24	528
Watch-key and cross-bar for watch-chains. Combined	W. F. Brennan	274,903	Apr. 3	15	4	23	1229
Watch-key and holding-tool	J. S. Birch	282,605	Aug. 7	158	48	24	528
Watch-key or holding-tool	G. L. Holt	278,550	May 29	2532	691	23	2091
Watch-key. Self-adjusting	C. A. Smith	279,196	June 12	732	201	23	2258
Watch makers and repairers. Tool for	O. W. Smith	274,837	Mar. 27	2037	567	23	1409
Watch-maker's tool	A. W. Bush	281,967	July 24	2056	563	24	377
Watch-movement box	A. D. Bingham	280,121	June 26	1855	523	23	2463
Watch-pendant	C. K. Colby	287,001	Oct. 23	1544	425	25	298
Watch pendant-ring	R. B. Richmond	289,141	Nov. 27	1688	469	25	826
Watch-pendants. Machine for making	C. Chabot	290,858	Dec. 25	1891	522	25	1241
Watch-plates. Fastening clicks to	T. Gill	275,762	Apr. 10	1172	321	23	1434
Watch-protector	W. A. Nichols	285,154	Sept. 18	1232	346	24	1129
Watch-regulator	C. R. Blake	285,959	Oct. 2	230	65	25	44
Watch-regulator	C. Ruttmann	289,359	Nov. 27	1948	541	25	875
Watch-regulator	D. Shive	284,079	Aug. 28	1970	549	24	879
Watch-regulator. Micrometer	C. E. Mason	288,066	Nov. 6	366	102	25	570
Watch. Self-winding	J. J. L. Brun	271,030	Jan. 23	1486	428	23	304
Watch show-rack	H. Schmidt	270,134	Jan. 2	360	105	23	73
Watch stem-setting attachment	F. Lenz	288,075	Nov. 6	353	98	25	568
Watch. Stem-winding	D. H. Church	280,719	July 3	455	130	24	81
Watch. Stem-winding	A. Savoye-Keller	274,613	Mar. 27	1782	495	23	1163
Watch. Stem-winding	J. Schaeppi	286,852	Oct. 16	1350	370	25	960
Watch. Stem-winding	N. R. Varney	269,974	Jan. 2	179	52	23	37
Watch stem winding and setting device	C. E. Mason	290,903	Dec. 25	1947	537	25	1251
Watch. Stop-	A. Le Coultre	284,444	Sept. 4	346	96	24	962
Watch. Stop-	W. Goy	278,127	May 22	1972	541	23	1985
Watch. Stop-	A. Henchoz-Arnold and F. Henchoz-Huguenin.	272,545	Feb. 20	1207	337	23	666
Watch. Straight-line	R. L. Peabody	281,295	July 17	1191	329	24	224
Watch-wheels. Machine for cutting	F. E. Jeanjaquet	275,494	Apr. 10	896	224	23	1375
Watch-winding indicator	R. Heunsch	289,533	Dec. 4	200	56, 57	25	921
Watches. Anti-magnetic shield for	C. K. Giles	289,642	Dec. 4	335	94	25	946
Watches. Device for fitting hair-springs to	C. H. Lucas	278,347	May 29	2287	625	23	2048
Watches. Guard for the pendant-bows of	C. H. Shaw	278,282	May 22	2171	598	23	2019
Watches. Safety center-pinion for	J. Schaeppi	286,851	Oct. 16	1349	369	25	960
Watches. Stem-winding mechanism for	D. D. Palmer	272,310	Feb. 13	892	250	23	607
Watchman's register	C. E. Sanford	285,932	Oct. 2	198	56	25	38
Water, aging and purifying vinous and spirituous liquors, and purifying the unfermented juices of fruits. Purifying	D. McCurdy	285,825	Oct. 2	54	17	25	11
Water alarm and regulator. Automatic	N. C. Butler	278,872	June 5	272	78	23	2169
Water-closet	W. Bishop	289,210	Nov. 27	1773	492	25	842
Water-closet	W. P. Buchan	287,225	Oct. 23	1834	502	25	352
Water-closet	B. C. Cross	270,934	Jan. 23	1369	395	23	286
Water-closet	C. N. Dutton	280,017	June 26	1736	486, 487	23	2441
Water-closet	C. N. Dutton	280,018	June 26	1740	488, 489	23	2442
Water-closet	O. B. Evans	284,544	Sept. 4	466	132	24	983
Water-closet	J. Foley	272,539	Feb. 20	1202	335	23	665
Water-closet	J. L. and C. P. Howard	284,016	Aug. 28	1896	531, 532	24	868
Water-closet	E. S. Hutchinson	280,180	June 26	1916	539	23	2474
Water-closet	T. Hyde	279,566	June 19	1197	331	23	2241
Water-closet	J. Kelly	270,080	Jan. 2	293	87	23	60
Water-closet	S. G. McFarland	287,558	Oct. 30	2248	610	25	438
Water-closet	J. C. McLaughlin	275,838	Apr. 17	1272	350	23	1458

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Water-closet	F. J. Merz	285,829	Oct. 2	58	18	25	12
Water-closet	G. Milne and W. H. Ganta. (Reissue.)	10,377	Aug. 28	2060	578	24	898
Water-closet	J. Muirhead	288,655	Nov. 20	1092	300	25	712
Water-closet	A. G. Myers	274,644	Mar. 27	1814	503	23	1170
Water-closet	C. F. Pike	270,113	Jan. 2	328	96, 97	23	66
Water-closet	C. F. Pike	270,315	Jan. 9	605	178	23	128
Water-closet	C. F. Pike	270,980	Jan. 23	1432	413	23	295
Water-closet	C. F. Pike	270,981	Jan. 23	1433	413	23	295
Water-closet	C. F. Pike	271,356	Jan. 30	1900	550	23	383
Water-closet	C. F. Pike	271,915	Feb. 6	403	109	23	511
Water-closet	C. F. Pike	271,916	Feb. 6	404	109	23	511
Water-closet	C. F. Pike	271,917	Feb. 6	405	110	23	512
Water-closet	J. P. Putnam	285,926	Oct. 2	191	54	25	37
Water-closet	J. P. Putnam	285,927	Oct. 2	192	54	25	37
Water-closet	J. P. Putnam	285,928	Oct. 2	193	55	25	37
Water-closet	W. Tweeddale	279,048	June 5	535	146	23	2214
Water-closet	W. H. Umpleby	280,417	July 3	95	25	24	19
Water-closet	L. Waefelaer	286,874	Oct. 16	1378	378	25	264
Water-closet	R. Walsh	283,172	Aug. 14	831	232	24	654
Water-closet	D. Wellington	271,752	Feb. 6	202	56	23	475
Water-closet	T. Wilson and C. N. Dutton	280,108	June 26	1844	520	23	2461
Water-closet and other traps. Cleansing	C. F. Pike	271,358	Jan. 30	1902	550	23	383
Water-closet and similar receptacles	J. P. Putnam	285,924	Oct. 2	186	54	25	36
Water-closet and similar receptacles	J. P. Putnam	285,925	Oct. 2	189	54	25	37
Water-closet and trap	J. Bennor	289,495	Dec. 4	156	43	25	913
Water-closet apparatus	K. E. Kritch	277,293	May 8	976	282	23	1800
Water-closet bowl	J. Cropper	270,754	Jan. 16	1154	330	23	240
Water-closet bowl	J. J. B. Frey	275,900	Apr. 17	1346	370, 371	23	1473
Water-closet bowls and their traps. Cleansing and disinfecting	C. F. Pike	271,357	Jan. 30	1901	550	23	383
Water-closet casing	C. F. Pike	270,333	Jan. 9	603	178	23	127
Water-closet cistern	J. Demarest	269,921	Jan. 2	114	34	23	24
Water-closet cistern	C. H. Moore	274,214	Mar. 20	1250	344	23	1064
Water-closet cistern	J. Reid	280,243	June 26	2000	562, 563	23	2489
Water-closet cistern	W. Scott	275,716	Apr. 10	1103	302	23	1423
Water-closet cistern attachment	J. Foley	282,876	Aug. 7	492	135	24	585
Water-closet pan	P. Connolly	273,668	Mar. 6	548	146	23	927
Water-closet pull-cup	J. Demarest	274,182	Mar. 20	1204	331	23	1056
Water-closet seats. Device for covering	M. Bonnefond	279,218	June 12	752	207, 208	23	2262
Water-closet shut-off	J. Farthing	270,211	Jan. 9	459	133	23	101
Water-closet splash-board	W. Welch, J. Coughlin, and J. J. Mahoney.	271,557	Jan. 30	2152	619	23	427
Water-closet stench-trap. Revolving	L. D. Craig	274,725	Mar. 27	1905	532	23	1186
Water-closet tank or cistern	H. and W. Sutcliffe	277,172	May 8	839	221	23	1775
Water-closet, urinal, and cesspool	J. B. Berlier	272,405	Feb. 20	1036	200	23	636
Water-closet valve	C. Birkery and H. S. Lord	272,196	Feb. 13	757	208	23	583
Water-closet valve	J. McGuire	274,628	Mar. 27	1795	499	23	1166
Water-closet valve	T. McHugh	280,648	July 3	372	104	24	66
Water-closet valve	P. White	285,191	Sept. 18	1275	358	24	1137
Water-closet valves. Float for	H. S. Lord and R. E. Day	276,436	Apr. 24	2011	557	23	1595
Water-closets. Automatic valve for	W. N. Decker	288,167	Nov. 6	459	129	25	588
Water-closets. Flushing	J. E. Boyle	285,875	Oct. 2	117	35	25	23
Water-closets. Sealing device for the operating mechanism of	C. F. Pike	270,112	Jan. 2	328	96	23	66
Water-closets, urinals, &c. Flushing-tank for	T. Henderson	283,105	Aug. 14	757	213	24	641
Water-closets. Water-waste preventive for flushing	C. Winn	280,275	June 26	2039	574	23	2495
Water-cooler	A. J. Schultze	274,663	Mar. 27	1838	511	23	1174
Water-cooler stand	R. B. Wardin and J. C. Moore	288,960	Nov. 20	1465	405	25	780
Water-crane	H. S. Cubberley and D. Mann	280,140	June 26	1879	529	23	2467
Water-elevator	A. J. English	288,783	Nov. 20	1249	343	25	740
Water-elevator	S. W. Hudson	278,796	June 5	162	47. 48	23	2150
Water-elevator	J. E. Morgan	278,582	May 29	2562	700	23	2097
Water-elevator	H. W. Norwood	272,463	Feb. 20	1104	312	23	648
Water-elevator	W. M. Scott	276,481	Apr. 24	2067	574	23	1604
Water for stock. Apparatus for supplying	A. G. Lyell	280,051	June 26	1781	499	23	2449
Water from wells. Wheel for drawing	W. A. Martin	274,011	Mar. 13	984	270	23	1010
Water-gage	W. A. Clark	278,223	May 22	2094	576	23	2006
Water gage	T. Galvin	279,144	June 12	681	186	23	2249
Water-gage	G. P. Harmon	289,255	Nov. 27	1820	503	25	851
Water-gage	F. H. Lincoln	278,345	May 29	2285	625	23	2047
Water-gage reflector	G. C. Whitesides	270,530	Jan. 9	865	252	23	179
Water, gas, or drain pipe	J. P. Culver	271,687	Feb. 6	123	34	23	461
Water-heater	H. A. Gantert	278,123	May 22	1969	540	23	1984
Water-heater	J. B. Webster	289,194	Nov. 27	1753	487	25	837
Water-heater and circulator-boiler	T. G. Morse	279,583	June 19	1218	338	23	2345
Water heater and feeder	J. Park	289,930	Dec. 11	695	195	23	1015
Water in houses. Distribution of	A. Dumas	277,691	May 15	1447	390	23	1686
Water-meter	J. B. Erwin	286,285	Oct. 9	643	171	25	127
Water-meter	L. H. Nash	280,221	June 26	1970	554	23	2484
Water-meter	L. H. Nash	280,222	June 26	1972	554, 555	23	2484
Water-meter	L. H. Nash	281,390	July 17	1312	363	24	245
Water-meter	D. B. Spooner	287,588	Oct. 30	2301	622, 623	25	447
Water-meter	W. Wells	273,204	Feb. 27	2046	576	23	620
Water-meter. Diaphragm	C. W. Stickney	285,175	Sept. 18	1258	353	24	1134
Water-meter. Piston	F. Walker	272,607	Feb. 20	1291	359, 360	23	680
Water-meter. Rotary	L. H. Nash	280,220	June 26	1968	554	23	2483

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Water-mill	I. R. Kulp	275,922	Apr. 17	1371	377	23	1477
Water-mill	C. F. C. Steinhagen	284,084	Aug. 28	1976	550	24	880
Water-motor	S. S. Richardson	289,560	Dec. 4	236	67	25	928
Water-motor	A. A. Walker and T. J. Backus	272,105	Feb. 13	655	178	23	565
Water-pipes. Device for preventing hammer in	R. W. Miller	273,379	Mar. 6	186	50	23	886
Water-pipes from rust. Protecting iron	F. Eaton	289,900	Dec. 11	663	185	25	1009
Water-proof cloth	T. J. Mayall	286,039	Oct. 2	390	.....	25	59
Water-proof fabric for making gossamer clothing	F. F. Terramorse	284,514	Sept. 4	434	.....	24	978
Water. Purifying	G. Seiler	275,277	Apr. 3	503	.....	23	1312
Water. Purifying	G. S. Strong	273,777	Mar. 13	704	190	23	988
Water purifying and softening apparatus	F. Pichler and K. Sedlacek	278,178	May 22	2033	559	23	1995
Water-service plug	P. Keilt	288,642	Nov. 20	1073	295	25	709
Water sprinkler or pipe. Automatic	G. A. Smith	285,697	Sept. 25	1874	534	24	1258
Water-supply and windmill regulator. Combined	M. A. Sayles and T. J. Brook	271,133	Jan. 23	1610	463	23	324
Water-supply. Combined railway and cattle	C. P. Sykes	289,040	Nov. 27	1570	433	25	804
Water-tank. Elevated	N. T. Whiting	288,901	Nov. 20	1393	384	25	766
Water-tank feed-pipe	C. Frankenfield	280,609	July 10	569	165	24	111
Water-tight fabrics. Preparing	L. Heyer	288,635	Nov. 20	1066	.....	25	708
Water-tight joint for tiling, vault-covers, areas, &c.	E. Bosworth	284,170	Sept. 4	14	4	24	907
Water-waste preventer	W. Bartholomew	288,758	Nov. 20	1226	335	25	735
Water-wheel	G. W. Converse	281,459	July 17	1403	385	24	259
Water-wheel	A. Figge	271,824	Feb. 6	299	79	23	492
Water-wheel	M. I. Martin	276,442	Apr. 24	2019	560	23	1596
Water-wheel	J. M. Nilson	289,021	Nov. 27	1544	426	25	800
Water-wheel	J. M. Powell	276,538	Apr. 24	2140	595	23	1617
Water-wheel	L. C. Ryan	287,330	Oct. 23	1962	536	25	375
Water-wheel	H. B. Stevens	286,500	Oct. 9	897	242	25	173
Water-wheel	L. B. Swartwout	289,169	Nov. 27	1718	479	25	831
Water-wheel bucket	C. D. Smith	272,592	Feb. 20	1273	355	23	677
Water-wheel. Turbine	H. R. Austin	287,403	Oct. 30	2059	559	25	399
Water-wheel. Turbine	C. M. Baker	277,535	May 15	1965	539	23	1258
Water-wheel. Turbine	C. Barnhart	279,519	June 19	1142	316	23	2331
Water-wheel. Turbine	M. D. Grow	272,428	Feb. 20	1065	300	23	641
Water-wheel. Turbine	B. Keiser	272,705	Feb. 20	1413	396	23	702
Water-wheel. Turbine	J. Raab	279,981	June 26	1688	474	23	2433
Water-proof compound of mangrove rosin, or cativo, and caoutchouc.	C. C. Parsons	278,591	May 29	2571	.....	23	2098
Water-proof fabrics. Manufacture of oiled	N. S. York and A. W. Lane	270,717	Jan. 16	1106	316	23	231
Waterproofed building material. Treating	R. M. Caffall	275,327	Apr. 3	567	.....	23	1322
Waterproofing compound	C. L. and J. Weimann	275,738	Apr. 10	1130	.....	23	1427
Waterproofing fabrics	W. H. Horner and F. Hyde	273,233	Feb. 27	2089	.....	23	827
Waterproofing fabrics	W. McNeil	272,569	Feb. 20	1250	.....	23	673
Waterproofing leather, &c. Process of and composition for	H. Trenk	274,059	Mar. 13	1040	.....	23	1020
Water-works. Storage-basin for	H. W. Wilson	289,877	Dec. 11	633	176	25	1004
Watering device. Stock-	W. E. Young	282,146	July 31	2296	630	24	421
Watering stock. Tank for	F. Funk	290,675	Dec. 25	1653	456	25	1198
Wave-power	W. E. Jory	281,370	July 17	1289	357	24	240
Wave-power apparatus	T. Mayes	273,117	Feb. 27	1942	545	23	801
Wax compound	P. C. Ghaler	274,484	Mar. 27	1623	.....	23	1135
Weaner. Calf-	W. F. Geissler	278,532	May 29	2512	685	23	2088
Weaner. Calf-	G. A. Marvin	280,642	July 3	367	102	24	65
Weather-board gage	J. M. Keith and S. R. Bolton	283,404	Aug. 21	1133	320	24	717
Weather-board gage	J. C. McEwen	280,494	July 3	198	52	24	36
Weather-boarding gage	J. Miller	290,457	Dec. 18	1366	377	25	1142
Weather-boarding gage and clamp	S. A. Kennedy	285,137	Sept. 18	1913	341	24	1125
Weather-boarding gage, clamp, and saw-guide	T. M. Dedman	277,890	May 22	1686	460	23	1935
Weather-strip	M. L. Bramhall	284,602	Sept. 11	542	153, 154	24	1002
Weather-strip	D. L. Cady	283,160	July 31	2311	634	24	494
Weather-strip	H. Carter	284,539	Sept. 4	462	131	24	983
Weather-strip	P. Cool	287,245	Oct. 23	1800	509	25	356
Weather-strip	I. Coppock	272,213	Feb. 13	777	215	23	586
Weather-strip	J. C. Fiester	285,024	Sept. 18	1074	300	24	1102
Weather-strip	T. B. McCurdy	282,208	July 31	2377	654	24	434
Weather-strip	C. M. Packer	282,216	July 31	2384	657	24	436
Weather-strip	L. Parmele	279,425	June 12	1023	284	23	2305
Weather-strip	T. H. Pruner	279,501	June 12	1114	307	23	2319
Weather-strip	J. Shoemaker	281,802	July 24	1854	506	24	341
Weather-strip	T. Urie	277,858	May 15	1640	447	23	1922
Weather-strip	J. Walker	274,536	Mar. 27	1689	469	23	1147
Weather-strip	C. F. Whipple	274,158	Mar. 20	1175	324	23	1051
Weather-strip. Double-acting outward-pulling	E. Conklin	277,887	May 22	1681	458	23	1934
Weather-strip for door-sills	J. G. O'Kelly	282,109	July 31	2237	616	24	413
Weaving cane. Crossing-needle for	C. Vieman	272,993	Feb. 27	1786	500	23	774
Weaving double-pile fabrics and loom for weaving the same.	S. C. Lister and J. Reixach	270,321	Jan. 9	587	172, 173	23	124
Weaving imitation seersucker fabric	J. C. Potts	284,145	Aug. 28	2059	571	24	893
Webermeter	T. A. Edison	281,358	July 17	1269	352	24	237
Weed-cutter	W. F. and H. C. Reeves	287,163	Oct. 23	1748	479	25	337
Weed-puller	J. D. Higinbotham and G. F. Ball	287,677	Oct. 30	2415	651	25	469
Weigh-box	H. Laughlin and E. Baumgardner	284,864	Sept. 11	866	243	24	1058
Weigher and measure. Grain	J. E. Kimble	290,066	Dec. 11	859	244	25	1045
Weigher and register. Automatic grain	W. B. Patterson	285,921	Oct. 2	183	52, 53	25	35
Weigher and tally. Grain	G. Keith, Jr	271,079	Jan. 23	1552	447	23	315
Weighing and bagging machine. Grain	J. B. Pelton	283,018	Aug. 14	653	184	24	623
Weighing and dumping machine	J. Morrow	283,641	Aug. 21	1405	393, 394	24	767
Weighing apparatus	G. D. Hibbs	273,528	Mar. 6	367	98	23	897
Weighing apparatus. Automatic grain	D. D. Kuhlman	286,934	Oct. 16	1451	398, 399	25	276
Weighing apparatus. Automatic grain	D. D. Kuhlman	288,820	Nov. 20	1296	355	25	748
Weighing apparatus. Grain	W. H. Ernst	278,114	May 22	1949	534	23	1981
Weighing-machine and dynamometer	A. H. Emery	278,913	June 5	345	95	23	2182

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Weighing-machine. Automatic	C. Reuther	282,226	July 31	2396	659, 660	24	438
Weighing machine. Automatic grain-	J. Stevens	278,193	May 22	2050	563, 564, 565	23	1999
Weighing machine. Automatic grain-	J. Stevens	278,194	May 22	2055	565, 566, 567	23	1999
Weighing machinery	A. H. Emery	278,906	June 5	323	91, 92, 93	23	2178
Weight. Machinery or apparatus for ascertaining and indicating	T. H. Ward	270,864	Jan. 16	1274	368, 369	23	264
Weight-motor	D. H. Brenner	277,875	May 22	1669	455	23	1933
Weight-power	S. Raymond	286,962	Oct. 16	1489	409	25	283
Weirs and sluice-gates. Construction of river and other	F. Wiswall and W. H. Collier	281,599	July 17	1574	430	24	287
Welding apparatus	A. Grieves	285,124	Sept. 18	1193	334	24	1122
Well	B. F. Stephens	272,596	Feb. 20	1276	356	23	678
Well-boring machine	W. J. Sherman	277,794	May 15	1565	426, 427	23	1909
Well-digging apparatus	B. F. Stephens	274,988	Apr. 3	132	37	23	1248
Well-digging machine	J. C. and S. Chambers	271,600	Feb. 6	22	5	23	444
Well-drilling apparatus	J. Cain	285,010	Sept. 18	1054	295	24	1099
Well-drilling apparatus	E. Catlin	288,975	Nov. 27	1488	412	25	791
Well-drilling machine	L. A. Hardison	274,120	Mar. 20	1130	311	23	1043
Well-drilling machine	T. J. Hathaway	289,257	Nov. 27	1822	503, 504	25	851
Well-drilling machine	H. and J. Kelly	285,274	Sept. 18	1366	385	24	1155
Well. Drive-	C. W. Schreiber	273,166	Feb. 27	2003	563	23	812
Well. Driven	J. Shaw	278,751	June 5	95	27	23	2140
Well point. Drive-	O. B. Olmsted	287,708	Oct. 30	2459	662	25	477
Well point. Drive-	R. A. Ryrie	279,600	June 19	1235	342	23	2348
Well-tubing clamp. Oil-	D. L. Lewis	277,142	May 8	802	211	23	1770
Wells and apparatus therefor. Formation of deep	J. B. Edson	288,557	Nov. 13	967	266	25	684
Wells. Apparatus for cleaning oil-	W. E. Karns	282,531	Aug. 7	68	20	24	512
Wells having water-bearing strata of different hydrostatic levels. Apparatus for raising water from	J. B. Yeagley	285,774	Sept. 25	1986	562	24	1269
Wells in quicksand, &c. Formation of deep	J. B. Edson	277,695	May 15	1451	391	23	1887
Wells or cisterns. Device for closing bricks in the walls of	W. H. Small	290,277	Dec. 18	1123	316	25	1100
Wells. Process of and apparatus for the formation of deep	S. W. Douglass	290,546	Dec. 18	1486	411	25	1163
Wells. Side-leak or sand-wall washer for oil-	J. M. Reardon	277,607	May 15	1351	364	23	1869
Wells. Tube-clamp for oil-	C. C. Utter	273,195	Feb. 27	2034	572	23	818
Wells. Tubing, packing, and operating oil-	T. L. Crowley	290,139	June 26	1875	528	23	2467
Welt-cutter	A. Hinchcliffe	281,365	July 17	1283	356	24	239
Welted or hemmed goods of knit fabrics. Manufacture of	S. Borton	271,190	Jan. 23	1686	487	23	336
Wetting gummed papers. Device for	J. B. Sword	272,350	Feb. 13	943	262	23	615
Wheat-cleaner	D. P. Motley	281,115	July 10	952	266	24	175
Wheat-drill	A. L. Reese	274,380	Mar. 20	1458	400	23	1101
Wheat-grader and cockle-separator	J. N. Merchant	269,872	Jan. 2	58	18	23	14
Wheat-huller	T. T. Kneeland	277,906	May 22	1702	465	23	1939
Wheat hulling and cleaning machine	S. K. Todd	276,200	Apr. 24	1709	472, 473	23	1543
Wheat-scouring apparatus	F. X. Stiefenhofer	270,145	Jan. 2	374	109	23	76
Wheel: *See* Abrasive wheel. Advertising-wheel. Balance-wheel. Buffing-wheel. Car-wheel. Cart-wheel. Caster-wheel. Creasing-wheel. Drive-wheel. Emery-wheel. Expansible wheel. Fan-wheel. Fifth-wheel. Fly-wheel. Gear-wheel. Grinding and polishing wheel. Harvester-wheel. Harvester traction-wheel. Iron wheel. Leather-creasing wheel. Logging-wheel. Paddle-wheel. Paper wheel. Plow-wheel. Plow guide-wheel. Polishing-wheel. Polishing or buffing wheel. Propelling-wheel. Pulley-wheel. Scouring, scratching, and buffing wheel. Sheave-wheel. Traction-wheel. Turbine wheel. Vehicle-wheel. Velocipede-wheel. Water-wheel. Wheelbarrow-wheel. Wind-wheel.							
Wheel	A. M. Allen	278,071	May 22	1894	519	23	1972
Wheel	R. Brown	287,801	Nov. 6	15	4	25	509
Wheel	J. Frenier	290,224	Dec. 18	1058	297	25	1090
Wheel	E. E. Josef	277,904	May 22	1700	464	23	1938
Wheel	J. R. Little	273,746	Mar. 13	652	173, 174	23	954
Wheel	A. E. Miltimore and A. J. Wolff	280,063	June 26	1792	502, 503, 504	23	2451
Wheel	F. X. Myer, Jr.	270,461	Jan. 9	771	226	23	160
Wheel	F. W. Randall	270,481	Jan. 9	792	231	23	164
Wheel and pulley	W. J. Innis	283,397	Aug. 21	1124	318	24	715
Wheel motor. Helical flanged-	L. Patterson	289,931	Dec. 11	696	195	25	1015
Wheel or pulley	A. R. Byrkett	289,335	Nov. 27	1923	534	25	871
Wheel-runner	H. Holland	272,691	Feb. 20	1395	391	23	699

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wheels for vehicles, &c. Making	W. Newlin and S. Whitehall	279,584	June 19	1218	338	23	2345
Wheels. Making metallic	C. O. Wilder	286,754	Oct. 16	1226	331	25	337
Wheels. Making steel	H. Owaley	285,763	Sept. 25	1964	556	24	1966
Wheels on their shafts. Mounting	H. C. Hopkins	282,392	July 31	2520	691	24	459
Wheels to axles. Device for attaching	A. B. Carter	285,341	Sept. 18	1439	407	24	1167
Wheelbarrow	W. Clark	273,225	Feb. 27	2077	583	23	825
Wheelbarrow	D. B. S. Cockburn	288,019	Nov. 6	294	83	25	557
Wheelbarrow	W. Seabrook	279,604	June 19	1239	343	23	2348
Wheelbarrow	A. J. Upham	285,323	Sept. 18	1421	401	24	1164
Wheelbarrow	W. A. Whitney	290,156	Dec. 11	964	272	25	1065
Wheelbarrow-wheel	L. H. Goodwin	281,965	July 24	1929	527	24	355
Wheelbarrows for transportation. Packing	F. A. Jacobs	274,781	Mar. 27	1976	550	23	1198
Wheelwright's tool	A. Wright	275,742	Apr. 10	1133	310	23	1498
Whiffletree	S. R. Ames	283,454	Aug. 21	1194	335	24	728
Whiffletree	G. H. Gaston and C. H. Grant	285,121	Sept. 18	1188	333	24	1122
Whiffletree	J. Grems	287,376	Oct. 23	2018	549	25	365
Whiffletree	M. D. L. and J. M. Hartley	285,032	Sept. 18	1087	303	24	1104
Whiffletree	C. W. Hersey	281,065	July 10	895	249	24	165
Whiffletree	F. Littlefield	273,372	Mar. 6	177	48	23	864
Whiffletree	E. Palmer	283,274	Aug. 14	964	268	24	679
Whiffletree	E. H. Wade	283,541	Aug. 21	1291	361	24	745
Whiffletree and holdback attachment	G. Hubert	282,325	July 31	2523	692	24	460
Whiffletree attachment	J. Kurtz	290,890	Dec. 25	1931	533	25	1248
Whiffletree attachment	L. Stevenson and W. B. Jacobs	278,288	May 22	2182	600	23	2021
Whiffletree-clip	R. S. Clark	288,922	Nov. 20	1417	390	25	771
Whiffletree-clip	R. E. Harper	288,796	Nov. 20	1270	348	25	743
Whiffletree-hook	D. S. Blue	271,777	Feb. 6	232	65	23	481
Whiffletree-hook	J. J. Green	275,196	Apr. 3	404	111	23	1296
Whiffletree-hook	H. and A. T. Hatch	271,632	Feb. 6	62	17	23	451
Whiffletree-hook	J. C. Horner	272,255	Feb. 13	829	232	23	597
Whiffletree-iron	E. W. McLendon	271,093	Jan. 23	1567	451	23	317
Whiffletree-iron	J. W. Trease	288,681	Nov. 20	1127	310	25	718
Whiffletree-plate	W. M. Dawson and R. A. Simpson	281,032	July 10	857	238	24	159
Whiffletree-plate	C. H. Kerns	283,615	Aug. 21	1378	385	24	762
Whip	J. P. Arnold	284,351	Sept. 4	234	66	24	944
Whip	H. J. Bush	288,305	Nov. 13	638	175	25	627
Whip	T. M. Griswold	273,678	Mar. 6	565	150	23	930
Whip	E. K. Warren	286,748	Oct. 16	1220	329	25	236
Whip and rein holder. Combined	F. C. Ayer	287,493	Oct. 30	2170	589	25	421
Whip and rein holder. Combined	N. Robertson and H. C. Doll	285,161	Sept. 18	1239	340	24	1130
Whip-connection	W. J. Morand	271,504	Jan. 30	2092	602	23	417
Whip-coupling	E. Phelps	277,778	May 15	1549	421	23	1905
Whip-holder	S. Baker	284,995	Sept. 18	1033	289	24	1095
Whip-holder	J. J. Rose	289,310	Nov. 27	1886	525	25	864
Whip-lash	W. C. Schriek	273,319	Mar. 6	99	29	23	851
Whip-loop fastening	H. Mullen and J. Noble, Jr	274,641	Mar. 27	1811	503	23	1169
Whip-rack	J. J. Read	290,268	Dec. 18	1113	313	25	1099
Whip-snaps. Machine for twisting	C. E. Williams	277,967	May 22	1773	483, 484	23	1950
Whip-socket	F. Baumgartner	277,197	May 8	864	230	23	1760
Whip-socket	C. S. Bugbee	290,207	Dec. 18	1032	290	25	1065
Whip-socket	S. J. Clark	279,708	June 19	1361	379	23	2369
Whip-socket	P. Jasnowski	274,199	Mar. 20	1222	336	23	1060
Whip-socket	B. W. Morris and W. H. Rodgers	288,721	Nov. 20	1184	323	25	727
Whip-socket	E. W. Scott	272,907	Feb. 27	1692	474	23	758
Whip-socket	E. W. Scott	287,872	Nov. 6	102	30	25	525
Whip-socket	A. Searls	279,282	June 12	897	229	23	2275
Whip-socket	A. Searls	288,671	Nov. 20	1112	305	25	716
Whip-socket	J. Thornton	274,850	Mar. 27	2051	579	23	1211
Whip-socket	J. Thornton	285,707	Sept. 25	1884	537	24	1254
Whip-socket and rein-holder. Combined	J. L. Thomson	274,675	Mar. 27	1852	516	23	1176
Whip-socket fastener	A. Searls	283,520	Aug. 21	1270	356	24	741
Whip-socket fastener	A. Searls	287,874	Nov. 6	103	31	25	525
Whip-socket locking device	A. H. Lau	290,073	Dec. 11	868	247	25	1047
Whips. Machine for making	D. Doty	270,029	Jan. 2	238	69	23	49
Whips. Machine for rolling buttons on	W. J. Morand	271,503	Jan. 30	2091	601	23	417
Whips. Manufacture of	J. C. Schmidt	281,305	July 17	1206	333	24	227
Whisk-broom holder	C. E. Kidder	272,446	Feb. 20	1062	305	23	644
Whisk-broom holder	R. Skoog	270,137	Jan. 2	386	106	23	75
Whisk-brooms. Wall-case for supporting	H. Pattberg	281,393	July 17	1316	364	24	245
Whisky. Making	M. J. Allen and W. E. Bradley	287,213	Oct. 23	1818	498	25	349
Whistle. Steam-	J. E. Gause	286,490	Oct. 9	806	218	25	156
Whistle. Steam-	F. McCabe	285,639	Sept. 25	1807	514	24	1240
Whistles automatically. Device for blowing locomotive-	E. A. Leland	278,440	May 29	2401	654	23	2068
Wick adjuster and trimmer for lamps	J. B. Deeds	283,217	Aug. 14	889	248	24	696
Wick cleaner. Lamp-	C. E. Baldwin	278,075	May 22	1899	590	23	1972
Wick. Lamp	L. E. Clow	285,971	Oct. 2	241	68	25	46
Wick. Lamp-	I. Lynd	270,447	Jan. 9	754	221	23	156
Wick-raiser	J. B. Deeds and W. Mack	276,525	Apr. 24	2124	591	23	1614
Wick-trimmer	A. J. Phipps	280,510	July 3	214	56	24	38
Wick-trimmer	W. C. Seaton	272,338	Feb. 13	931	259	23	613
Wick-trimmer	W. C. Seaton	283,521	Aug. 21	1271	356	24	741
Wick trimmer. Lamp-	P. G. Beckley	271,022	Jan. 23	1480	496	23	303
Wick trimmer. Lamp-	J. Holmes	278,965	June 5	431	118	23	2197
Wick-trimming shears	R. F. Holley	271,982	Feb. 6	489	132	23	525
Wick-tube for oil-burners	F. H. Kendall and F. W. Ladd	283,255	Aug. 14	942	263	24	675
Wicket	M. L. Harrison and F. Underbill	270,309	Jan. 9	570	167, 168	23	121
Wig-block holder	H. P. Leonard	282,537	Aug. 7	75	22	24	513
Wind-engine	P. T. Coffield	273,296	Feb. 27	2077	584	23	895
Wind-engine	G. E. Fletcher	275,032	Apr. 3	902	54	23	1260
Wind-engine	J. L. Walker	273,920	Mar. 13	877	236	23	992
Wind-engine	E. W. Wildey and W. L. Simons	272,370	Feb. 13	970	271	23	620

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wind-locomotive	O. W. Burnell	271,784	Feb. 6	242	68	23	483
Wind-motor	C. M. Conradson	283,079	Aug. 14	731	202	24	635
Wind-motor	A. Dumont	274,289	Mar. 20	1244	369 370	23	1080
Wind-wheel	J. M. Boyd	285,960	Oct. 2	230	65	25	44
Wind-wheel	J. C. Butler	272,595	Feb. 20	1184	331	23	662
Wind-wheel	A., A. J., and C. Inglis	270,591	Jan. 16	945	273	23	202
Wind-wheel	R. G. Kirkwood	278,561	May 29	2542	693	23	2093
Wind-wheel	A. Sherwood	272,489	Feb. 20	1143	321	23	655
Winding cops, quills, bobbins, &c. Machine for	E. Barton	272,623	Feb. 20	1312	366	23	685
Winding-on mechanism for spinning-mules	W. McConnell	286,460	Oct. 9	849	230 231	25	165
Winding silk, thread, &c. Machine for	T. Wrigley	286,363	Oct. 9	739	198	25	144
Winding thread upon spools. Machine for	C. F. Bosworth	270,376	Jan. 9	660	194 195	23	138
Winding yarn or thread. Machine for	J. and T. A. Boyd	276,758	May 1	300	76	23	1677
Winding yarn, thread, &c. Machine for	E. Ashworth	285,203	Sept. 18	1285	361 362	24	1139
Windlass	C. A. Bucklin and J. D. Knowlton	276,956	May 1	555	144 145	23	1721
Windlass	C. J. Hall	282,075	July 31	2191	602	24	406
Windlass	F. A. Moore and A. J. Heaberlin	281,910	July 24	1987	544	24	365
Windlass	F. A. Moore and A. J. Heaberlin	286,547	Oct. 9	956	257	25	184
Windlass. Marine steam	J. F. Pankhurst	287,050	Oct. 23	1608	443	25	310
Windlass. Power	H. Winter and F. S. Manton	276,968	May 1	589	155	23	1727
Windmill	W. P. Badger	285,948	Oct. 2	218	61	25	42
Windmill	W. Barnes	275,457	Apr. 10	778	208	23	1367
Windmill	C. D. Bowlus	274,261	Mar. 20	1308	360	23	1075
Windmill	M. A. Button	275,137	Apr. 3	339	93	23	1284
Windmill	B. Chamberlain	284,945	Sept. 11	962	270	24	1075
Windmill	C. M. Ford	272,226	Feb. 13	797	222	23	590
Windmill	S. Haney	270,059	Jan. 2	274	80	23	56
Windmill	W. H. and C. A. Holcombe	271,635	Feb. 6	64	18	23	451
Windmill	L. M. Hoskins	274,329	Mar. 20	1398	383	23	1090
Windmill	A. O. Koontz	272,064	Feb. 13	599	162	23	556
Windmill	S. E. Limpus	271,643	Feb. 6	71	20	23	453
Windmill	J. M. Mack	272,566	Feb. 20	1246	347 348	23	673
Windmill	J. M. Murphy	279,178	June 12	714	195	23	2255
Windmill	I. W. Russell	270,487	Jan. 9	798	233	23	166
Windmill	C. F. W. Schramm	282,122	July 31	2266	621	24	416
Windmill	W. C. Sickles	279,194	June 12	731	200	23	2258
Windmill	H. B. Sprague	273,182	Feb. 27	2020	568	23	816
Windmill	G. L. Stearns	273,183	Feb. 27	2021	568	23	816
Windmill	J. E. Toombs	273,642	Mar. 6	513	138	23	922
Windmill	W. N. Trumble	276,939	May 1	532	138	23	1717
Windmill	W. J. Vaughn	278,756	June 5	100	28	23	2140
Windmill	L. Wilcox	278,842	June 5	231	68	23	2162
Windmill	W. E. Williams	272,821	Feb. 20	1558	438	23	729
Windmill	F. Witherspoon	279,066	June 5	557	153	23	2218
Windmill and derrick	I. W. Lamb	276,831	May 1	385	102 103	23	1694
Windmill attachment	A. G. Carman	275,140	Apr. 3	342	94	23	1285
Windmill for boats	P. J. Munson and G. H. Strand	279,973	June 26	1680	471	23	2431
Windmill. Geared	W. H. and C. A. Holcombe	283,109	Aug. 14	760	214	24	642
Windmill. Horizontal	A. Zwiebel	274,541	Mar. 27	1693	471	23	1147
Windmill-motor	H. S. Wilson	273,212	Feb. 27	2063	580	23	823
Windmill power-transmitter	W. H. Aldrich and H. M. Lourie	272,014	Feb. 13	537	145	23	545
Windmill rotary	W. H. Ryther	278,748	June 5	89	26	23	2139
Windmill. Self-regulating	G. K. Glenn	275,036	Apr. 3	205	55	23	1261
Windmill-tower	J. S. Adams. (Reissue)	10,292	Mar. 6	587	156	23	935
Windmills, &c. Attachment to	D. Austin	272,618	Feb. 20	1307	364	23	683
Windmills. Mechanical power for	D. Austin	273,796	Mar. 13	722	196	23	966
Window	M. L. Edmunds	279,364	June 12	951	264	23	2293
Window and door screen	A. L. Benedict	290,312	Dec. 18	1169	327	25	1108
Window-cleaner	M. Hurley	274,334	Mar. 20	1404	385	23	1091
Window-cleaner	J. Kirkham	275,921	Apr. 17	1370	377	23	1476
Window-cleaning guard	M. R. Jaboeuf	290,431	Dec. 18	1333	369	25	1137
Window-bead fastener	C. H. Myers	280,756	July 3	514	145	24	91
Window drip-pan	W. S. Taylor	289,174	Nov. 27	1723	480	25	832
Window-frame	W. Boisen	276,219	Apr. 24	1731	479	23	1547
Window-frame	W. W. Boyington	286,584	Oct. 16	1009	272 273	25	900
Window-guard	B. Schmitt	276,092	Apr. 17	1558	429	23	1509
Window. Incidence	F. Bredehorst	276,761	May 1	304	78	23	1678
Window-jack	G. W. Dearborn	280,803	July 10	584	163	24	110
Window-platform and fire-escape. Combined	T. Jarvis	279,167	June 12	703	191	23	2253
Window. Removable bay	C. A. Nordyke	280,946	July 10	758	210	24	139
Window-sash ventilator	E. W. Chadwick	289,387	Dec. 4	18	6	25	890
Window-screen	W. G. Anderson	284,588	Sept. 11	526	149	24	999
Window-screen	W. E. Brock	290,173	Dec. 11	982	277	25	1068
Window-screen	J. W. Carman	277,111	May 8	759	200	23	1762
Window-screen	V. R. Chamberlin	288,160	Nov. 6	451	126	25	586
Window-screen	V. R. Chamberlin	288,921	Nov. 20	1416	399	25	771
Window-screen	P. W. Fry	278,006	May 22	1626	498	23	1959
Window-screen	H. F. Geist	290,568	Dec. 18	1520	418	25	1160
Window-screen	J. N. Gibney	289,526	Dec. 4	193	54	25	950
Window-screen	S. Glass and G. H. Noble	284,410	Sept. 4	308	86	24	955
Window-screen	E. Hunter	288,943	Nov. 20	1445	398	25	776
Window-screen	F. Isard and W. S. Leiter	272,884	Feb. 27	1668	466	23	754
Window-screen	A. W. Lovejoy	272,068	Feb. 13	602	163	23	556
Window-screen	J. H. McVay	272,145	Feb. 13	699	191	23	573
Window-screen	J. M. Montgomery, Jr	272,302	Feb. 13	883	247	23	606
Window-screen	J. D. Palmer	279,862	June 19	1561	437	23	2405

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Window-screen	R. J. Parrett	270,469	Jan. 9	781	228	23	162
Window-screen	J. W. Thompson	290,496	Dec. 18	1418	392	25	1152
Window-screen	J. Watson	288,282	Nov. 13	611	168	25	622
Window-screen. Adjustable	G. W. and W. H. Gordon	282,716	Aug. 7	301	85	24	552
Window-screen frame	E. J. Brent	281,964	July 24	2053	562, 563	24	376
Window-screen. Rolling	A. Brown	285,006	Sept. 18	1048	294	24	1098
Window-screens. Making	W. G. Anderson	279,851	June 19	1524	426	23	2386
Window-shade	A. Barricklo	276,152	Apr. 24	1653	456	23	1534
Window-shade	W. J. Cox	282,277	July 31	2455	676	24	449
Window-shade	W. T. Estberg	288,043	Nov. 6	320	90	25	562
Window-shade	P. Michel	290,698	Dec. 25	1686	464	25	1304
Window-shade	W. H. Paulding	281,128	July 10	975	272	24	179
Window shade and screen	E. Green	289,408	Dec. 4	42	12	25	894
Window-shade pull	C. W. Clark	273,028	Feb. 27	1834	513	23	782
Window-shade roller	W. F. Edwards	271,438	Jan. 30	2002	578	23	402
Window-shade roller	B. F. Fox	280,808	July 10	588	164	24	110
Window-shade weight and pull. Combined	J. H. Russ	280,768	July 3	533	149	24	94
Window-shades. Frame for stretching and drying	P. Richter	278,184	May 22	2042	561	23	1997
Window-shades, &c. Manufacture of	J. Hartnagel	274,594	Mar. 27	1758	.....	23	1159
Window-shades to rods which are used with their free ends. Attachment of	C. Flos	286,191	Oct. 9	506	139	25	104
Window-slat adjuster	G. Hayes	279,155	June 12	693	190	23	2252
Window-slat adjuster	G. Hayes	279,156	June 12	694	190	23	2252
Window-ventilator	J. Badger	287,791	Nov. 6	4	2	25	507
Window-ventilator	J. G. Bronson	270,733	Jan. 16	1125	322	23	235
Window-ventilator	C. F. Müller	287,848	Nov. 6	69	21	25	519
Window-ventilator	J. G. Reinl	287,055	Oct. 23	1616	445	25	312
Window-washing seat	C. L. Watt	290,506	Dec. 18	1436	397	25	1155
Windows. Manufacture of colored-glass	J. La Farge	274,948	Apr. 3	83	23	23	1239
Wine and cider press	J. Treber	271,161	Jan. 23	1646	473	23	331
Wine and cider press	H. Tyack	290,653	Dec. 18	1620	445, 446	25	1186
Wine and other liquids. Apparatus for treating	C. G. Frash	285,607	Sept. 25	1769	501	24	1233
Wine. Apparatus for maturing sherry	M. T. De Abreu	277,554	May 15	1291	346, 347	23	1859
Winker-straps. Connecting device for	H. Latshaw	270,958	Jan. 23	1407	405	23	291
Wipe-joint. Imitation	N. Spofford	284,917	Sept. 11	929	261	24	1069
Wire and cord stretcher	J. Sedgwick	277,068	May 8	707	184	23	1753
Wire-annealing pot	H. Roberts	275,522	Apr. 10	864	233	23	1382
Wire. Apparatus for assorting straight and crooked	J. A. Morton	290,700	Dec. 25	1689	465	25	1205
Wire. Apparatus for elevating and holding spools of	L. Williams and E. M. Bates	290,300	Dec. 18	1149	322	25	1104
Wire. Barbed	C. S. Locke	277,423	May 8	1123	302	23	1695
Wire. Barbed	W. A. Root	281,300	July 17	1200	332	24	226
Wire. Barbed	A. J. Upham	286,507	Oct. 9	906	245	25	175
Wire-barbing machine	F. W. Brainerd	277,451	May 15	1164	312	23	1839
Wire-barbing machine	O. P. Briggs	281,444	July 17	1384	380, 381	24	256
Wire-barbing machine	J. H. Coon	285,016	Sept. 18	1062	297, 298	24	1100
Wire-barbing machine	H. B. Hedge and T. A. Noble	273,838	Mar. 13	774	210	23	975
Wire-barbing machine	A. Johnston	273,286	Mar. 6	48	15	23	843
Wire-barbing machine	E. P. Peacock	287,714	Oct. 30	2469	665, 666	25	479
Wire-barbing machine	H. B. Scutt	280,676	July 3	405	113	24	72
Wire-barbing machine	D. C. Stover	285,855	Oct. 2	91	27	25	18
Wire-barbing machine	D. C. Stover	287,783	Oct. 30	2563	689	25	496
Wire-barbing machines. Center for	W. T. Burrows	289,750	Dec. 4	476	134	25	970
Wire bending and forming machine	W. B. Curtiss	283,327	Aug. 14	1025	287, 288, 289	24	691
Wire clamp. Ground	H. W. Pope	283,276	Aug. 14	965	269	24	679
Wire-cloth for the manufacture of paper, &c	G. R. Caldwell	284,273	Sept. 4	143	40	24	928
Wire-cloth-sample card	H. H. Waters	272,005	Feb. 6	516	138	23	529
Wire-coating apparatus	L. L. Smith	276,914	May 1	485	128	23	1711
Wire-coating for drawing	A. B. Clemence	282,055	July 31	2165	.....	24	401
Wire-coiling machine	E. W. Durkee	273,483	Mar. 6	312	85	23	887
Wire continuously. Process of and apparatus for annealing, cleaning, and galvanizing or plaiting	C. S. Hall, C. M. Whitcomb, and W. J. D'Ewart.	286,538	Oct. 9	944	254	25	182
Wire-coupling	C. Collins	278,097	May 22	1929	529	23	1977
Wire-covering machine	W. Halkyard	281,186	July 10	1048	290	24	192
Wire. Device for handling spooled barbed	W. T. Burrows	290,969	Dec. 25	2044	562	25	1266
Wire. Die for indenting	M. Wieser	271,178	Jan. 23	1671	481	23	334
Wire-drawing machine	W. T. Brennan	289,805	Dec. 11	539	150	25	987
Wire fabric and making the same	J. Simonson	281,804	July 24	1855	507	24	342
Wire fabrics. Machine for making	W. J. Davisson	289,507	Dec. 4	170	46, 47, 48	25	916
Wire. Forming metal	G. Gray	276,391	Apr. 24	1961	543	23	1585
Wire from sheet metal. Machine for forming	J. M. Estabrook	280,023	June 26	1747	490, 491	23	2443
Wire. Implement for handling coils of	A. McGuiggan	288,467	Nov. 13	982	233	25	665
Wire. Let-off mechanism for looms for weaving	C. Smith	277,623	May 15	1372	369	23	1873
Wire. Loom for weaving	J. McMurray	288,468	Nov. 13	863	233, 234	25	665
Wire. Loom for weaving	C. F. Wickwire	282,430	July 31	2658	729	24	484
Wire looping and cutting apparatus	W. Wilson, Jr	290,955	Dec. 25	2015	556	25	1262
Wire machine. Barb	W. Edenborn and G. Griesche	270,645	Jan. 16	1012	291, 292	23	214
Wire machine. Barb	W. Edenborn and G. Griesche	270,646	Jan. 16	1015	292, 293	23	214
Wire machine. Barb	H. Fuchs	278,930	June 5	390	107	23	2190
Wire machine. Barbed	O. O. Kittleson	280,189	June 26	1925	541, 542	23	2476

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wire. Machine for engraving	J. A. Charnley	290,318	Dec. 18	1176	329	25	1110
Wire. Machine for making barbed	O. P. Briggs	281,443	July 17	1375	379, 380	24	255
Wire. Machine for making barbed	J. W. Nadelhoffer	281,120	July 10	958	268, 269	24	176
Wire. Machine for making barbed	N. G. Ross	273,765	Mar. 13	687	184, 185	23	959
Wire. Machine for stringing barbs on	O. P. Briggs	292,698	Aug. 7	268	77, 78	24	546
Wire. Manufacture of covered or insulated	J. D. Thomas	271,750	Feb. 6	197	55, 56	23	474
Wire. Manufacturing	E. J. Watson and C. S. Hall	279,295	June 12	843	.....	23	2277
Wire nail	W. D. Sloan	276,541	Apr. 24	2143	596	23	1617
Wire-netting	W. H. Johnson	278,147	May 22	1996	549	23	1989
Wire or metal cleaning bath	B. F. Aiken, Jr	288,150	Nov. 6	439	.....	25	584
Wire-pointing machine	C. B. Brainard	279,124	June 12	654	179	23	2245
Wire preparatory to drawing. Coating for	E. J. Watson, C. S. Hall, and P. Bauer.	284,345	Sept. 4	227	.....	24	943
Wire. Process of and apparatus for manufacturing continuous lengths of coiled	F. P. Barney	283,557	Aug. 21	1312	367	24	749
Wire-puller	J. Keene	288,241	Nov. 13	561	156	25	614
Wire-reel	L. P. Johnson	280,628	July 3	348	96	24	61
Wire-reel	H. Roberts	286,639	Oct. 16	1081	291	25	212
Wire-reeling machine	J. Lynam	274,953	Apr. 3	89	24	23	1240
Wire rods. Apparatus for reeling	F. H. Daniels	290,216	Dec. 18	1046	294	25	1068
Wire rods. Making	F. H. Daniels	283,469	Aug. 21	1211	340	24	731
Wire rope and cables. Manufacturing	F. A. Wiswell	276,315	Apr. 24	1850	515, 516, 517	23	1567
Wire-rope grip	A. H. Matheslus	287,451	Oct. 30	2113	574	25	410
Wire-rope machine	T. S. Stevenson	288,677	Nov. 20	1122	308	25	717
Wire rope. Machine for making	F. A. Wiswell	276,318	Apr. 24	1870	519, 520	23	1569
Wire rope. Machine for the manufacture of	F. A. Wiswell	276,317	Apr. 24	1861	518, 519	23	1568
Wire rope. Manufacturing	F. A. Wiswell	276,316	Apr. 24	1857	517, 518	23	1567
Wire seat. Woven	H. Roberts	276,881	May 1	447	190	23	1705
Wire seat. Woven	H. Roberts	279,598	June 19	1233	341, 342	23	2347
Wire springs. Machine for forming	R. S. Baldwin	273,933	Mar. 13	894	244	23	995
Wire-straightener. Rotary	S. W. Goodyear and M. A. Morris	277,267	May 8	940	252	23	1794
Wire-stretcher	J. J. Cook	287,244	Oct. 23	1860	509	25	356
Wire-stretcher	G. S. Dean	281,673	July 24	1677	457	24	310
Wire-stretcher	A. C. Decker	288,166	Nov. 6	458	122	25	587
Wire-stretcher	W. C. Henshaw	279,948	June 26	1652	463	23	2426
Wire-stretcher	A. Hill	286,302	Oct. 9	663	177	25	130
Wire-stretcher	H. H. Hutchins	274,198	Mar. 20	1221	336	23	1060
Wire-stretcher	H. McIntosh	284,969	Sept. 11	990	279	24	1081
Wire-stretching machine	D. W. Norris and W. Young	288,359	Nov. 13	715	196	25	640
Wire-tightener	A. A. Atwood	290,384	Dec. 18	1258	353	25	1124
Wire to metal-coating baths. Apparatus for feeding	H. Roberts	275,521	Apr. 10	862	233	23	1381
Wire tubes. Machine for making	H. O. Lothrop	290,694	Dec. 25	1679	462	25	1203
Wire-twister	A. L. Sjölinder and E. Larson	270,494	Jan. 9	807	235	23	167
Wire-tyer	B. F. Bell	279,525	June 19	1153	319	23	2333
Wire-wiper	H. Crich	274,727	Mar. 27	1907	532	23	1186
Wire-wiping apparatus	F. Crich	275,364	Apr. 10	652	174	23	1346
Wire-wiping compound	H. Roberts and F. Crich	275,415	Apr. 10	723	.....	23	1350
Wire. Wiping metal-coated	H. Roberts	275,590	Apr. 10	860	232, 233	23	1381
Wire, wire rods, &c. Apparatus for annealing, cleaning, and galvanizing or plating	T. Midgley	279,580	June 19	1213	336, 337	23	2344
Wire-work. Machine for forming	F. J. Brand	274,557	Mar. 27	1711	475	23	1150
Wire wrapping or covering machine	C. Conner	278,099	May 22	1931	530	23	1978
Wires. Composition for coating and insulating underground	H. R. Brissett and J. Howe	283,200	Aug. 14	870	.....	24	662
Wires. Machine for stringing barbs upon	S. Turner and G. B. Durkee	281,653	July 17	1641	448, 449	24	299
Wires. Roll for flattening the ends of terminal	A. Swan	276,962	May 1	583	153	23	1726
Wires through tubes. Apparatus for threading	H. B. Lytle	273,295	Mar. 6	66	19	23	845
Wires through tubes. Motor for drawing	W. J. Phillips and G. L. Kitson	274,818	Mar. 27	2019	562	23	1206
Wonder-camera	E. B. Foote, Jr	273,500	Mar. 6	328	89	23	890
Wood and metal. Compound for preserving	L. D. Mott, Jr	284,653	Sept. 11	603	.....	24	1012
Wood-bending form	B. M. Myers and W. H. H. Williams	283,412	Aug. 21	1139	332	24	718
Wood-bending machine	G. Meyer	281,104	July 10	936	262	24	173
Wood by impregnation to given heights. Preserving	G. S. Valentine	285,087	Sept. 18	1148	321	24	1114
Wood-cutter	J. Burge	284,944	Sept. 11	961	270	24	1075
Wood. Cutting articles from	S. H. Smith	278,828	June 5	207	61	23	2158
Wood-cutting machine	J. L. Gage	272,038	Feb. 13	564	152, 153	23	550
Wood-dressing machine	S. R. Bailey	277,827	May 15	1601	438	23	1915
Wood-filler	R. Parke	281,721	July 24	1746	.....	24	322
Wood-fluting machine	E. I. Engelmann	283,874	Aug. 28	1698	478	24	831
Wood. Machine for bundling kindling	M. J. Shaw	282,381	July 31	2591	712	24	472
Wood. Machine for ornamenting	W. J. Robinson	283,664	Aug. 21	1431	401	24	772
Wood. Manufacture of articles of	S. C. Bigford	285,455	Sept. 25	1589	446	24	1198
Wool-oiling apparatus	F. Herboth	287,025	Oct. 23	1578	435	25	305
Wool-oiling machine	J. L. Mathews	288,465	Nov. 13	859	232, 233	25	665
Wood. Ornamenting	J. P. Jamison	271,469	Jan. 30	2049	590	23	409
Wood-polishing machine	A. Bridgman and J. Challoner	285,728	Sept. 25	1919	544, 545	24	1259
Wood-polishing machine	J. L. Perry	273,303	Mar. 6	76	22, 23	23	847
Wood-polishing machine	J. Willis	278,647	May 29	2651	725	23	2111
Wood-preserving composition	L. N. Teachman	277,810	May 15	1583	.....	23	1911
Wood. Solution for seasoning and preserving	J. Loomis	273,861	Mar. 13	810	219	23	981

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wood-splitting machine	A. B. Holcombe	269,856	Jan. 2	44	14	23	11
Wood-splitting machine	W. H. Mors and J. C. Cross	280,657	July 3	381	107	24	67
Wood-staining compound	A. W. O'Blenus	270,833	Jan. 16	1944	.....	23	258
Wood-turning machine	J. D. Craig	280,453	July 3	143	39	24	27
Wood-turning machine	F. Hanson	272,242	Feb. 13	816	237	23	583
Wood-working machine	J. G. Austin	270,014	Jan. 23	1472	423, 424	23	302
Wood-working machine	W. E. Varney and W. J. Hull	279,051	June 5	538	147, 148	23	2215
Wood-working machine	W. E. Varney and W. J. Hull	279,052	June 5	541	148	23	2215
Wood-working-machine cutter	A. I. Sanborn	282,671	Aug. 7	235	68	24	540
Wood-working machines. Balancing knives for	H. A. Crosaley	285,236	Sept. 18	1326	374	24	1146
Wood-working machines. Endless-chain bed for	L. P. Hoyt	275,213	Apr. 3	497	117	23	1299
Wood-working machines. Registering attachment for	A. E. Palmer	273,383	Mar. 6	190	51	23	866
Wooden bows. Cooling-rack for bent	W. Aldrich	271,564	Feb 6	1	1	22	441
Wooden plate	S. H. Smith	273,773	Mar. 13	697	187	23	961
Wooden plate	E. C. Westervelt	284,347	Sept. 4	230	65	24	943
Wooden plates. Machine for cutting	S. H. Smith	276,198	Apr. 24	1706	471, 472	23	1543
Wooden rings. Machine for making	R. V. Boice	273,806	Mar. 13	733	199	23	968
Wooden rings. Polishing	T. J. Sammons	280,520	July 3	224	59	24	40
Wooden shovel	F. A. Stegner	281,158	July 10	1007	282	24	185
Wool. Apparatus for extracting grease from	A. H. Butel	276,349	Apr. 24	1906	529	23	1576
Wool-combing machine	W. Wardman	276,313	Apr. 24	1849	515	23	1567
Wool. Method of and apparatus for removing vegetable matter from	A. Snoeck	270,992	Jan. 23	1446	417	23	298
Wool, &c. Process of and apparatus for extracting oil, fat, and oily and fatty matters from	T. J. Mullings	287,786	Oct. 30	2567	690	25	497
Wool-washing machine	T. J. Mullings	285,831	Oct. 2	60	18	25	13
Woolen fabrics from short-staple fiber. Manufacturing	L. Chaux	288,015	Nov. 6	291	.....	25	557
Work-bench	C. A. Williams	289,947	Dec. 11	712	201	25	1018
Work-benches. Device for fastening saw-clamps, &c., to	A. B. Coburn	289,227	Nov. 27	1791	496	25	845
Work-holding device	H. A. Davis	281,244	July 17	1133	312	24	214
Work-table. Lady's	B. G. Borgesen	272,201	Feb. 13	764	211	23	584
Woven fabric and loom for weaving the same	A. Urbahn	289,731	Dec. 4	452	126, 127	25	965
Wrench: *See* Carriage-wrench. Jaw-wrench. Machine-wrench. Monkey-wrench. Pipe-wrench. Pipe or nut wrench. Ratchet-wrench. Revolving wrench. Socket-wrench. Stud-wrench. Suspension-wrench. Tap-wrench.							
Wrench	F. Armstrong	274,544	Mar. 27	1697	471	23	1148
Wrench	F. Armstrong and J. H. Hine	274,545	Mar. 27	1698	471	23	1148
Wrench	H. W. Atwater	284,162	Sept. 4	2	1	24	905
Wrench	W. Baxter	281,431	July 17	1362	376	24	252
Wrench	W. Baxter	281,432	July 17	1363	376	24	252
Wrench	C. A. Blomquist and T. Buskirk	284,598	Sept. 11	537	152	25	1001
Wrench	J. H. Bowen	273,017	Feb. 27	1819	510	23	780
Wrench	J. J. Brandt	283,696	Aug. 21	1476	416	24	781
Wrench	J. W. Calef	273,461	Mar. 6	285	77	23	882
Wrench	J. H. Coes	289,069	Nov. 27	1605	445	25	811
Wrench	H. Crowther	288,927	Nov. 20	1492	392	25	772
Wrench	G. W. Davenport	279,722	June 19	1377	384	23	2372
Wrench	J. Davidson	289,506	Dec. 4	169	46	25	916
Wrench	R. W. Davis	286,913	Oct. 16	1429	393	25	272
Wrench	J. A. Dodge	274,113	Mar. 20	1122	309	23	1041
Wrench	I. W. and T. F. Giles	277,265	May 8	938	252	23	1794
Wrench	J. M. Hamrick	278,135	May 22	1984	545	23	1987
Wrench	J. M. Harland	288,432	Nov. 13	815	221	25	658
Wrench	I. Q. Holmes	284,015	Aug. 28	1895	531	24	866
Wrench	J. Houlehan	278,553	May 29	2535	691	23	2692
Wrench	J. Houlehan	289,347	Nov. 27	1936	537	25	673
Wrench	A. Hyde	286,543	Oct. 9	953	256	25	183
Wrench	W. E. Lawrence	285,415	Sept. 25	1540	434	24	1190
Wrench	J. Lee	288,713	Nov. 20	1164	319	25	724
Wrench	J. McAlpin	277,590	May 15	1330	357	23	1865
Wrench	D. V. Miller	283,801	Aug. 28	1614	454	24	817
Wrench	C. H. Myers	288,098	Nov. 6	384	108	25	574
Wrench	G. F. Newell	279,661	June 19	1307	363	23	2360
Wrench	F. E. Okie and J. F. Simpson	279,271	June 12	819	226	23	2273
Wrench	G. W. Pittman	286,842	Oct. 16	1339	366	25	258
Wrench	D. R. Porter	278,265	May 22	2153	591	23	2016
Wrench	O. E. H. N. Reichling	275,079	Apr. 3	265	73	23	1271
Wrench	C. Schinke	280,673	July 3	403	112	24	71
Wrench	W. J. Sherman	283,675	Aug. 21	1450	407	24	776
Wrench	W. N. Smith and H. M. Vincent	286,561	Oct. 9	976	262	25	187
Wrench	B. F. Stockford	281,318	July 17	1226	339	24	229
Wrench	H. A. Thompson	286,653	Oct. 16	1097	296	25	215
Wrench	C. D. Wells and C. A. Newlin	285,449	Sept. 25	1580	444	24	1197
Wrench	H. Wheeler	279,696	June 19	1577	442	23	2408
Wrench and pinchers. Combined	S. L. Willmer	270,356	Jan. 9	630	186	23	133
Wrench and stretcher. Combined	W. A. Irwin	285,902	Oct. 2	159	44	25	31
Wrench. Automatic self-setting	B. F. Bennett	287,998	Nov. 6	968	76	25	554
Wrench for wagon-axle nuts	T. L. Whitacre	284,521	Sept. 4	444	126	24	980
Wringer: *See* Clothes-wringer. Mop-wringer.							
Wringing-machines. Anti-friction bearing for	J. Jonson	286,618	Oct. 16	1057	284	25	908
Wrist-pin lubricator	H. H. Kimball and C. E. Perry	273,856	Mar. 13	804	217	23	980
Wrist-pin lubricator	C. E. Perry and H. H. Kimball	276,817	June 5	187	54	23	2154

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Writing-case. Manifold	F. D. Scott and O. L. Gordon	281,403	July 17	1329	368	24	247
Writing. Device for holding and guiding the fingers in	I. Bergman	282,948	Aug. 14	564	160	24	608
Wrought and sheet iron vessel	J. Chaumont	287,624	Oct. 30	2353	635	25	456
Yarn-hanking machine	J. F. McAfee	271,889	Feb. 6	365	101	23	505
Yarns or threads. Apparatus for manufacturing napped or filled	J. T. Waring	279,997	June 26	1707	479	23	2436
Yeast. Device for cutting	L. Kasehagen and H. Wietheger	282,088	July 31	2209	607	24	408
Yeast from juices of grains, &c. Production and collection of fertile	G. Claudon and C. Vigreux	279,337	June 12	907	.....	23	2287
Yeast. Preparing	T. J. Delany and W. W. Jameson	287,367	Oct. 23	2008	.....	25	383
Yeast. Preparation of	S. Levy. (Reissue)	10,341	June 12	1135	.....	23	2324
Yoke attachment. Neck-	F. Svoboda	282,471	July 31	2707	744	24	492
Yoke center. Neck-	J. L. Ryno	291,005	Dec. 25	2092	576	25	1273
Yoke coupling. Neck-	J. McKibbin	290,257	Dec. 18	1092	304	25	1096
Yoke for draft-animals	E. L. Johnson	287,682	Oct. 30	2490	653	25	471
Yoke holder. Neck-	S. Colahan	288,024	Nov. 6	298	84	25	588
Yoke. Neck-	C. H. Bambach	274,696	Mar. 27	1877	523	23	1181
Yoke. Neck-	E. B. Childs	278,400	May 29	2348	642	23	2058
Yoke. Neck-	J. B. Dobyne and R. S. Fleming	281,250	July 17	1143	315	24	215
Yoke. Neck-	G. A. Gregerson	274,759	Mar. 27	1948	542	23	1194
Yoke. Neck-	E. H. Haight	278,703	June 5	737	11	23	2131
Yoke. Neck-	J. W. Harris	289,256	Nov. 27	1821	503	25	851
Yoke. Neck-	E. B. Hartwell	278,952	June 5	415	113	23	2194
Yoke. Neck-	J. Hollister	269,858	Jan. 2	46	14	23	12
Yoke. Neck-	L. D. Hornbeck	270,802	Jan. 16	1907	348	23	251
Yoke. Neck-	G. W. Hurd	287,834	Nov. 6	54	16	25	517
Yoke. Neck-	J. Jensen	280,183	June 26	1820	540	23	2474
Yoke. Neck-	F. C. Johnson	282,529	Aug. 7	66	20	24	512
Yoke. Neck-	Z. Norton	277,503	May 15	1294	329	23	1849
Yoke. Neck-	J. H. Osborne	282,918	Aug. 7	524	147	24	593
Yoke. Neck-	J. T. Ramsey	288,364	Nov. 13	730	198	25	642
Yoke. Neck-	H. A. Schermerhorn	275,714	Apr. 10	1100	300	23	1492
Yoke. Neck-	H. R. Wallace	279,847	June 19	1520	425	23	2397
Zinc. Apparatus for the manufacture of oxide of	M. Lambert	283,901	Aug. 28	1728	488	24	836
Zinc. Manufacture of anhydrous sulphide of	T. Macfarlane	271,090	Jan. 23	1562	.....	23	317
Zinc ores. Process of and apparatus for reducing	L. Létrange	286,208	Oct. 9	523	144	25	407
Zithern	G. Bender	286,524	Oct. 9	928	250	25	179
Zylonite, &c. Apparatus for polishing sheets of	J. B. Edson	289,239	Nov. 27	1803	499	25	847
Zylonite, &c., for collars, cuffs, &c. Forming and finishing fabrics coated with	J. B. Edson	289,242	Nov. 27	1805	.....	25	848
Zylonite. Forming and finishing surfaces coated with	J. B. Edson	289,240	Nov. 27	1804	.....	25	848
Zylonite to resemble pebble-goat, French calf, and alligator leather. Treating material with	J. B. Edson	289,338	Nov. 27	1926	.....	25	871
Zylonite with other sheeted substances. Combining sheets of	J. B. Edson	290,553	Dec. 18	1498	413	25	1165

ALPHABETICAL LIST OF DESIGNS.

Design.	Name.	No.	Date.	Official Gazette. Volume.	Page.
Advertising-blank	C. K. Mills	13,590	Jan. 9	23	95
Advertising-clock	W. Bellman	14,090	July 17	24	207
Advertising-column	R. D. Bradley	14,137	July 31	24	393
Advertising device	H. P. Childs	13,693	Mar. 6	23	834
Advertising-post	G. Fuchs	14,140	July 31	24	393
Alphabet	S. H. Holland	14,143	July 31	24	393
Alto-rilievo	W. Schumacher	14,041	July 3	24	2
Apron. Baby's creeping	M. Turner	14,456	Nov. 27	25	790
Arm-chair	N. Wheeler	13,713	Mar. 6	23	834
Atomizer	J. G. Justin	13,975	June 12	23	2242
Autograph-sheet	J. Gerson	13,696	Mar. 6	23	834
Axle-nut	D. Wentworth	14,089	July 10	24	104
Badge or emblem	P. H. Rinn	13,992	June 19	23	2329
Bag or satchel. Hand	A. L. Silberman	14,464	Dec. 4	25	885
Bannner	S. W. Johnson	14,256	Sept. 4	24	903
Bas-relief	E. Meyer	13,924	May 22	23	1930
Basin. Lavatory	T. Haynes	14,023	July 3	24	1
Basque. Lady's	C. O'Hara	14,432	Nov. 20	25	702
Basque. Lady's	J. Q. Reed	14,511	Dec. 25	25	1193
Basque. Lady's	L. Tully	14,460	Nov. 27	25	790
Basque. Lady's dress	J. Q. Reed	14,371	Oct. 23	25	293
Bed-spring	B. T. Millikin	14,242	Aug. 28	24	802
Bed-spring	S. H. Turner	13,820	Mar. 27	23	1126
Bell	W. E. Barton	14,263	Sept. 11	24	997
Bell. Sleigh	W. E. Barton	14,236	Aug. 28	24	801
Blouse. Boy's	J. Q. Reed	14,453	Nov. 27	25	790
Boot-strap	H. C. Noble	13,985	June 19	23	2329
Bottle	T. Davis	13,736	Mar. 20	23	1035
Bottle	C. Gulden	13,868	Apr. 24	23	1532
Bottle	M. G. Landsberg	13,699	Mar. 6	23	834
Bottle	H. H. Warner	14,435	Nov. 20	25	702
Bottle-coaster	F. B. Wilson	14,437	Nov. 20	25	702
Bottle. Pickle	H. J. Heinz	14,254	Sept. 4	24	903
Bottle show-box	R. H. Brown	14,252 14,253	Sept. 4	24	903
Bottle-stopper	J. S. Stites	14,330	Sept. 25	24	1180
Bottles. Ornamenting	S. J. Cox	14,154	Aug. 7	24	499
Box	T. Candy	13,692	Mar. 6	23	834
Bracelet	R. H. Ahn	14,438	Nov. 27	25	789
Bracelet	H. E. Chadwick and H. P. Lester	14,391	Nov. 6	25	506
Bracelet-chain	B. S. Freeman	14,093	July 17	24	207
Breastpin	C. A. Fowler	14,502	Dec. 25	25	1193
Breastpin	J. T. Quayle	14,480	Dec. 11	25	984
Bridle-bit	H. E. Fowler	13,867	Apr. 24	23	1531
Brush-handle	J. B. Edson	14,331	Oct. 2	25	1
Buckle	C. V. Goddard	13,898	May 8	23	1736
Buckle	R. G. Hanford, Jr.	13,832	Apr. 3	23	1125
Bureau	J. F. Reitz	14,317	Sept. 18	24	1094
Burial-casket	W. J. Noble	13,703	Mar. 6	23	834
Burial-casket	T. M. Taylor	13,970	June 5	23	2123
Burial-caskets. Ornamentation of	S. Reynolds	14,496	Dec. 18	25	1081
Burial-caskets. Ornamentation of	S. Reynolds	14,597	Dec. 25	25	1194
Butter-print	G. M. Oyster	14,109	July 17	24	207
Button back. Sleeve	T. A. Searle	14,106	July 17	24	207
Button. Lady's collar	G. H. Cragg	13,610	Feb. 13	23	543
Button. Sleeve	F. I. Marcy	14,241	Aug. 28	24	802
Button. Sleeve	A. P. Phillips	14,260	Sept. 4	24	903
Calendar	J. H. Littell	14,159	Aug. 7	24	499
Calendar	C. S. Nathan	14,026 to 14,028	July 3	24	1
Calendar-card	H. Toaspern, Jr.	14,465	Dec. 4	25	885
Car. Railway	N. Wheeler	13,712	Mar. 6	23	834
Card	G. M. Hayes	13,697	Mar. 6	23	834
Card	G. M. Hayes	13,869	Apr. 24	23	1532
Card	C. A. Wright	13,567	Jan. 30	23	347
Card. Cigarette show	J. Huppmann	14,392	Sept. 25	24	1180
Card-grinding machine	B. S. Roy	13,888	May 1	23	1626
Carpet	F. Allen	13,733 to 13,735	Mar. 20	23	1035
Carpet	F. Allen	14,110 to 14,114	July 24	24	305
Carpet	A. Beaumont	14,249 to 14,251	Sept. 4	24	903
Carpet	F. Bend	14,134 to 14,135	July 31	24	393
Carpet	E. H. Bennett	14,288	Sept. 18	24	1093

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Carpet	P. C. Chambellan	14,017	July 3	24	1
Carpet	F. W. B. Christie	14,047	July 10	24	103
Carpet	F. W. B. Christie	14,180	Aug. 21	24	707
Carpet	A. Cochran	13,653 to 13,660	Feb. 27	23	743
Carpet	A. Cochran	14,494	Nov. 20	25	702
Carpet	E. A. Costain	14,467	Dec. 11	25	983
Carpet	E. A. Crowe	13,569 to 13,572	Feb. 6	23	439
Carpet	E. A. Crowe	13,822 13,823	Mar. 27	23	1126
Carpet	E. A. Crowe	13,929 to 13,939	May 29	23	2036
Carpet	E. A. Crowe	14,048 to 14,058	July 10	24	103
Carpet	E. A. Crowe	14,172 to 14,179	Aug. 21	24	707
Carpet	E. A. Crowe	14,289 14,290	Sept. 18	24	1093
Carpet	A. Danby	13,573 to 13,575	Feb. 6	23	439
Carpet	A. Danby	13,611	Feb. 13	23	543
Carpet	A. Danby	14,354	Oct. 23	25	293
Carpet	H. Davis	14,059	July 10	24	103
Carpet	E. Fajon	13,623	Feb. 20	23	633
Carpet	E. Fajon	13,858	Apr. 17	23	1449
Carpet	E. Fajon	13,903	May 15	23	1836
Carpet	A. Fisher	14,440	Nov. 27	25	789
Carpet	E. Fisher	13,576 to 13,578	Feb. 6	23	439
Carpet	E. Fisher	13,624	Feb. 20	23	633
Carpet	E. Fisher	13,808 13,809	Mar. 27	23	1125
Carpet	E. Fisher	13,941 to 13,947	May 29	23	2036
Carpet	E. Fisher	13,965	May 29	23	2036
Carpet	E. Fisher	14,060 to 14,065	July 10	24	103
Carpet	E. Fisher	14,182	Aug. 21	24	707
Carpet	J. L. Folsom	13,737 to 13,792	Mar. 20	23	1035 1036
Carpet	J. L. Folsom	14,183 to 14,212	Aug. 21	24	707
Carpet	J. L. Folsom	14,266	Sept. 11	24	997
Carpet	J. L. Folsom	14,343	Oct. 9	25	97
Carpet	W. J. Gadsby	13,579	Feb. 6	23	439
Carpet	W. J. Gadsby	13,793	Mar. 20	23	1036
Carpet	W. J. Gadsby	14,066	July 10	24	103
Carpet	W. J. Gadsby	14,291	Sept. 18	24	1093
Carpet	A. L. Halliday	13,997	June 19	23	2329
Carpet	A. L. Halliday	14,019 to 14,022	July 3	24	1
Carpet	A. L. Halliday	14,116	July 24	24	305
Carpet	A. L. Halliday	14,141	July 31	24	393
Carpet	A. L. Halliday	14,292 to 14,294	Sept. 18	24	1093
Carpet	A. L. Halliday	14,332 14,333	Oct. 2	25	1
Carpet	A. Heald	13,581 to 13,585	Feb. 6	23	439
Carpet	O. Heinigke	13,663	Feb. 27	23	743
Carpet	O. Heinigke	13,811	Mar. 27	23	1126
Carpet	O. Heinigke	14,214 14,215	Aug. 21	24	707
Carpet	O. Heinigke	14,344	Oct. 9	25	97
Carpet	O. Heinigke	14,347 14,348	Oct. 16	25	195
Carpet	O. Heinigke	14,469	Dec. 11	25	983
Carpet	R. P. Hemming	14,068	July 10	24	103
Carpet	R. P. Hemming	14,357 14,358	Oct. 23	25	293
Carpet	H. Horan	13,625 to 13,627	Feb. 20	23	633
Carpet	H. Horan	13,825	Mar. 27	23	1126
Carpet	H. Horan	13,880 to 13,883	May 1	23	1696
Carpet	H. Horan	14,217 14,218	Aug. 21	24	707

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Carpet	H. Horan	14,295 to 14,302	Sept. 18	24	1093
Carpet	H. Hunt	13,664 13,665	Feb. 27	23	743
Carpet	H. Hunt	13,796	Mar. 20	23	1036
Carpet	H. Hunt	13,812	Mar. 27	23	1126
Carpet	H. Hunt	13,858	Apr. 10	23	1339
Carpet	H. Hunt	14,360	Oct. 23	25	293
Carpet	W. L. Jacobs	13,667 to 13,672	Feb. 27	23	743
Carpet	W. L. Jacobs	13,798 to 13,801	Mar. 20	23	1036
Carpet	W. L. Jacobs	13,813	Mar. 27	23	1126
Carpet	W. L. Jacobs	14,219 to 14,224	Aug. 21	24	707
Carpet	W. L. Jacobs	14,345	Oct. 9	25	97
Carpet	W. L. Jacobs	14,470 to 14,473	Dec. 11	25	983
Carpet	W. L. Jacobs	14,504 14,505	Dec. 25	25	1193
Carpet	W. Kerr	13,802 to 13,804	Mar. 20	23	1036
Carpet	C. Magee	13,702	Mar. 6	23	834
Carpet	W. McCallum	13,629	Feb. 20	23	633
Carpet	W. McCallum	14,267	Sept. 11	24	997
Carpet	W. McCallum	14,305	Sept. 18	24	1093
Carpet	W. McCallum	14,363	Oct. 23	25	293
Carpet	W. McCallum	14,394 14,395	Nov. 6	25	506
Carpet	D. McNair	13,591	Feb. 6	23	439
Carpet	D. McNair	13,630	Feb. 20	23	633
Carpet	D. McNair	14,268 to 14,270	Sept. 11	24	997
Carpet	T. E. Meagher	13,628	Feb. 20	23	633
Carpet	T. E. Meagher	13,631	Feb. 20	23	633
Carpet	T. E. Meagher	14,119	July 24	24	305
Carpet	D. G. Melville	13,862 13,863	Apr. 17	23	1450
Carpet	D. G. Melville	14,071	July 10	24	103
Carpet	D. G. Melville	14,306	Sept. 18	24	1093
Carpet	D. G. Melville	14,361 14,362	Oct. 23	25	293
Carpet	J. S. Meyer	13,674 to 13,676	Feb. 27	23	743
Carpet	J. S. Meyer	14,474	Dec. 11	25	983
Carpet	J. S. Meyer	14,506 14,507	Dec. 25	25	1193
Carpet	H. Mitchell	14,307	Sept. 18	24	1093
Carpet	J. Neil	13,565	Jan. 30	23	347
Carpet	J. Neil	13,998	June 19	23	2329
Carpet	J. B. Neil	14,229	Aug. 21	24	708
Carpet	J. B. Neil	14,308	Sept. 18	24	1093
Carpet	H. North	14,309	Sept. 18	24	1094
Carpet	T. Onslow	13,633 13,634	Feb. 20	23	633
Carpet	T. Onslow	14,124	July 24	24	305
Carpet	H. A. Parker	14,479	Dec. 11	25	984
Carpet	H. W. Parton	14,243	Aug. 28	24	802
Carpet	H. W. Parton	14,311	Sept. 18	24	1094
Carpet	J. Pegel	13,678 13,679	Feb. 27	23	743
Carpet	J. Pegel	14,273	Sept. 11	24	997
Carpet	E. Petit	13,704 to 13,709	Mar. 6	23	834
Carpet	E. Petit	14,073 14,074	July 10	24	103
Carpet	E. Petit	14,103 14,104	July 17	24	207
Carpet	A. Petzold	14 075	July 10	24	103
Carpet	A. Petzold	14,088	July 10	24	104
Carpet	A. Petzold	14,369	Oct. 23	25	293
Carpet	G. W. Piggott	14,274 14,275	Sept. 11	24	997
Carpet	G. W. Piggott	14,342	Oct. 2	25	2
Carpet	P. Pignot	13,563	Jan. 30	23	347
Carpet	P. Pignot	13,592 to 13,595	Feb. 6	23	440
Carpet	P. Pignot	13,680	Feb. 27	23	743
Carpet	P. Pignot	13,986 to 13,991	June 19	23	2329
Carpet	P. Pignot	14,029 to 14,037	July 3	24	1, 2
Carpet	P. Pignot	14,044	July 3	24	2

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Carpet	P. Pignot	14,105	July 17	24	307
Carpet	E. Poole	13,636 to 13,637	Feb. 20	23	633
Carpet	E. Poole	13,896	Mar. 27	23	1126
Carpet	E. Poole	13,897	May 1	23	1696
Carpet	E. Poole	13,952 to 13,953	May 29	23	2036
Carpet	E. Poole	14,312 to 14,316	Sept. 18	24	1094
Carpet	G. W. Pugh	14,128	July 24	24	305
Carpet	G. Rapp	14,509	Dec. 25	25	1193
Carpet	C. A. Righter	13,682 to 13,688	Feb. 27	23	744
Carpet	C. A. Righter	14,277 to 14,282	Sept. 11	24	906
Carpet	O. Righter	13,640 to 13,644	Feb. 20	23	634
Carpet	O. Righter	14,283 to 14,286	Sept. 11	24	906
Carpet	E. G. Sauer	13,646	Feb. 20	23	634
Carpet	E. G. Sauer	14,318 to 14,319	Sept. 18	24	1094
Carpet	S. Smith	14,130 to 14,131	July 24	24	306
Carpet	J. Spring	14,042	July 3	24	2
Carpet	T. J. Stearns	13,566	Jan. 30	23	347
Carpet	T. J. Stearns	13,647 to 13,648	Feb. 20	23	634
Carpet	T. J. Stearns	13,897	Mar. 27	23	1126
Carpet	T. J. Stearns	14,077	July 10	24	103
Carpet	T. J. Stearns	14,287	Sept. 11	24	906
Carpet	C. W. Swapp	13,596 to 13,602	Feb. 6	23	440
Carpet	C. W. Swapp	13,649 to 13,650	Feb. 20	23	634
Carpet	C. W. Swapp	13,898 to 13,899	Mar. 27	23	1126
Carpet	C. W. Swapp	13,955 to 13,964	May 29	23	2036
Carpet	C. W. Swapp	14,078 to 14,087	July 10	24	104
Carpet	C. W. Swapp	14,231 to 14,233	Aug. 21	24	708
Carpet	L. W. Valentine	14,321	Sept. 18	24	1094
Carpet-sweeper case	W. S. Carter	14,493	Dec. 18	25	1061
Case for thermometers, &c	M. Dittenhoefer	13,694 to 13,695	Mar. 6	23	834
Caster	H. Berry and K. A. Hathaway	14,593	Dec. 25	25	1194
Caster-cruet	H. Berry	13,691	Mar. 6	23	834
Casting bridle-bits. Pattern for	A. Buermann	13,659	Feb. 27	23	743
Center-piece. Plaster	W. F. Kellett	14,257 to 14,259	Sept. 4	24	903
Center-piece. Plaster	W. F. Kellett	14,394 to 14,395	Sept. 25	24	1180
Chain	C. Förster	13,857	Apr. 17	23	1449
Chain	H. Untermeyer	13,558	Jan. 30	23	347
Chain-link. Ornamental	J. Bushee	14,045	July 10	24	103
Chain-link. Ornamental	S. L. Lederer	13,718	Mar. 13	23	941
Chain. Ornamental	W. Ballou	13,714	Mar. 13	23	941
Chain. Ornamental	W. W. Briggs	13,715	Mar. 13	23	941
Chain. Ornamental	H. G. Smith	14,107	July 17	24	208
Chain-swivel	M. B. Mackreth	14,393	Nov. 6	25	506
Chain. Watch-	W. C. Edge	13,661	Feb. 27	23	743
Chain. Watch-	W. C. Edge	13,875	May 1	23	1696
Chenille pendant	B. Dreyfus	14,265	Sept. 11	24	907
Cigar-lighter	G. Fuchs	13,810	Mar. 27	23	1126
Cloak. Child's	C. O'Hara	14,364	Oct. 23	25	293
Cloak. Girl's	C. O'Hara	14,367	Oct. 23	25	293
Clock-case	W. D. Davies	14,392	Nov. 6	25	506
Clock dial and hands	S. Diolot	14,169	Aug. 14	24	605
Clock-front	H. J. Davies	14,501	Dec. 25	25	1193
Clocks. Moon-dial for	H. Rost	14,421	Nov. 13	25	694
Coat. Child's	M. Turner	14,455	Nov. 27	25	799
Coat. Lady's	C. O'Hara	14,430	Nov. 20	25	702
Coat. Lady's long	C. O'Hara	14,477	Dec. 11	25	984
Cockeye. Clip-	G. F. Eberhard	14,374	Oct. 30	25	398
Coffin	W. J. Noble	14,475	Dec. 11	25	983
Coffin-handle socket	W. M. Smith	14,422	Nov. 13	25	694
Coffin-plate	E. H. and J. H. Eldridge	13,967	June 5	23	2123
Coffin-plate	C. L. Wright	14,013	June 26	23	2415
Comb and brush box	H. O. Berg	14,000	June 26	23	2415
Confection	W. H. Stinard	14,010	June 26	23	2415
Corset	J. Bowers	14,466	Dec. 11	25	983
Corset	F. Welton	13,620	Feb. 13	23	544
Costume. Child's	C. O'Hara	14,366	Oct. 23	25	293

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Costume. Child's	C. O'Hara	14,448	Nov. 27	25	789
Costume. Child's	C. O'Hara	14,498 to 14,499	Dec. 18	25	1062
Costume. Girl's	C. O'Hara	14,365	Oct. 23	25	293
Costume. Girl's	C. O'Hara	14,368	Oct. 23	25	293
Costume. Girl's	C. O'Hara	14,478	Dec. 11	25	984
Costume. Girl's	L. Tully	14,457	Nov. 27	25	790
Costume. Girl's	M. Turner	14,458	Nov. 27	25	790
Costume. Girl's	M. Turner	14,513	Dec. 25	25	1194
Costume. Lady's	C. O'Hara	14,413	Nov. 13	25	604
Costume. Lady's	C. O'Hara	14,447	Nov. 27	25	789
Costume. Lady's	C. O'Hara	14,508	Dec. 25	25	1193
Costume. Lady's	J. Q. Reed	14,420	Nov. 13	25	604
Costume. Lady's	J. Q. Reed	14,452	Nov. 27	25	790
Costume. Lady's	S. J. Shiels	14,512	Dec. 25	25	1193
Costume. Miss's	J. Q. Reed	14,481	Dec. 11	25	984
Costume. Miss's princess	L. Tully	14,515	Dec. 25	25	1194
Cracker. Biscuit	J. Hartman	13,522	Jan. 16	23	195
Cracker or biscuit	A. J. Medlar	13,909	May 15	23	1836
Cretonne	G. W. Fries	13,732	Mar. 13	23	942
Crockery. Article of	F. A. Benedikt	14,136	July 31	24	393
Cup and saucer	T. R. Davis	13,807	Mar. 27	23	1125
Cup and saucer	T. R. Davis	13,845	Apr. 10	23	1339
Curb. Well	M. R. Daykin	13,966	June 5	23	2123
Curry-comb back-handle	M. Sweet	14,108	July 17	24	208
Curtain and upholstery fabric	H. Langer	13,884 to 13,885	May 1	23	1626
Curtain-band	B. Dreyfus	13,902	May 15	23	1836
Curtain-band	I. Dreyfus	13,622	Feb. 20	23	633
Curtain-band	C. Otto	14,101	July 17	24	207
Curtain-band	J. O. Remington	13,904	May 15	23	1836
Curtain-band	S. Steinecke	13,711	Mar. 6	23	834
Curtain-loop	W. R. Bassett	14,015	July 3	24	1
Curtain-poles, &c. Tubing for	R. S. Gould	13,580	Feb. 6	23	439
Cuspidor	O. Gutherz	13,515	Jan. 9	23	95
Cuspidor	G. Vogt	14,483	Dec. 11	25	984
Cuspidor-top	O. Gutherz	13,516	Jan. 9	23	95
Dish	J. Moses	14,328	Sept. 25	24	1180
Dish. Butter	H. Berry and K. A. Hathaway	14,521	Dec. 25	25	1194
Dish. Cake or fruit	H. Berry and K. A. Hathaway	14,525	Dec. 25	25	1194
Dish. China or earthenware	J. Chetwynd	13,716	Mar. 13	23	741
Dish. Covered	T. Maddock	13,977	June 12	23	2242
Dish. Soap	J. F. Lockwood	14,495	Dec. 18	25	1061
Dish. Vegetable	D. Willets	13,995	June 19	23	2329
Drilling-machine frame	S. W. Putnam	14,276	Sept. 11	24	997
Ear-ring and pendant	J. B. Van Houten	14,516 to 14,520	Dec. 25	25	1194
Earthenware vessel	J. Barlow and S. M. Alpaugh	14,388	Nov. 6	25	506
Electrical conductor	C. H. Pond	14,451	Nov. 27	25	790
Embroidery	H. Bosshardt	13,538	Jan. 23	23	274
Engine-frame	C. R. Arnold	14,404	Nov. 13	25	604
Engine-frame	G. M. Hopkins	14,024	July 3	24	1
Engine-frame	D. Whitlock	13,971	June 5	23	2123
Envelope	G. Sieckenberger	13,818	Mar. 27	23	1126
Fabric	C. R. Hieronymus	13,517 to 13,518	Jan. 9	23	95
Fabric	C. R. Hieronymus	13,542	Jan. 23	23	274
Fabric	C. R. Hieronymus	13,949	May 29	23	2036
Fan or screen. Feather	F. A. Ransom	14,261	Sept. 4	24	903
Fence-picket	W. Thomas	13,926	May 22	23	1930
Fence. Wire	G. Hunziker	14,442	Nov. 27	25	789
Fender	J. H. White	13,907	May 15	23	1836
Fender	J. H. White	14,170	Aug. 14	24	605
Fender. Fire-place	J. A. Read	14,350	Oct. 16	25	196
Finger-ring	H. C. Haskell	14,142	July 31	24	393
Finger-ring	L. J. Heintz	14,406	Nov. 13	25	604
Finger-ring	H. D. Sherrill	13,840	Apr. 3	23	1226
Finger-ring	C. J. Theuerner	14,351	Oct. 16	25	196
Finger-ring	B. D. Traitel	13,852	Apr. 10	23	1340
Finger-ring	B. D. Traitel	14,247	Aug. 28	24	802
Finger-ring setting	D. Goldsmith	14,468	Dec. 11	25	983
Fire-place back	W. H. Jackson and J. H. Hankinson	14,378	Oct. 30	25	398
Fire-place back	W. H. Jackson and J. H. Hankinson	14,462	Dec. 4	25	885
Fire-place casing	A. Osborne	14,385	Oct. 30	25	398
Fire-place casings. Facing for	A. Osborne	14,383	Oct. 30	25	398
Fire-place facing	A. Osborne	14,382	Oct. 30	25	398
Fire-place facing	A. Osborne	14,384	Oct. 30	25	398
Fire-place facing	A. Osborne	14,402	Nov. 6	25	506
Fire-place frame	J. A. Read	14,169	Aug. 14	24	605
Fire-place front	J. A. Read	14,076	July 10	24	103
Fire-place heater	H. C. Bascom and T. S. Heister	13,608	Feb. 13	23	543
Fire-place lining	J. A. Read	14,039	July 3	24	2
Fire-place or grate	W. H. Jackson and J. H. Hankinson	14,379	Oct. 30	25	398
Fire-screen	W. H. Hoyt	14,338	Oct. 2	25	1
Fire-screen	J. H. White	14,171	Aug. 14	24	605
Fishing-reel	T. H. Chubb	13,921	May 22	23	1930
Flask and bottle	D. R. Bradley	14,423	Nov. 20	25	702
Flower-pot	C. S. Reed	13,896	May 8	23	1736
Flower-pot bracket	H. R. Van Eps	13,905	May 15	23	1836
Flower-stand	H. R. Van Eps	13,906	May 15	23	1836
Fork	H. C. Hart	14,441	Nov. 27	25	789
Fringe	T. Abbott	13,889 to 13,890	May 8	23	1736

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Fringe	W. R. Bassett	14,014	July 3	24	1
Fringe	C. Cresson	13,891	May 8	23	1736
Fringe	C. Cresson	14,353	Oct. 23	25	293
Fringe	H. Goldthorp	13,509 to 13,510	Jan. 2	23	1
Fringe	J. Goodman	13,717	Mar. 13	23	942
Fringe	G. E. Goucher	13,892 to 13,895	May 8	23	1736
Fringe	J. Leonard	14,494	Dec. 18	25	1081
Fringe	B. Lipper	13,976	June 12	23	2242
Fringe	J. Loeb	13,587 to 13,590	Feb. 6	23	439
Fringe	J. Loeb	13,701	Mar. 6	23	834
Fringe	L. J. McDonald	13,615	Feb. 13	23	543
Fringe	J. L. O'Brien	13,639	Feb. 20	23	633
Fringe	F. L. Prindle	13,805	Mar. 20	23	1036
Fringe	C. A. Schmidt	13,710	Mar. 6	23	834
Fringe	C. A. Schmidt	13,817	Mar. 27	23	1196
Fringe	C. A. Schmidt	13,854	Apr. 10	23	1340
Fringe	S. Steinecke	13,841	Apr. 3	23	1238
Garment	A. Simon	13,925	May 22	23	1930
Gate	H. Faller	14,156	Aug. 7	24	499
Gate	J. Pirkl	13,635	Feb. 20	23	633
Gem-setting	H. G. Mackinney	14,295	Aug. 21	24	707
Gimp	H. Davenport	13,901	May 15	23	1836
Glass articles. Cut	G. E. Hatch	14,117	July 24	24	305
Glass flask	C. H. Warner, Jr	13,596	Jan. 16	23	195
Glassware	A. H. Heisey	13,833	Apr. 3	23	1225
Glassware	W. Leighton	14,443	Nov. 27	25	789
Glassware	W. F. Russell	13,645	Feb. 20	23	634
Glove	R. Bartel	14,352	Oct. 23	25	293
Glove-buttoner	C. T. Jones	14,158	Aug. 7	24	499
Grate-bracket	W. J. Irwin	13,666	Feb. 27	23	743
Hand-wheel	L. Bailey	13,621	Feb. 20	23	633
Hand-wheel	A. Y. McDonald	13,673	Feb. 27	23	743
Handkerchief	H. Doherty and J. Wadsworth	13,922	May 22	23	1930
Handkerchief and scarf	E. Jansen	14,339	Oct. 2	25	1
Handle for table-ware	W. B. Durgin	13,983	June 19	23	2329
Hanger	F. Brown	14,139	July 31	24	393
Hardware. Ornamental panels on articles of builders'	G. S. Barkentin	13,568	Feb. 6	23	439
Hardware. Ornamentation of builder's	J. Lochner	13,511	Jan. 2	23	2
Harness-bit	G. F. Eberhard	13,547 to 13,548	Jan. 30	23	347
Harness-bit	A. A. Pope	13,549	Jan. 30	23	347
Harness-bit	J. L. Pope	13,550 to 13,555	Jan. 30	23	347
Harness-trimming	E. N. Crane	13,562	Jan. 30	23	347
Harness-trimming	F. Crane	13,561	Jan. 30	23	347
Harness-trimming	A. Dalton	14,155	Aug. 7	24	499
Harness-trimming	C. F. Waldron	13,559	Jan. 30	23	347
Hat and coat rack	J. R. Palmenberg	14,310	Sept. 18	24	1094
Hat. Lady's	W. R. Warren	13,891	Mar. 27	23	1196
Hinges. Ornamentation of	J. B. Sargent	13,546	Jan. 23	23	274
Hoe	J. Crosley	14,092	July 17	24	207
Hollow, flat, and covered ware	O. Gutherz	14,213	Aug. 21	24	707
Ice-cream mold	L. F. Mazzetti	14,327	Sept. 25	24	1180
Inkstand	A. Cooke, C. W. Schrieber, and J. S. Morgan.	14,425	Nov. 20	25	702
Inkstand	J. Gibbins	13,948	May 29	23	2036
Inkstand	L. B. Gray	13,996	June 19	23	2329
Inkstand	J. Murray	13,851	Apr. 10	23	1340
Jacket. Lady's double-breasted	M. Turner	14,459	Nov. 27	25	790
Jewel or emblem. Masonic	D. W. Laird	14,025	July 3	24	1
Jewelry	E. W. Tuffley	14,012	June 26	23	2415
Jewelry	H. Untermeyer	13,730 to 13,731	Mar. 13	23	942
Jewelry	H. Untermeyer	13,874	Apr. 24	23	1532
Jewelry. Letter for	C. F. Wood	14,248	Aug. 28	24	802
Jewelry. Letter in	C. F. Wood	14,485	Dec. 11	25	984
Jewelry-setting	H. Huestis	14,157	Aug. 7	24	499
Jewelry. Trimming for articles of	H. G. Mackinney	13,836	Apr. 3	23	1225
Jewelry. Trimming for articles of	H. G. Mackinney	13,861	Apr. 17	23	1450
Knife-sharpener	A. C. Kasson	14,303	Sept. 18	24	1093
Knit fabric	S. Condé	14,001 to 14,004	June 26	23	2415
Knit fabric	S. Condé	14,046	July 10	24	103
Knitted overshirt	S. Condé	14,239	Aug. 28	24	801
Lacing-hook	W. F. Foster	13,847	Apr. 10	23	1339
Lacing-hook for gloves	W. F. Foster	13,846	Apr. 10	23	1339
Lamp	H. Berry and K. A. Hathaway	14,594	Dec. 25	25	1194
Lamp and chandelier body	J. and J. A. Kasschau	14,463	Dec. 4	25	885
Lamp-chimney	H. Dietrich	14,373	Oct. 30	25	398
Lamp-chimney	G. Kline	14,167	Aug. 14	24	605
Lamp-chimney	G. A. Macbeth	14,445 to 14,446	Nov. 27	25	789
Lamp, gas, and electric-light globe or shade	W. R. Bates	14,264	Sept. 11	24	997
Lamp. Hanging	W. A. Hull	14,407 to 14,408	Nov. 13	25	604
Lamp. Incandescing electric	T. A. Edison	13,940	May 29	23	2036
Lamp-shade stand. Banner	D. W. Wilkins	14,152	July 31	24	394

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Lamps. Weight for extension	L. F. Griswold	13,968	June 5	23	2123
Letters. Capital	W. S. Dolbey	14,181	Aug. 21	24	707
Letters or alphabet	W. C. Peet	13,677	Feb. 27	23	743
Letters or alphabet	H. L. Reid	13,681	Feb. 27	23	744
Lining. Quilted	A. Beck	14,237	Aug. 28	24	801
Lock case. Hasp	P. O. Snyder	14,434	Nov. 20	25	702
Mallet. Irregular	T. W. Whitacre	14,246	Aug. 28	24	802
Mantel-facing	R. Rossman	13,639	Apr. 3	23	1225
Mat	E. E. and O. H. Widdifield	14,133	July 24	24	306
Match-safe	M. Ehrenreich	14,153	July 31	24	394
Mirror-frame	G. L. Garrigues	13,564	Jan. 30	23	347
Mirror or picture frame	F. G. Newell	14,126	July 24	24	305
Monument	J. and J. Pool	13,543	Jan. 23	23	274
Mug. Beer	O. Osthoff	14,271	Sept. 11	24	997
Musical-instrument case	G. W. Turner	13,603	Feb. 6	23	440
Necktie-fastener	P. M. Melick	13,886	May 1	23	1696
Oil-cans. Casing for glass	F. C. and E. B. Ball	13,806	Mar. 27	23	1125
Oil-cloth	C. T. and V. E. Meyer	13,527 to 13,537	Jan. 16	23	195
Oil-cloth	C. T. and V. E. Meyer	13,730 to 13,736	Mar. 13	23	942
Oil-cloth	C. T. and V. E. Meyer	13,910 to 13,916	May 15	23	1836
Oil-cloth	C. T. and V. E. Meyer	14,396 to 14,401	Nov. 6	25	506
Oil-cloth. Floor	C. T. and V. E. Meyer	14,096 to 14,099	July 17	24	907
Oil-cloth. Floor	C. T. and V. E. Meyer	14,120 to 14,123	July 24	24	305
Oil-cloth. Floor	C. T. and V. E. Meyer	14,227	Aug. 21	24	708
Organ-case	A. Wagner	14,484	Dec. 11	25	984
Organ case. Cabinet	R. F. Meissner	14,069 14,070	July 10	24	103
Ornament for cloaks and other garments	W. Engel	14,005	June 26	23	2415
Overshoe	G. A. Lewis	14,341	Oct. 2	25	2
Overshoes. Ornamentation of	G. Watkinson	14,379	Oct. 23	25	294
Overskirt. Lady's	J. Q. Reed	14,510	Dec. 25	25	1193
Panel	L. De Planque	14,417	Nov. 13	25	604
Paper and cards. Writing	B. A. Hard	14,067	July 10	24	103
Paper-weight	J. A. Prindle	14,146	July 31	24	394
Paper. Writing	G. Sieckenberger	13,819	Mar. 27	23	1196
Parlor ornament	W. H. Hoyt	14,337	Oct. 2	25	1
Pen or pencil holder	P. Schrag	13,618	Feb. 13	23	543
Pen. Writing	G. F. King	14,144	July 31	24	393
Pendant	B. Dreyfus	14,356	Oct. 23	25	293
Pencil	J. Reehower and A. Heck	13,814	Mar. 27	23	1196
Pencil-case	C. W. Livermore	13,519	Jan. 9	23	95
Piano case. Square	A. Kaucher	14,118	July 24	24	305
Picture-frame and easel	W. H. Brownell	14,115	July 24	24	305
Picture-frame molding	E. Fillmann	14,375 14,376	Oct. 30	25	398
Pillow-block	F. Brown	14,138	July 31	24	393
Pitcher	H. Berry and K. A. Hathaway	14,526	Dec. 25	25	1194
Pitcher or other similar vessel	K. L. French	14,235	Aug. 21	24	708
Plaque	W. H. Brownell	13,973	June 12	23	2242
Plaster center-piece	W. F. Kellett	14,006 14,007	June 26	23	2415
Plow point or share	J. W. Lawson	14,095	July 17	24	907
Polonaise. Lady's	C. O'Hara	14,415 14,416	Nov. 13	25	604
Polonaise. Lady's	J. Q. Reed	14,433	Nov. 20	25	702
Pompon	F. Landenberger	14,326	Sept. 25	24	1180
Post-office lock-box door	W. H. Camp	13,962	June 19	23	2339
Printed matter. Background for	A. E. Carpenter	13,609	Feb. 13	23	543
Puff-box	W. H. Brownell	14,016	July 3	24	1
Quilting	L. Shults	14,147	July 31	24	394
Range. Cooking	H. C. Bascom and T. S. Heister	13,973	June 12	23	2242
Revolver charge-cylinder	F. W. Hood	13,824	Mar. 27	23	1196
Rocking-chair	G. J. Shults	14,230	Aug. 21	24	708
Ruffling or collarette	H. Rosenthal	13,617	Feb. 13	23	543
Ruffling or collarette	H. Rosenthal	14,040	July 3	24	2
Ruffling or collarette	H. Rosenthal	14,129	July 24	24	306
Rug	R. P. Hemming	14,377	Oct. 30	25	398
Rug	A. Petzold	14,386 14,387	Oct. 30	25	398
Rug. Chenille	J. Ferguson	14,164 to 14,166	Aug. 14	24	605
Rule. Desk	D. H. Stephens	14,043	July 3	24	2
Satchel	P. W. Lambert	14,168	Aug. 14	24	605
Satchel	I. Wallach	13,994	June 19	23	2339
Sconce-frame	A. Patitz	14,244	Aug. 28	24	802
Sconce-frame	A. Patitz	14,272	Sept. 11	24	997
Screw or clamp. Hand	A. J. Benjamin	13,690	Mar. 6	23	634
Seal-press	R. H. Smith	13,897	May 8	23	1736
Seat-riser	J. L. Pope	14,329	Sept. 25	24	1180
Sewing-machine fly-wheel	J. H. Whitney	14,436	Nov. 20	25	702
Sewing-machines. Ornamentation of	W. Haehnel	13,662	Feb. 27	23	743

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Sewing-machines. Ornamentation of	W. Haehnel	13,876 to 13,879	May 1	23	1626
Sewing-machines. Ornamentation of	W. Haehnel	14,334 14,335	Oct. 2	25	1
Sewing-machine side drawer case and drawer	G. B. Hooper	14,216	Aug. 21	24	707
Sewing-machine table	J. H. Osborn	14,160	Aug. 7	24	499
Sewing-machine table	J. H. Whitney	13,855	Apr. 10	23	1340
Shawl	J. G. Savage	13,864	Apr. 17	23	1450
Shawl. Woven	F. A. Woodhead	14,234	Aug. 21	24	708
Show-case	H. R. Brown	13,521	Jan. 16	23	195
Show-stand	G. E. Cuming	13,856	Apr. 17	23	1449
Skirt. Lady's	C. O'Hara	14,431	Nov. 20	25	702
Skirt. Lady's	C. O'Hara	14,476	Dec. 11	25	983
Skirt. Lady's walking	C. O'Hara	14,381	Oct. 30	25	396
Skirt. Lady's walking	C. O'Hara	14,438	Nov. 20	25	702
Skirt. Lady's walking	C. O'Hara	14,449	Nov. 27	25	789
Skirt. Lady's walking	L. Tully	14,500	Dec. 18	25	1082
Skirt. Miss's walking	L. Tully	14,514	Dec. 25	25	1194
Skirt or other garment	A. Beck	13,865	Apr. 24	23	1531
Skirt. Walking	C. O'Hara	14,412	Nov. 13	25	604
Skirt with sash drapery. Miss's kilt-plaited	J. Q. Reed	14,370	Oct. 23	25	293
Sleigh	W. C. Leach	14,145	July 31	24	394
Sleigh	G. E. Watson	14,109	July 17	24	208
Sleigh knee. Bob	J. Drohan	14,163	Aug. 14	24	605
Sleigh. Landau	J. C. Goold	13,541	Jan. 23	23	274
Smoking-pipe	H. Tibbe	13,999	June 19	23	2329
Soap-cake	B. A. Daland	14,240	Aug. 28	24	802
Soap. Cake or bar	A. Lucy	14,444	Nov. 27	25	789
Sponge-basket	D. Gabay	13,508	Jan. 2	23	1
Spoon and fork handle	A. F. Jackson	14,323	Sept. 25	24	1180
Spoon and fork handle	W. Rogers	14,245	Aug. 28	24	802
Spoon and fork handle	T. Triebel	14,262	Sept. 4	24	903
Spoon-handle	C. Egge	13,613	Feb. 13	23	543
Spoon-handle	A. F. Jackson	13,860	Apr. 17	23	1450
Spoon-handle	G. I. Mix	14,349	Oct. 16	25	195
Spoons, &c. Handle for	T. J. Pairpoint	14,072	July 10	24	103
Spoon or fork handle	M. H. Kinsley	13,835	Apr. 3	23	1225
Spoon or fork handle	T. J. Pairpoint	14,127	July 24	24	305
Spoon or fork handle	W. Rogers	13,838	Apr. 3	23	1225
Spoon or fork handle	A. A. Sperry	14,320	Sept. 18	24	1094
Spoon or fork handle	F. A. Wallace	13,927	May 22	23	1930
Spoon or fork handle	F. Waterhouse	13,961	June 12	23	2242
Stair and room corner-guard	D. C. Hyde	13,797	Mar. 20	23	1036
Statuary. Monumental	M. Muldoon	13,727	Mar. 13	23	942
Steam-engine	A. Rosenkrans	13,616	Feb. 13	23	543
Steam-engine frame	D. N. Melvin	14,411	Nov. 13	25	604
Steam-engine. Upright	J. E. Sweet and M. C. Bullock	13,842	Apr. 3	23	1226
Step-pad	J. L. Pope	13,638 13,639	Feb. 20	23	633
Stocking	J. Füri and J. Rubly	14,018	July 3	24	1
Stove	H. C. Bascom, C. A. Hodges, and T. S. Heister.	13,514	Jan. 9	23	95
Stove	H. C. Bascom and F. Ritchie	13,513	Jan. 9	23	95
Stove	H. C. Bascom and F. Ritchie	13,605	Feb. 13	23	543
Stove	G. O. Bergstrom	13,899	May 15	23	1835
Stove	C. H. Buck, Jr.	13,540	Jan. 23	23	274
Stove	J. Dwyer	13,612	Feb. 13	23	543
Stove	W. L. McDowell	13,719	Mar. 13	23	942
Stove	W. P. Warren	13,604	Feb. 6	23	440
Stove	H. A. Wood	14,161	Aug. 7	24	499
Stove. Coal	H. C. Bascom, C. A. Hodges, and T. S. Heister.	13,917	May 22	23	1929
Stove. Cooking	H. C. Bascom	14,488	Dec. 18	25	1081
Stove. Cooking	H. C. Bascom and C. A. Hodges	13,607	Feb. 13	23	543
Stove. Cooking	H. C. Bascom and C. A. Hodges	14,490 14,491	Dec. 18	25	1081
Stove. Cooking	G. E. Wilbur	13,928	May 22	23	1930
Stove. Globe	H. C. Bascom and C. A. Hodges	14,492	Dec. 18	25	1081
Stove. Heating	H. C. Bascom	14,486 14,487	Dec. 18	25	1081
Stove. Heating	H. C. Bascom and T. S. Heister	13,918	May 22	23	1929
Stove. Heating	H. C. Bascom and F. Ritchie	13,606	Feb. 13	23	543
Stove. Heating	H. C. Bascom, F. Ritchie, and C. A. Hodges.	13,919	May 22	23	1930
Stove. Heating	N. Brayer	13,539	Jan. 23	23	274
Stove. Laundry	J. Ringen	13,728	Mar. 13	23	942
Stove. Oil	R. S. Oliver	14,100	July 17	24	207
Stove. Parlor	H. C. Bascom and F. Ritchie	13,920	May 22	23	1930
Stove. Parlor	H. C. Bascom and C. A. Hodges	14,489	Dec. 18	25	1081
Stove. Parlor	F. Kernan, Jr.	14,008	June 26	23	2415
Support for vases or other articles	F. Ratcliff	13,980	June 12	23	2242
Tapestry or damask	E. G. Nuffer	14,009	June 26	23	2415
Target	J. A. H. Dressel	14,355	Oct. 23	25	293
Tassel for trimming	C. F. Buschner	13,866	Apr. 24	23	1531
Tea-pot	H. Berry and K. A. Hathaway	14,522	Dec. 25	25	1194
Thermometer-holder	C. L. Crear	14,091	July 17	24	207
Toilet-stand	A. Cooke, C. W. Schrieber, and J. S. Morgan.	14,426	Nov. 20	25	702
Toilet-vessel	G. D. Winchell	13,689	Feb. 27	23	744
Toilet ware or vessel	J. P. Eustis	14,439	Nov. 27	25	789
Toy fulminate-exploder	E. L. Morris	13,837	Apr. 3	23	1225
Toy money-box	W. S. Reed	13,969	June 5	23	2123
Toy pistol	G. S. Crosby	13,974	June 12	23	2242

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Toy pistol	C. F. Ritchel	13,815 to 13,816	Mar. 27	23	1196
Toy savings-bank	J. H. Bowen	14,238	Aug. 28	24	801
Trimming	C. M. Gilbert	13,614	Feb. 13	23	543
Trimming	J. H. Horwitz and A. Hepner	14,359	Oct. 23	25	293
Trimming	J. O. Remington	13,544 to 13,545	Jan. 23	23	274
Type	C. J. Cary	14,390	Nov. 6	25	506
Type	J. A. St. John	13,556 to 13,557	Jan. 30	23	347
Type	J. A. St. John	13,729	Mar. 13	23	942
Type	T. W. Winchester	14,403	Nov. 6	25	506
Type. Border for printing	C. Müller	13,850	Apr. 10	23	1340
Type. Font of	W. W. Jackson	13,834	Apr. 3	23	1295
Type. Font of printing	J. M. Conner	13,830	Apr. 3	23	1295
Type. Font of printing	J. M. Conner	13,844	Apr. 10	23	1339
Type. Font of printing	J. M. Conner	14,389	Nov. 6	25	506
Type. Font of printing	J. M. Conner	14,405	Nov. 13	25	604
Type. Font of printing	G. F. Giesecke	13,794 to 13,795	Mar. 20	23	1036
Type. Font of printing	J. Herriet	13,870	Apr. 24	23	1532
Type. Font of printing	C. E. Heyer	13,560	Jan. 30	23	347
Type. Font of printing	C. E. Heyer	14,503	Dec. 25	25	1193
Type. Font of printing	H. Ihlenburg	13,848	Apr. 10	23	1339
Type. Font of printing	H. Ihlenburg	13,859	Apr. 17	23	1450
Type. Font of printing	H. Ihlenburg	13,871 to 13,873	Apr. 24	23	1532
Type. Font of printing	H. Ihlenburg	13,923	May 22	23	1930
Type. Font of printing	H. Ihlenburg	13,950 to 13,951	May 29	23	2036
Type. Font of printing	W. W. Jackson	13,593 to 13,594	Jan. 16	23	195
Type. Font of printing	W. W. Jackson	13,586	Feb. 6	23	439
Type. Font of printing	W. W. Jackson	13,849	Apr. 10	23	1339
Type. Font of printing	W. W. Jackson	14,255	Sept. 4	24	903
Type. Font of printing	W. W. Jackson	14,409 to 14,410	Nov. 13	25	604
Type. Font of printing	A. Little	13,700	Mar. 6	23	834
Type. Font of printing	C. Müller	14,346	Oct. 9	25	98
Type. Font of script printing	W. W. Jackson	14,340	Oct. 2	25	1
Type. Movable	J. A. St. John	14,011	June 26	23	2415
Type ornaments. Printing	H. H. Thorp	13,993	June 19	23	2329
Type-ornaments. Font of	C. E. Heyer	14,336	Oct. 2	25	1
Type-ornaments. Font of	H. Ihlenburg	13,951	May 29	23	2036
Type. Printing	G. Giesecke	13,831	Apr. 3	23	1295
Type. Printing	H. H. Thorp	13,651	Feb. 20	23	634
Type. Printing	H. H. Thorp	14,148 to 14,151	July 31	24	394
Upholstery fabric	D. B. Kerr	13,908	May 15	23	1836
Upholstery fabric	A. Moniot	14,228	Aug. 21	24	708
Upholstery or damask	D. B. Kerr	14,304	Sept. 18	24	1093
Upholstery-trimming	J. C. Copper	13,843	Apr. 3	23	1296
Upholstery-trimming	G. H. Prindle	13,954	May 29	23	2036
Upholstery. Two-ply	D. B. Kerr	13,978	June 12	23	2242
Upholstery. Two-ply	J. E. Kerr	13,979	June 12	23	2242
Upholstery. Two-ply	A. Moniot	14,125	July 24	24	305
Vase	C. Nardini	14,226	Aug. 21	24	708
Vase	W. J. Patterson	13,525	Jan. 16	23	195
Vase	W. Tweeddale	13,619	Feb. 13	23	543
Ventilator or air-grate	W. W. Drummond	14,132	July 24	24	306
Violin-box	W. W. Randall	14,419	Nov. 13	25	604
Wall-hook	E. F. Hotchkiss	13,698	Mar. 6	23	834
Wall-pocket	H. T. Johnson	14,094	July 17	24	207
Watch-cases. Ornamentation of	V. Nivois	13,984	June 19	23	2329
Watch top plate	C. E. Mason	14,427	Nov. 20	25	702
Whiffletree-plate	J. L. Pope	13,518	Jan. 2	23	2
Window-shade pull	C. W. Clark	13,900	May 15	23	1835
Wire handle	W. C. Perkins	14,038	July 3	24	2
Wrap. Lady's	C. O'Hara	14,380	Oct. 30	25	398
Wrap. Lady's	C. O'Hara	14,414	Nov. 13	25	604
Wrap. Lady's	C. O'Hara	14,429	Nov. 20	25	702
Wrap. Lady's	C. O'Hara	14,497	Dec. 18	25	1081
Wrap. Lady's	J. Q. Reed	14,454	Nov. 27	25	790
Wrap. Lady's	M. Turner	14,461	Nov. 27	25	790
Wrapper. Lady's watteau	M. Turner	14,482	Dec. 11	25	984

ALPHABETICAL LIST OF TRADE-MARKS.

Title.	Name.	No.	Date.	Official Gazette. Volume.	Page.
Accordions	F. O. Weidlich	10,234	May 1	23	1626
Agricultural machinery	Russell and Company	10,579	Sept. 11	24	998
Alcohol. Refined wood	Buffalo Alcholene Company	10,130	Mar. 20	23	1036
Alcohol. Wood	American Chemical Company	10,117	Mar. 13	23	942
Ale. Ginger	Bewley & Draper	10,304	May 29	23	2036
Ale. Ginger	Bewley & Draper	10,305	May 29	23	2036
Ale. Ginger	Bewley & Draper	10,306	May 29	23	2036
Ale. Ginger	Sachs, Pruden & Co	10,092	Mar. 6	23	834
Ale. Ginger	Sachs, Pruden & Co	10,093	Mar. 6	23	834
Ale. Ginger	Sachs, Pruden & Co	10,190	Apr. 17	23	1450
Ale, porter, and lager-beer	Beadleston & Woerz	9,928	Jan. 2	23	2
Ales, stouts, and cider	M. B. Foster & Sons	10,164	Apr. 10	23	1340
Alloy of metal	G. A. Dick	10,602	Sept. 25	24	1180
Alloys of copper in the form of sheets, tubing, hollow ware, and cartridge-shells.	Brown & Brothers	10,264	May 15	23	1836
Alum. Concentrated	Harrison Brothers & Co	10,466	July 24	24	306
Articles and preparations for treating and improving the finger-nails, feet, and complexion. Certain	M. E. Pray	10,396	June 5	23	2124
Articles for nursery use. Certain	H. S. Evans	10,393	July 3	24	2
Asphalt pavements	A. L. Barber	10,545	Aug. 28	24	802
Awnings. Blind	F. O. North & Co	10,183	Apr. 10	23	1340
Axes	Johnson Bros. & Leeper	10,131	Mar. 20	23	1036
Axes	H. D. Loveland	10,356	June 19	23	2330
Baking-powder	S. E. Egerton & Co	10,505	Aug. 14	24	606
Baking-powder	B. S. Gilbert & Co	10,224	May 1	23	1626
Baking-powder	Goodall, Backhouse & Co	10,173	Apr. 10	23	1340
Baking-powder	Jaques, Atwood & Co	10,615	Oct. 2	25	2
Baking-powder	Ridenour, Baker & Co	10,197	Apr. 17	23	1450
Baking-powder	Rumford Chemical Works	10,535	Aug. 21	24	708
Baking-powder	Smith, Hanway & Co	10,579	Sept. 4	24	904
Baking-powder and yeast	A. S. Bush	10,383	July 3	24	2
Balm-drops	G. C. Keep	10,229	May 1	23	1636
Base-balls	A. J. Reach & Co	10,662	Oct. 23	25	294
Bats. Base-ball	A. J. Reach & Co	10,663	Oct. 23	25	294
Beer	J. C. Jacobsen	10,347	June 12	23	2242
Beer, ale, porter, and all carbonated beverages	Lighte & Co	10,703	Nov. 6	25	506
Beer, ale, porter, and all carbonated drinks. Bottled	Consolidated Bottling Company	10,265	May 15	23	1836
Beer, ale, stout, and porter	H. Clausen & Son Brewing Company	10,576	Sept. 11	24	998
Beer. Bottled	P. Best Brewing Company	10,258	May 8	23	1736
Beer. Lager	F. Hollender	10,176	Apr. 10	23	1340
Beer. Lager	F. Hollender	10,177	Apr. 10	23	1340
Beer. Lager	F. Hollender	10,178	Apr. 10	23	1340
Beer. Lager	National Lager Beer Bottling Company.	10,531	Aug. 21	24	708
Beer. Lager	J. Ruppert	10,004	Jan. 30	23	348
Beer. Lager	Williamsburgh Brewing Company	10,012	Jan. 30	23	348
Belting. Cotton	M. Gandy	10,303	May 22	23	1930
Belts or bands. Non-elastic	M. Gandy	10,481	Aug. 7	24	500
Beverage. Gentle sparkling liquid used as a	J. A. Lomax	10,311	May 29	23	2036
Beverage containing acid phosphates	W. C. Milburn	10,458	July 24	24	306
Beverages. Sparkling	H. Downes	10,280	May 22	23	1930
Bird-food. Certain mixture for	L. Rosenstein & Co	10,439	July 17	24	208
Biscuit-crackers	J. Hartman	10,623	Oct. 9	25	98
Biscuits	W. G. Wilson	10,027	Feb. 6	23	440
Biscuits	W. G. Wilson	10,152	Mar. 27	23	1126
Biscuits	W. G. Wilson	10,153	Mar. 27	23	1126
Biscuits	W. G. Wilson	10,671	Oct. 23	25	294
Biscuits, crackers, jumbles, snaps, cakes, wafers, and kindred articles.	Hetfield & Ducker	9,986	Jan. 30	23	348
Bitters	T. S. Foote	10,452	July 24	24	306
Bitters	H. Meinhard	10,684	Oct. 30	25	398
Bitters	H. H. Warner	10,687	Oct. 30	25	398
Bitters. Tonic	J. Boyd	10,450	July 24	24	306
Bitters. Tonic	H. H. Warner	10,688	Oct. 30	25	398
Bitters. Tonic	H. H. Warner	10,689	Oct. 30	25	398
Blacking	T. Y. Kelley	10,076	Feb. 27	23	744
Blacking. Boot and shoe	Rothschild Brothers & Co	10,574	Sept. 4	24	904
Blacking. Shoe	A. Fortenbaugh	10,085	Mar. 6	23	834
Blacking. Water-proof polish	A. B. Cumberlege	10,583	Sept. 18	24	1094
Blacking. Water-proof preservative	J. A. & L. N. Van Keuren	10,074	Feb. 27	23	744
Bleaching and dyeing compounds	Wilson Chemical Company	10,363	June 19	23	2330
Blue. Laundry	Fickett & Beal	10,002	Jan. 30	23	348
Blue. Laundry	L. S. Root	9,961	Jan. 16	23	196
Boiler-cleaning compound	T. Baker & Co	9,984	Jan. 30	23	348
Books, letter-headings, envelopes, paper-wrappers, advertising-circulars, pamphlets, &c.	F. A. Davis	9,998	Jan. 30	23	348
Books, pamphlets, catalogues, and miscellaneous publications	J. R. Jones	10,021	Feb. 6	23	440
Boot or shoe shanks and sole-edges. Burnishing ink or blacking for	W. R. Albertson	10,335	June 5	23	2124
Boots. Leather	Levy, Diamant, Oppenheimer & Co	10,120	Mar. 20	23	1036
Boots. Long-legged and ankle	G. L. Kensley	10,728	Nov. 20	25	702

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Pages.
Boots or shoes. Burnishing ink or blacking for	W. R. Albertson	10,332	June 5	23	2194
Boots or shoes. Burnishing ink or blacking for	W. R. Albertson	10,333	June 5	23	2194
Boots or shoes. Burnishing ink or blacking for	W. R. Albertson	10,334	June 5	23	2194
Boots, shoes, and slippers. Women's and children's	Pingree & Smith	10,773	Dec. 11	25	984
Boots, shoes, and slippers. Women's and children's	Pingree & Smith	10,818	Dec. 25	25	1194
Boots, shoes, slippers, and gaiters. Felted-wool	Merino Shoe Company	10,618	Oct. 2	25	2
Boxed cans for oils, varnishes, spirits of turpentine, and other liquids.	C. Burnham & Co	10,745	Nov. 27	25	790
Braids and silk thread. Silk and mohair	W. Skinner & Son	10,405	July 10	24	104
Brandy	J. Hennessy & Co	10,038	Feb. 13	23	544
Brandy	Rouyer, Guillet & Co	10,555	Aug. 28	24	809
Brandy. Kelley's Island grape	Weideman, Holmes & Co	10,052	Feb. 13	23	544
Bread preparation. Self-raising	Rumford Chemical Works	10,536	Aug. 21	24	708
Bricks	I. M. Hedges and G. H. Smith	10,769	Dec. 4	25	886
Burning-fluids	J. G. Gorrell	10,680	Oct. 30	25	398
Butter	Société Générale de Produits Alimentaires.	10,812	Dec. 25	25	1194
Butter	Société Générale de Produits Alimentaires.	10,813	Dec. 25	25	1194
Butter	Wardell, Gunster & Baker	10,132	Mar. 20	23	1036
Butter. Manufactured or artificial	C. A. Watson	10,757	Dec. 4	25	886
Buttons	A. P. Parent	10,213	Apr. 24	23	1532
Buttons	A. P. Parent	10,214	Apr. 24	23	1532
Buttons	A. P. Parent	10,300	May 22	23	1930
Buttons and studs. Sleeve and collar	Cooke & Eddy	10,418	July 10	24	104
Buttons. Sleeve	F. I. Marcy	10,121	Mar. 20	23	1036
Cabs	D. P. Nichols & Co	10,459	July 24	24	306
Calcimine	W. B. Price	10,686	Oct. 30	25	398
Calf-skins, calf-kids, and goat-kid skins	Bittel, Tepel & Eilers	10,263	May 15	23	1836
Candies and sugar toys	C. Grimm & Co	10,270	May 15	23	1836
Canned and pickled meats	H. Verhage	10,129	Mar. 20	23	1036
Canned fruits and vegetables	Reid, Murdoch & Fischer	10,359	June 19	23	2330
Canned fruits and vegetables	Reid, Murdoch & Fischer	10,465	July 24	24	306
Canned fruits, vegetables, and other articles of food	Franco-Californian Packing Company.	10,656	Oct. 23	25	294
Canned goods	G. W. Baker	10,752	Dec. 4	25	886
Canned meat. Packages of	G. E. Greene	10,087	Mar. 6	23	834
Canned or preserved oysters and fish	Tillmann & Bendel	10,391	July 3	24	2
Canned oysters	L. W. Counselman & Co	10,723	Nov. 20	25	702
Canned oysters, fruits, and vegetables	J. S. Gibbs	10,446	July 17	24	908
Canned oysters, fruits, and vegetables	Hall Brothers	9,936	Jan. 9	23	96
Canned provisions	J. O. Schimmel & Co	10,151	Mar. 27	23	1126
Cap for exploding dynamite. Blasting	J. H. Lau	10,628	Oct. 16	25	196
Caps and cartridges, primers, shells, and wads. Pistol or gun	Union Metallic Cartridge Company	10,717	Nov. 13	25	604
Caps and cartridges, primers, shells, and wads. Pistol and gun	Union Metallic Cartridge Company	10,733	Nov. 20	25	702
Caps, cartridges, primers, shells, and wads. Pistol and gun	Union Metallic Cartridge Company	10,748	Nov. 27	25	790
Car-spring. Spiral	French Spiral Spring Company, (limited.)	10,585	Sept. 18	24	1094
Cards for carding cotton	L. S. Watson & Co	9,995	Jan. 2	23	2
Cards. Playing	M. F. Milward	10,712	Nov. 13	25	604
Cards. Playing	New York Consolidated Card Company.	10,501	Aug. 14	24	605
Cards. Playing	New York Consolidated Card Company.	10,502	Aug. 14	24	606
Carpets and rugs. Body-brussels and Wilton	Schofield, Mason & Co	10,400	July 3	24	2
Carpets. Ingrain	R. Carson	10,192	Apr. 17	23	1450
Carpets. Ingrain	R. Huston	10,586	Sept. 18	24	1094
Cement for mending broken articles	Kay Brothers	10,211	Apr. 24	23	1532
Cement. Hydraulic	New York and Rosendale Cement Company.	10,578	Sept. 11	24	998
Cement, plaster, lime, coloring for mortars, and kaolin	W. J. Prentice and G. W. Hackett	10,274	May 15	23	1836
Chains. Ornamental	Davidson Bros	10,384	July 3	24	2
Cheroots, cigars, cigarettes, smoking and chewing tobacco	Goodwin & Co	10,632	Oct. 9	25	98
Cheroots, cigars, cigarettes, and smoking and chewing tobacco.	Goodwin & Co	10,635	Oct. 16	25	196
Cherry-juice	Mayer Brothers & Co	10,077	Feb. 27	23	744
China. Stone	Mellor, Taylor & Co	10,573	Sept. 4	24	904
Chocolate	Menier	10,340	June 5	23	2194
Chocolate	Menier	10,785	Dec. 18	25	1082
Chocolate and cocoa	Runkel Brothers	10,285	May 22	23	1930
Chocolate, broma, and cocoa	H. L. Pierce	10,639	Oct. 16	25	196
Cigarettes	J. Huppmann	10,660	Oct. 23	25	294
Cigarettes	B. L. Livingston	10,593	Aug. 14	24	606
Cigarette-paper	L. Lacroix, Fils	10,095	Mar. 13	23	942
Cigarette-paper	May Brothers	10,198	Apr. 17	23	1450
Cigarettes and cut tobacco	A. Sanderson	10,636	Oct. 16	25	196
Cigarettes and cut tobacco	Sanderson & Co	10,637	Oct. 9	25	98
Cigarettes and cut tobacco	Sanderson & Co	10,664	Oct. 23	25	294
Cigarettes and smoking-tobacco	Compagnie Laferme	10,188	Apr. 10	23	1340
Cigarettes, cigars, and smoking and chewing tobacco	Goodwin & Co	10,802	Dec. 25	25	1194
Cigars	Austin, Nichols & Co	10,685	Oct. 30	25	398
Cigars	M. Entenza	10,491	Aug. 7	24	500
Cigars	F. Garcia, Bro. & Co	10,025	Feb. 6	23	440
Cigars	A. Gordon	10,147	Mar. 27	23	1126
Cigars	A. Gordon	10,492	Aug. 7	24	500
Cigars	J. D. Loomis	10,510	Aug. 14	24	606
Cigars	Lozano, Pendas & Co	9,937	Jan. 9	23	96
Cigars	Lozano, Pendas & Co	10,457	July 24	24	306
Cigars	H. Lutmer	10,530	Aug. 21	24	708
Cigars	L. Marx	10,143	Mar. 27	23	1126
Cigars	L. Marx	10,760	Dec. 4	25	886
Cigars	L. Marx	10,761	Dec. 4	25	886
Cigars	J. W. Peres	10,477	July 31	24	394
Cigars	A. Richtering & Co	10,791	Dec. 18	25	1082

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Cigars	Robbins & Ellicott	10,808	Dec. 25	25	1194
Cigars	J. Sauer	10,049	Feb. 13	23	544
Cigars	C. B. Smith, Jr. & Co	10,496	Aug. 7	24	500
Cigars	Y. P. Stone	10,792	Dec. 18	25	1092
Cigars	Taylor Manufacturing Company	10,705	Nov. 6	25	506
Cigars	C. A. Yale	10,029	Feb. 6	23	440
Cigars and smoking and chewing tobacco	Chamberlin, Dewstoe & Co	10,679	Oct. 30	25	398
Cigars and tobacco	S. W. Allen and J. E. Dunning	10,175	Apr. 10	23	1340
Cigars, cigarettes, and all manufactured tobacco	L. Miller	10,194	Apr. 17	23	1450
Cigars, cigarettes, and chewing and smoking tobacco	Bloch Brothers	10,595	Sept. 25	24	1180
Cigars, cigarettes, and smoking-tobacco	S. Jacoby & Co	10,262	May 8	23	1736
Cigars, cigarettes, and smoking-tobacco	H. M. Morris	10,554	Aug. 28	24	802
Cigars, cigarettes, and smoking-tobacco	Towle, Carle & Co	10,060	Feb. 20	23	634
Cigars, cigarettes, and snuff	M. Strasser & Co	9,948	Jan. 9	23	96
Cigars, cigarettes, chewing and smoking tobacco	Hirschl & Bendheim	10,378	June 26	23	2416
Cigars, cigarettes, smoking and chewing tobacco	Hirschl & Bendheim	10,700	Nov. 6	25	506
Cigars, cigarettes, smoking and chewing tobacco	H. Holsner	9,930	Jan. 2	23	2
Cigars, cigarettes, smoking and chewing tobacco	S. Jacoby & Co	10,493	Aug. 7	24	500
Cigars, cigarettes, smoking and chewing tobacco	Siegel Brothers	10,673	Oct. 23	25	294
Cigars, cigarettes, smoking and chewing tobacco, and snuff	S. Belmont & Son	10,318	May 29	23	2036
Cigars, cigarettes, smoking and chewing tobacco, and snuff	W. R. Johnson, Jr., and C. H. Wray	10,431	July 17	24	208
Cigars. Havana	M. Irrmann	10,682	Oct. 30	25	398
Cigars. Havana	Scott Bros	10,404	July 10	24	104
Cigars, plug, fine-cut, and smoking tobacco	J. B. and D. C. Hitt	10,517	Aug. 14	24	606
Cleaning and polishing jewelry, &c. Preparation for	E. H. Hartshorn	10,329	June 5	23	2124
Cleaning fabrics. Compound for	S. D. Franklin	10,613	Oct. 2	25	2
Clocks	Southern Calendar Clock Company	10,497	Aug. 7	24	500
Clothing. Boys'	A. Shuman & Co	10,637	Oct. 16	25	196
Clothing. Boys'	A. Shuman & Co	10,638	Oct. 16	25	196
Cloths. Cotton and woolen	Pelzer Manufacturing Company	10,561	Aug. 28	24	802
Cocks. Gage	J. Regester & Sons	10,251	May 1	23	1626
Cod-liver oil	Ansar, Harford & Co	9,983	Jan. 30	23	348
Cod-liver-oil cream	A. K. Quinn	9,922	Jan. 2	23	2
Coffee. Roasted	E. Levering & Co	9,974	Jan. 23	23	274
Coffee. Special brand of	J. J. Lawrence	10,729	Nov. 20	25	702
Cologne water, essential oils, extracts, essences, tonics, and articles of this class.	West India Manufacturing Company.	10,463	July 24	24	306
Coloring-matter. Red	I. Levinstein, Campbell & Co	10,357	June 19	23	2330
Confectionery	A. Slauson & Co	10,821	Dec. 25	25	1194
Copper ingots, plates, cakes, or bars. Refined	Ansonia Brass and Copper Company	10,180	Apr. 10	23	1340
Copper ingots, plates, cakes, or bars. Refined	Ansonia Brass and Copper Company	10,181	Apr. 10	23	1340
Cordial	A. Legrand	9,941	Jan. 9	23	96
Cordial	A. Legrand	9,942	Jan. 9	23	96
Cordial	A. Legrand	10,409	July 10	24	104
Cordial	A. Legrand	10,410	July 10	24	104
Cordial	A. Legrand	10,411	July 10	24	104
Cordial	A. Legrand	10,412	July 10	24	104
Cordial	A. Legrand	10,749	Nov. 27	25	790
Cordial	A. Legrand	10,750	Nov. 27	25	790
Cordial	A. Legrand	10,751	Nov. 27	25	790
Cork-wood	H. Bucknall & Sons	10,559	Aug. 28	24	802
Cornets	A. Squire	10,489	Aug. 7	24	500
Corsets	I. W. Birdseye & Co	10,186	Apr. 17	23	1450
Corsets	I. W. Birdseye & Co	10,187	Apr. 17	23	1450
Corsets	J. Bowers	10,744	Nov. 27	25	790
Cosmetic	O. C. Benjamin & Son	10,336	June 5	23	2124
Cosmetics	G. L. Burnside	10,740	Nov. 27	25	790
Cotton drillings and other cotton goods	Appleton Company	10,155	Apr. 10	23	1340
Cotton duck	Brinckerhoff, Turner & Co	10,016	Feb. 6	23	440
Cotton duck	Brinckerhoff, Turner & Co	10,017	Feb. 6	23	440
Cotton duck	Brinckerhoff, Turner & Co	10,018	Feb. 6	23	440
Cotton duck and twines	Gambrill Sons & Co	10,037	Feb. 13	23	544
Cotton-gins	Eagle Cotton Gin Company	10,801	Dec. 25	25	1194
Cotton goods	Nashua Manufacturing Company	10,169	Apr. 10	23	1340
Cotton goods. Certain woven	Mount Vernon Company	10,522	Aug. 14	24	606
Cotton piece-goods	Amoskeag Manufacturing Company.	10,185	Apr. 17	23	1450
Cotton piece-goods	Brinckerhoff, Turner & Co	10,019	Feb. 6	23	440
Cotton piece-goods	Langdon Manufacturing Company	10,137	Mar. 27	23	1126
Cotton sheetings and shirtings	Jackson Company	10,256	May 8	23	1736
Cotton sheetings and shirtings	Jackson Company	10,257	May 8	23	1736
Cotton sheetings, shirtings, and other cotton goods	Appleton Company	10,156	Apr. 10	23	1340
Cotton twine, cod-lines, and carpet-warps	H. Doyle & Co	10,632	Oct. 16	25	196
Cotton twine, cod-lines, and carpet-warps	H. Doyle & Co	10,633	Oct. 16	25	196
Cotton yarns and braids	Dollfus-Mieg & Co	10,631	Oct. 16	25	196
Cough-mixture	Sproat's Syrup of Tar Co	10,644	Oct. 16	25	196
Cough-syrup	J. R. Williams	10,606	Sept. 25	24	1180
Crackers, biscuits, jumbles, snaps, cakes, wafers, and kindred articles.	Hetfield & Ducker	10,346	June 12	23	2242
Crackers. Butter-	Zeller & Co	10,776	Dec. 11	25	984
Crayons. Chalk	Parmenter Crayon Company	10,154	Apr. 3	23	1226
Cure for the opium habit	Erwin, Gayden & Yongue	10,250	May 1	23	1626
Cutlery	G. V. Brecht	10,344	June 12	23	2242
Cutlery and edge-tools	Fones Brothers	10,771	Dec. 11	25	984
Cutlery and edge-tools of every kind	Hale Brothers	10,560	Aug. 28	24	802
Cutting and drilling tools	Morse Twist Drill and Machine Company.	10,389	July 3	24	2
Dates	Gray, Dawes & Co	10,355	June 19	23	2330
Dentifrice	R. Fingerhut	10,063	Feb. 20	23	634
Dentrifrices	Sues, (The Firm of,)	10,473	July 31	24	394
Dentrifrices	Sues, (The Firm of,)	10,474	July 31	24	394
Deviled entremets	W. J. Underwood	10,051	Feb. 13	23	544
Diamond-setting	Falkenau, Oppenheimer & Co	10,721	Nov. 20	25	702
Diphtheria remedy	N. Lacerte	10,587	Sept. 18	24	1094

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Door-checks. Pneumatic	Norton Door Check and Spring Company.	10,589	Sept. 18	24	1094
Dress-shields	I. A. Canfield Company	10,253	May 8	23	1736
Drilling-machines	D. Slate	9,938	Jan. 9	23	96
Drugs and chemicals	Burroughs, Wellcome & Co	9,934	Jan. 9	23	95
Drugs and chemicals	Burroughs, Wellcome & Co	9,935	Jan. 9	23	95
Drugs and chemicals	C. Lowe & Co	10,104	Mar. 13	23	942
Dry-goods. Certain	Burke, Walker & Co	10,469	July 31	24	394
Dyes	F. A. Ransom	10,283	May 22	23	1930
Dyes	Wells, Richardson & Co	10,072	Feb. 27	23	744
Dyes for tissues	A. Meunier & Co	9,981	Jan. 23	23	274
Dyspepsia. Remedy for	J. S. Hall & Co	10,308	May 29	23	2036
Earthenware, iron-stone china, black luster, and fancy-colored stoneware.	Edge, Malkin & Co	10,710	Nov. 13	25	604
Edge-tools. Certain	Collins Company	9,956	Jan. 16	23	196
Edge tools. Certain	Les Fils de Peugeot Frères	10,375	June 26	23	2416
Electric machines. Dynamo and magneto	J. B. Tibbits	10,275	May 15	23	1836
Electro-plated wares	W. Wilson & Son	9,950	Jan. 9	23	96
End-gates. Wagon	H. H. Perkins	10,140	Mar. 27	23	1126
Extracts of tropical fruits. Compounded	G. Simmonds	10,799	Dec. 18	25	1082
Fencing. Barbed-wire	Thorn Wire Hedge Company	10,233	May 1	23	1626
Fertilizers	Common Sense Fertilizer Company	10,621	Oct. 9	25	98
Fertilizers	I. E. & L. S. Hoopes	9,959	Jan. 16	23	196
Fertilizers	I. E. & L. S. Hoopes	9,960	Jan. 16	23	196
Fertilizers	Jarvis & Hooper	10,507	Aug. 14	24	606
Fertilizers	Imperial Guano Company	10,057	Feb. 20	23	634
Fertilizers	Patapsco Guano Company	10,230	May 1	23	1626
Fertilizers	Patapsco Guano Company	10,231	May 1	23	1626
Files	C. F. Butcher	10,422	July 17	24	206
Files, edge-tools, razors, and cutlery	C. F. Butcher	10,596	Sept. 25	24	1180
Files, edge-tools, razors, and cutlery	C. F. Butcher	10,597	Sept. 25	24	1180
Filters. Domestic	Stoddard Lock Company	10,149	Mar. 27	23	1126
Filters. Water	McBride & Co	10,312	May 29	23	2036
Fire-works	Unexcelled Fireworks Company	10,814	Dec. 25	25	1194
Fish-hooks	R. Harrison, Bartleet & Co	10,135	Mar. 27	23	1126
Fish-hooks and fishing-tackle	R. Harrison, Bartleet & Co	10,189	Apr. 17	23	1450
Fish. Various preparations and compounds of	H. Reessing	10,284	May 22	23	1930
Flour	J. Amos & Sons	10,080	Mar. 6	23	834
Flour	J. Amos & Sons	10,081	Mar. 6	23	834
Flour	J. Amos & Sons	10,082	Mar. 6	23	834
Flour	J. Amos & Sons	10,083	Mar. 6	23	834
Flour	J. Amos & Sons	10,084	Mar. 6	23	834
Flour	J. Amos & Sons	10,133	Mar. 27	23	1126
Flour	Barbour & Hamilton	10,364	June 26	23	2415
Flour	Barbour & Hamilton	10,565	Sept. 4	24	903
Flour	T. G. Bush & Co	10,398	July 3	24	2
Flour	D. De Castro & Co	9,999	Jan. 30	23	348
Flour	Fitzsimmons & Kreider	10,506	Aug. 14	24	606
Flour	J. F. Imbs & Co	10,255	May 8	23	1736
Flour	Joseph & Anderson	10,455	July 24	24	306
Flour	Joseph & Anderson	10,456	July 24	24	306
Flour	W. & A. Leaman	10,184	Apr. 10	23	1340
Flour	B. R. Pegram, Jr	10,042	Feb. 13	23	544
Flour	B. R. Pegram, Jr	10,043	Feb. 13	23	544
Flour	B. R. Pegram, Jr	10,044	Feb. 13	23	544
Flour	B. R. Pegram, Jr	10,045	Feb. 13	23	544
Flour	B. R. Pegram, Jr	10,046	Feb. 13	23	544
Flour	B. R. Pegram, Jr	10,047	Feb. 13	23	544
Flour	Tellado, Giberga & Co	10,714	Nov. 13	25	604
Flour	Tellado, Giberga & Co	10,715	Nov. 13	25	604
Flour	Van Gundy, Constant & Co	10,718	Nov. 13	25	604
Flour. Buckwheat	H. A. & H. D. Bogardus	10,287	May 22	23	1930
Flour. Patent-process	W. M. Galt & Co	10,313	May 29	23	2036
Flour. Patent-process	W. M. Galt & Co	10,314	May 29	23	2036
Flour. Wheat	H. C. Cole & Co	10,598	Sept. 25	24	1180
Flour. Wheat	H. C. Cole & Co	10,599	Sept. 25	24	1180
Flour. Wheat	H. C. Cole & Co	10,600	Sept. 25	24	1180
Flour. Wheat	H. B. Crosby & Son	10,112	Mar. 13	23	942
Flour. Wheat	E. S. Gilmore	10,036	Feb. 13	23	544
Flour. Wheat	Kelley & Lysle	10,484	Aug. 7	24	500
Flour. Wheat	Kelley & Lysle	10,521	Aug. 14	24	606
Flour. Wheat	Lawton Brothers	10,058	Feb. 20	23	634
Flour. Wheat	S. O. Ryder	9,964	Jan. 16	23	196
Flour. Wheat	E. O. Stanard & Co	9,947	Jan. 9	23	96
Flour. Wheat	E. O. Stanard & Co	10,397	July 3	24	2
Flour. Wheat	E. O. Stanard & Co	10,443	July 17	24	208
Food for invalids and infants. Prepared	G. Mellin	10,806	Dec. 25	25	1194
Forgings and articles made therefrom. Drop	Williams & Diamond	10,235	May 1	23	1626
Garters	L. D. Minor and C. J. Haley	10,388	July 3	24	2
Gin	Adams, Taylor & Co	10,030	Feb. 13	23	544
Gin	H. Bohlen & Co	9,920	Jan. 2	23	2
Gin	J. De Kuyper & Son	10,490	Aug. 7	24	500
Gin, rum, brandy, whisky, and foreign and domestic wines	J. Miller & Co	10,488	Aug. 7	24	500
Glass table-ware and fancy articles	F. S. Shirley	10,011	Jan. 30	23	348
Glucose	Glen Cove Manufacturing Company	10,373	June 26	23	2416
Glucose	Glen Cove Manufacturing Company	10,374	June 26	23	2416
Glucose	Glen Cove Manufacturing Company	10,482	Aug. 7	24	500
Glucose	Glen Cove Manufacturing Company	10,483	Aug. 7	24	500
Glue	B. Cannon & Co	10,279	May 22	23	1930
Glue	E. Cannon & Sons	10,299	May 22	23	1930
Glue. Machine	C. H. and E. A. J. Manneck	10,722	Nov. 20	25	702
Grease-extractors	J. Wiweke	10,794	Dec. 18	25	1082
Gum. Chewing	S. Coleman	10,649	Oct. 23	25	294
Hair-elixir	W. Lasson	10,617	Oct. 2	25	2

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Hair preparation	J. C. Ayer Company	10,692	Nov. 6	25	506
Hair-renewer. Vegetable Sicilian	J. C. Ayer Company	10,558	Aug. 28	24	802
Hair restorer and invigorator	B. J. Kendall & Co	10,569	Sept. 4	24	904
Hair-restoratives	J. A. Shattuck	9,966	Jan. 16	23	196
Hair waves	M. E. Thompson	10,768	Dec. 4	25	886
Ham, bacon, and lard	H. Denny & Sons	9,979	Jan. 23	23	274
Ham, bacon, and lard	H. Denny & Sons	10,290	May 22	23	1930
Ham, bacon, and lard	H. Denny & Sons	10,601	Sept. 25	24	1180
Hamburg edgings, Swiss embroideries, and like fabrics	M. Guggenheim's Sons	10,367	June 26	23	2416
Hardware. Saddlery-	North & Judd Manufacturing Company.	10,762	Dec. 4	25	886
Harmonicas	W. Tonk & Bro	10,541	Aug. 21	24	708
Healing-balm for chapped hands	A. J. Kaercher	10,796	Dec. 18	25	1082
Hermetically-sealed vegetables, fruits, oysters, fish, meats, &c.	F. H. Siewerd & Bro	10,195	Apr. 17	23	1450
Hoes	Iowa Farming Tool Company	10,726	Nov. 20	25	702
Hop substitute	P. Müller	10,199	Apr. 17	23	1450
Horse-powers	M. Harder	10,295	May 1	23	1626
Horseshoe-nails	Ausable Horse Nail Company	10,676	Oct. 30	25	398
Hosiery	G. Hecker und Soehne	10,354	June 19	23	2330
Hydrocarbon fluid	Hopkins and Milnor	10,254	May 8	23	1736
Implements. Certain agricultural	Collins Company	10,006	Jan. 30	23	348
Ink. Writing-	Carter, Dinsmore & Co	10,099	Mar. 13	23	942
Ink. Writing-	Carter, Dinsmore & Co	10,101	Mar. 13	23	942
Inks. Lithographic	R. Mayer & Co	9,988	Jan. 30	23	348
Insulated electric conductors	Ansonia Brass and Copper Company	10,720	Nov. 20	25	702
Iron and steel. Sheet	Republic Iron Works	10,790	Dec. 18	25	1082
Isinglass. American	A. Loos	10,730	Nov. 20	25	702
Ivory. Zylonite	American Zylonite Company	10,564	Sept. 4	24	903
Knit woolen goods. Fulled	C. E. Wakeman & Co	10,362	June 19	23	2330
Knives, forks, and spoons	L. F. Dunn	10,765	Dec. 4	25	886
Lace goods	A. G. Jennings & Sons	10,238	May 1	23	1626
Lamp-chimneys	G. A. Macbeth & Co	10,653	Oct. 23	25	294
Lamp-chimneys and lantern-globes	G. A. Macbeth & Co	10,652	Oct. 23	25	294
Lard	J. Agostini	10,655	Oct. 23	25	294
Lard	Chamberlain, Roe & Co	10,656	Oct. 23	25	294
Lard	Chamberlain, Roe & Co	10,657	Oct. 23	25	294
Lard	G. P. Napheys & Son	10,078	Feb. 27	23	744
Lard-packages	Menacho, Puig & Co	10,040	Feb. 13	23	544
Lard-packages	Menacho, Puig & Co	10,041	Feb. 13	23	544
Lard-packages	Menacho, Puig & Co	10,065	Feb. 20	23	634
Lard. Refined	N. K. Fairbank & Co	10,162	Apr. 10	23	1340
Lard. Refined	N. K. Fairbank & Co	10,163	Apr. 10	23	1340
Laxative	F. B. Kilmer and J. C. Higgins	10,309	May 29	23	2036
Leather. Certain kinds and articles of	Page Belting Company	10,348	June 12	23	2242
Leather. Harness-	Woelfel & Linke	9,927	Jan. 2	23	2
Leather. Kid-	A. H. Reitlinger	10,550	Aug. 28	24	802
Lemons and oranges	A. Minaldi & Co	9,923	Jan. 2	23	2
Licorice-paste	D. V. Arguimbau	10,109	Mar. 13	23	942
Licorice-paste	D. V. Arguimbau	10,111	Mar. 13	23	942
Licorice-paste in sticks	D. V. Arguimbau	10,110	Mar. 13	23	942
Lime-juice. Various preparations of	L. Rose & Co	9,965	Jan. 16	23	196
Liniment	C. F. Barnes	10,407	July 10	24	104
Liniment	J. W. Billington	10,146	Mar. 27	23	1126
Liniment	F. E. Copp	10,519	Aug. 14	24	606
Liniment	M. C. Corbitt	10,609	Oct. 2	25	2
Liniment	S. M. Gaylord	10,125	Mar. 20	23	1036
Liniment	Hamlin's Wizard Oil Company	10,141	Mar. 27	23	1126
Liniment	W. J. Nelson	10,215	Apr. 24	23	1532
Liniment	P. G. Schuh	10,514	Aug. 14	24	606
Liniment for external and internal use	C. A. Vogeler Company	10,719	Nov. 13	25	604
Liniment for internal and external use	C. A. Vogeler Company	10,116	Mar. 13	23	942
Liniment for man and beast	J. Quinlan	10,590	Sept. 18	24	1094
Liniment. Horse-	P. P. Mesler & Co	10,139	Mar. 27	23	1126
Liniment. Oil	J. H. Hess & Co	10,766	Dec. 4	25	886
Liniment to be used externally for the destruction of all kinds of parasites on stock and poultry and for healing the wounds caused by the same.	T. L. Miller	10,476	July 31	24	394
Liquors and cordials	A. V. Ardura	10,675	Oct. 30	25	398
Liquors. Certain table-	J. Berger	10,445	July 17	24	208
Lithogen and silicate paints, and preparations composed more or less of ground silex, as coverings for metals and wood.	Bridgeport Wood Finishing Company.	10,123	Mar. 20	23	1036
Lozenges	T. Keating	9,987	Jan. 30	23	348
Lozenges	A. Slauson & Co	10,809	Dec. 25	25	1194
Lozenges	A. Slauson & Co	10,810	Dec. 25	25	1194
Lozenges	A. Slauson & Co	10,811	Dec. 25	25	1194
Lozenges	A. Slauson & Co	10,819	Dec. 25	25	1194
Lozenges	A. Slauson & Co	10,820	Dec. 25	25	1194
Lubricants	Leib Lubricating Company	10,113	Mar. 13	23	942
Lubricants or oils for journal-bearings	Johns, Thompson & Co	9,939	Jan. 9	23	96
Lubricating compound	Bliven & Carrington	10,223	May 1	23	1626
Lubricating material	R. K. Remington	10,438	July 17	24	208
Lumber in logs, boards, and staves	A. Brown	10,417	July 10	24	104
Malt extract	Loeflund & Co	10,219	Apr. 24	23	1532
Malt liquors	H. Clausen & Son Brewing Company	10,370	June 26	23	2416
Matches. Safety-	Vulcan Tändsticksfabriks Aktiebolaget.	10,351	June 12	23	2242
Meat extract	R. W. Anderson	10,571	Sept. 4	24	904
Meats. Certain cured	E. S. Kibbe and C. P. Robinson	9,951	Jan. 9	23	96
Medical and chemical preparations	W. H. Woodcock	10,580	Sept. 11	24	998
Medical and chemical preparations for the treatment and cure of human diseases.	Déclat Manufacturing Company	10,337	June 5	23	2124
Medical appliances. Certain electric	G. J. Baker	10,413	July 10	24	104
Medical capsules	J. Ferré	10,742	Nov. 27	25	790
Medical compound. Certain	J. M. Baker	10,707	Nov. 13	25	604

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Medical compound. Certain	World's Dispensary Medical Association.	10,191	Apr. 17	23	1450
Medical compound for diseases of the skin	P. A. Andrese	10,067	Feb. 27	23	744
Medical compound for the cure of pain and inflammation	H. R. Stevens	10,221	Apr. 24	23	1532
Medical compound for the cure of pain and inflammation	H. R. Stevens	10,222	Apr. 24	23	1532
Medical preparations. Certain	J. C. Ayer Company	10,556	Aug. 28	24	802
Medical preparations for horses. Certain	J. R. Williams	10,518	Aug. 14	24	606
Medical preparations for the cure of diseases of the genital organs.	J. Ferré	10,743	Nov. 27	25	790
Medical remedy for the diseases of women	J. S. Hall & Co	10,307	May 29	23	2036
Medical tea	A. Sicre	10,106	Mar. 13	23	942
Medicinal and other uses. Certain composition of petroleum and mustard-seed oil for	G. F. Senter	10,563	Aug. 28	24	802
Medicinal compound for the cure of scrofula and the like diseases.	H. R. Stevenson	10,468	July 24	24	306
Medicinal preparation	G. L. Beck	10,260	May 8	23	1736
Medicinal preparation	Tilden & Co	10,504	Aug. 14	24	606
Medicinal preparation for external and internal pain	W. M. Pitts	10,088	Mar. 6	23	834
Medicinal preparation for external and internal use	C. B. Colwell	10,302	May 22	23	1930
Medicinal preparation for horses, cattle, and other animals. Certain	S. E. Tompkins	10,128	Mar. 20	23	1036
Medicinal preparation known as wheat, lime, and rye	Cook & Bernheimer	10,640	Oct. 16	25	196
Medicinal preparations	Dr. D. Jayne & Son	10,553	Aug. 28	24	802
Medicinal preparations. Homeopathic	C. T. Hurlburt	10,725	Nov. 20	25	702
Medicinal specific for neuralgia	Allen & Hanburys	10,342	June 12	23	2242
Medicinal substance	E. C. Colgan & Co	10,206	Apr. 24	23	1532
Medicated toilet compound	A. Simonson	10,774	Dec. 11	25	984
Medicine. Cathartic	Francis Brothers	10,261	May 8	23	1736
Medicine. Certain proprietary	C. G. Garrison	10,538	Aug. 21	24	708
Medicine. Certain proprietary	R. K. Graham	10,641	Oct. 16	25	196
Medicine. Certain proprietary	C. A. Higgins	10,681	Oct. 30	25	398
Medicine. Certain proprietary	National Herbal Cure Company	10,549	Aug. 28	24	802
Medicine. Certain proprietary	H. H. Warner	10,645	Oct. 16	25	196
Medicine. Certain proprietary	P. M. Way	10,690	Oct. 30	25	398
Medicine. Cholera	Duffield & Moll	10,584	Sept. 18	24	1094
Medicine containing sarsaparilla. Proprietary	J. C. Ayer Company	10,694	Nov. 6	25	506
Medicine. Cough	F. S. Stevens	10,327	June 5	23	2134
Medicine for affections of the lungs and throat. Proprietary	J. C. Ayer Company	10,693	Nov. 6	25	506
Medicine for constipation	C. L. Topliff	10,793	Dec. 18	25	1082
Medicine for external and internal use	C. A. Vogeler Company	10,325	June 5	23	2128
Medicine for malarial diseases. Proprietary	J. C. Ayer Company	10,691	Nov. 6	25	506
Medicine for nervous and other diseases	G. W. Bible	10,319	May 29	23	2036
Medicine for neuralgia, rheumatism, gout, and kindred diseases.	H. Berbenich	10,699	Nov. 6	25	506
Medicine for the cure of coughs, colds, and diseases of the throat and lungs.	S. R. Scoggins	9,982	Jan. 23	23	274
Medicine for the cure of pulmonary and throat diseases	A. R. Mettee	9,980	Jan. 23	23	274
Medicine for the prevention and cure of chills and fever and malarial diseases.	A. Kirkpatrick & Co	10,500	Aug. 14	24	605
Medicine for the treatment of the diseases of the genital organs.	J. Ferré	10,741	Nov. 27	25	790
Medicine in the form of pills. Proprietary	J. C. Ayer Company	10,698	Nov. 6	25	506
Medicine. Proprietary	F. F. Berger	10,478	Aug. 7	24	499
Medicine. Proprietary	Craig Kidney Cure Co	10,188	Apr. 17	23	1450
Medicine. Proprietary	L. B. Hubbell	9,992	Jan. 16	23	196
Medicine. Proprietary	H. A. Ingham	10,196	Apr. 17	23	1450
Medicine. Proprietary	H. A. Ingham	10,210	Apr. 24	23	1532
Medicine. Proprietary	E. H. Kaercross	10,520	Aug. 14	24	606
Medicine. Proprietary	S. T. W. Sanford & Sons	10,368	June 26	23	2416
Medicine. Proprietary	R. E. Sellers & Co	10,643	Oct. 16	25	196
Medicine. Sheep	C. E. Williams & Co	10,646	Oct. 16	25	196
Medicines. Certain proprietary fluid	J. C. Mendenhall	10,651	Oct. 23	25	294
Medicines. Chill, fever, and ague	W. J. W. Kerr & Son	10,754	Dec. 4	25	886
Metal. Pigs of Babbitt	Granular Metal Company	10,614	Oct. 2	25	2
Milk. Condensed	New York Condensed Milk Company.	10,511	Aug. 14	24	606
Milk. Condensed	New York Condensed Milk Company.	10,512	Aug. 14	24	606
Milk. Condensed or concentrated	H. Y. Canfield	10,746	Nov. 27	25	790
Mineral water	B. Stern & Co	10,696	Nov. 6	25	506
Mineral water and natural spring waters	Lighte & Brother	10,486	Aug. 7	24	500
Mineral waters	J. L. Lockwood	10,432	July 17	24	208
Mineral waters. Artificial	C. Matthes	10,798	Dec. 18	25	1082
Mineral waters. Natural	F. Hollender	10,179	Apr. 10	23	1340
Mineral waters. Natural	H. Löhr	10,168	Apr. 10	23	1340
Mineral waters. Natural	Luyties Brothers	10,487	Aug. 7	24	500
Mirrors	P. Wiederer	10,089	Mar. 6	23	834
Mixtures. Anti-rheumatic	S. J. Imperatori	10,472	July 31	24	394
Molded articles to resemble glass, such as tiles, plaques, hearths, table-tops, &c.	E. Rosenzi	10,381	June 26	23	2416
Moldings. Ornamental	Fillmann & Co	10,408	July 10	24	104
Moth and insect exterminator	H. S. Danziger	10,033	Feb. 13	23	544
Mucilage	Carter, Dinsmore & Co	10,100	Mar. 13	23	942
Mucilage	Carter, Dinsmore & Co	10,102	Mar. 13	23	942
Musical instruments	J. H. Foote	10,552	Aug. 28	24	802
Musical instruments. Certain	P. Goumas & Co	10,366	June 26	23	2416
Mustard	Wolff & Reessing	10,108	Mar. 13	23	942
Needles	T. H. Harper	10,166	Apr. 10	23	1340
Needles. Sewing	J. Smith & Son	9,931	Jan. 2	23	2
Needles. Sewing	J. Smith & Son	10,066	Feb. 20	23	634
Nets	A. G. Jennings & Sons	10,395	July 3	24	2
Nets and lace goods	A. G. Jennings & Sons	10,239	May 1	23	1626
Nets and lace goods	A. G. Jennings & Sons	10,240	May 1	23	1626
Nets and other reticulated fabrics. Hair	A. G. Jennings & Sons	10,241	May 1	23	1626
Nets and other reticulated fabrics. Hair	A. G. Jennings & Sons	10,566	Sept. 4	24	904
Nets and other reticulated fabrics. Hair	A. G. Jennings & Sons	10,567	Sept. 4	24	904

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Nets and other reticulated fabrics. Hair	A. G. Jennings & Sons	10,568	Sept. 4	24	904
Nets and reticulated fabrics. Hair	A. G. Jennings & Sons	10,727	Nov. 20	25	702
Oars, sweeps, sculls, and handspikes	New York Boat Oar Company	10,467	July 24	24	306
Oil. Burning	Red C Oil Manufacturing Company	9,952	Jan. 9	23	96
Oil. Cod-liver	T. P. Hogg	10,228	May 1	23	1626
Oil-finish	R. M. Breinig	10,402	July 10	24	104
Oil. Illuminating	Coombs, Crosby & Eddy	9,970	Jan. 23	23	274
Oil. Lubricating	Johns, Thompson Company	10,797	Dec. 18	25	1062
Oil. Petroleum or kerosene	Tillmann & Bendel	10,392	July 3	24	2
Oil. Refined petroleum	Chester Oil Company	10,236	May 1	23	1626
Oils. Lubricating	Bliven & Carrington	10,103	Mar. 13	23	942
Oils. Lubricating	Brooks Oil Company	10,013	Feb. 6	23	440
Oils. Lubricating	Leib Lubricating Company	10,114	Mar. 13	23	942
Oils, pigments, varnishes, driers, primers, and the like	R. M. Breinig	10,353	June 19	23	2330
Oils to prevent rust, tarnish, or verdigris	Hopkins, Rossell & Co	10,070	Feb. 27	23	744
Optical goods. Certain	J. B. Jacquemin Frères	10,430	July 17	24	208
Organs. Reed	J. Bellak	9,967	Jan. 16	23	196
Organs. Reed	J. Bellak	10,061	Feb. 20	23	634
Organs. Reed	J. Bellak	10,062	Feb. 20	23	634
Overalls, shirts, underwear, pants, suspenders, and collars	H. Exstein & Co	10,268	May 15	23	1836
Overalls, shirts, underwear, pants, suspenders, and collars	H. Exstein & Co	10,269	May 15	23	1836
Oxygen and inhaler. Compound	G. R. Starkey and G. E. Palen	10,449	July 17	24	208
Oysters	J. W. Boyle	10,708	Nov. 13	25	604
Ozone-water. Concentrated	Chemical Ozone Manufacturing Company.	9,968	Jan. 16	23	196
Paint. Fire and water proof	H. E. Rowe	10,461	July 24	24	306
Paint. Roofing	A. F. and G. W. Hawthorn	10,136	Mar. 27	23	1126
Paints and dyes	A. M. Meincke	10,009	Jan. 30	23	348
Paints and oils	Mound City Paint & Color Company	10,243	May 1	23	1626
Paints, wood-fillers, clays, ochers, &c	Saint Louis Paint Manufacturing Company.	10,048	Feb. 13	23	544
Paper and envelopes of all kinds. Writing	Z. Crane, Jr., & Bro	10,650	Oct. 23	25	294
Paper boxes	G. W. Plumly & Son	10,654	Oct. 23	25	294
Paper pails	Coats & Evans	10,608	Oct. 2	25	2
Paper. Wrapping	J. A. Dushane	9,985	Jan. 30	23	348
Paper. Writing	Blanchet Frères et Kléber	10,415	July 10	24	104
Paper. Writing	Blanchet Frères et Kléber	10,416	July 10	24	104
Paper. Writing	Carter, Rice & Co. Corporation	10,800	Dec. 25	25	1194
Parasols and umbrellas	F. Revel, Père & Fils	10,376	June 26	23	2416
Pencils. Lead	Gilbert & Co	10,782	Dec. 18	25	1062
Pencils. Lead	Gilbert & Co	10,783	Dec. 18	25	1062
Pens. Metallic	Esterbrook Steel Pen Manufacturing Company.	10,157	Apr. 10	23	1340
Pens. Metallic	Esterbrook Steel Pen Manufacturing Company.	10,158	Apr. 10	23	1340
Pens. Metallic	Esterbrook Steel Pen Manufacturing Company.	10,159	Apr. 10	23	1340
Pens. Metallic	Esterbrook Steel Pen Manufacturing Company.	10,160	Apr. 10	23	1340
Pens. Metallic	Esterbrook Steel Pen Manufacturing Company.	10,161	Apr. 10	23	1340
Pens. Metallic	Esterbrook Steel Pen Manufacturing Company.	10,603	Sept. 25	24	1180
Pens. Metallic	Esterbrook Steel Pen Manufacturing Company.	10,604	Sept. 25	24	1180
Pens. Steel	J. Gillott & Sons	10,426	July 17	24	208
Pens. Steel	J. Gillott & Sons	10,427	July 17	24	208
Pens. Steel	J. Gillott & Sons	10,428	July 17	24	208
Pens. Steel	J. Gillott & Sons	10,429	July 17	24	208
Perfumery	H. Tetlow & Bro	10,107	Mar. 13	23	942
Perfumery and perfumed articles for the toilet	Piesse & Lubin	10,807	Dec. 25	25	1194
Perfumery and toilet articles	F. Prot & Co	10,419	July 10	24	104
Perfumery and toilet articles	West India Manufacturing Company.	10,196	Mar. 20	23	1036
Perfumery and toilet articles	West India Manufacturing Company.	10,127	Mar. 20	23	1036
Perfumery, toilet-powder, and cosmetics	Lazell, Marsh & Gardiner	10,702	Nov. 6	25	506
Perfumery and toilet preparations	West India Manufacturing Company.	10,053	Feb. 13	23	544
Perfumery and toilet preparations	West India Manufacturing Company.	10,054	Feb. 13	23	544
Perfumery and toilet preparations	West India Manufacturing Company.	10,055	Feb. 13	23	544
Perfumery, creams, dentifrice, hair-oils, and analogous articles used in toilet preparations.	A. Raynaud	10,352	June 12	23	2242
Petroleum. Refined	Mayer Brothers & Co	10,577	Sept. 11	24	998
Petroleum. Refined	Meissner, Ackermann & Co	10,387	July 3	24	2
Phenol	H. Closire	9,996	Jan. 30	23	348
Pianos. Diminutive upright	G. Steck	10,674	Oct. 23	25	294
Picks and other adz-eye tools	Washoe Manufacturing Company	10,775	Dec. 11	25	984
Pickles, vinegar, sauces, catsups, prepared horse-radish, prepared mustard, preserves, jellies, marmalades, jams, and fruit-butters.	F. & J. Heinz	10,119	Mar. 20	23	1036
Pills	J. C. Ayer Company	10,557	Aug. 28	24	802
Pills	Elnain & Co	10,451	July 24	24	306
Pills	P. Neustaedter & Co	9,973	Jan. 23	23	274
Pills. Liver	J. W. Angell	10,015	Feb. 6	23	440
Pins	Plume & Atwood Manufacturing Company.	10,436	July 17	24	208
Pins	Plume & Atwood Manufacturing Company.	10,437	July 17	24	208
Pins, rings, chains, bracelets, brooches, drops, &c	F. S. Draper	10,770	Dec. 11	25	984
Pipes. Corn-cob	H. Tibbe, Son & Co	9,975	Jan. 23	23	274
Plaster. Curative	G. L. Burnside	10,709	Nov. 13	25	604

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Plastic material composed in part of pyroxyline	Celluloid Manufacturing Company	9,971	Jan. 23	23	274
Plows and analogous implements	Collins Company	9,953	Jan. 16	23	195
Plows and analogous implements	Collins Company	9,957	Jan. 16	23	196
Pomades	R. Prud'homme	10,349	June 12	23	2242
Pomatum, scented liquids, powders, hair-oils, and cosmetics	Soubiran & Co	10,341	June 5	23	2134
Pop-corn. Sugar-coated	G. E. Clark	10,735	Nov. 20	25	702
Porcelain, earthenware, and glassware	Haviland & Co	10,525	Aug. 21	24	707
Porcelain, earthenware, and glassware	Haviland & Co	10,526	Aug. 21	24	707
Porcelain, earthenware, and glassware	Haviland & Co	10,527	Aug. 21	24	708
Porcelain, earthenware, and glassware	Haviland & Co	10,528	Aug. 21	24	708
Porcelain-ware	A. Hamann	10,282	May 22	23	1930
Pottery of all kinds	J. Wedgewood & Sons	10,537	Aug. 21	24	708
Pottery of every description	Mintons	10,588	Sept. 18	24	1094
Powder. Sporting	W. R. Burkhard	10,787	Dec. 18	25	1082
Preparation for softening and beautifying the hands and face	J. F. Stevenson	10,022	Feb. 6	23	440
Preparation to promote digestion in infants and children. Certain vegetable	C. F. Barnes	10,414	July 10	24	104
Preservative. Food	Hines' Preserving Company	10,208	Apr. 24	23	1532
Preservatives. Food	Humiston Food Preserving Company.	10,203	Apr. 17	23	1450
Preservatives. Food	Humiston Food Preserving Company.	10,204	Apr. 17	23	1450
Preservatives. Food	Humiston Food Preserving Company.	10,291	May 22	23	1930
Preservatives. Food	Humiston Food Preserving Company.	10,292	May 22	23	1930
Preservatives. Food	Humiston Food Preserving Company.	10,293	May 22	23	1930
Preservatives. Food	Humiston Food Preserving Company.	10,294	May 22	23	1930
Preservatives. Food	Humiston Food Preserving Company.	10,295	May 22	23	1930
Preservatives. Food	Humiston Food Preserving Company.	10,296	May 22	23	1930
Preservatives. Food	Humiston Food Preserving Company.	10,297	May 22	23	1930
Preservatives. Food	Humiston Food Preserving Company.	10,298	May 22	23	1930
Preservatives. Food	Humiston Food Preserving Company.	10,299	May 22	23	1930
Preservative for animal and vegetable substances	C. G. Am Ende	10,647	Oct. 23	25	294
Preservatives for animal and vegetable substances. Chemical	C. G. Am Ende	10,607	Oct. 2	25	2
Preserved fruits, jellies, jams, and canned vegetables	Tillmann & Bendel	10,390	July 3	24	2
Printing-presses	Babcock Printing Press Manufacturing Company.	10,205	Apr. 24	23	1532
Prints. Cotton	Coffin, Altemus & Co	9,978	Jan. 23	23	274
Pulley-blocks	H. Loud	10,683	Oct. 30	25	398
Railway-rails and railway-fastenings	St. Louis Bolt and Iron Company	10,079	Mar. 6	23	834
Razors	F. Ascheuer	10,665	Oct. 23	25	294
Razors	C. F. Butcher	10,423	July 17	24	208
Razors	H. Sears & Co	9,946	Jan. 9	23	96
Reapers. Single-wheel	McCormick Harvesting Machine Company.	10,704	Nov. 6	25	506
Remedies containing cresylic or carbolic acid for diseases of animals.	J. P. Barnett	10,343	June 12	23	2242
Remedies in both dry and liquid form for the cure of internal and external diseases.	World's Medicine Company of Buffalo, New York.	10,286	May 22	23	1930
Remedies. Internal	Swift Specific Company	10,144	Mar. 27	23	1126
Remedies. Internal	W. A. Taylor	10,503	Aug. 14	24	606
Remedy for catarrh	C. F. Barnes	10,406	July 10	24	104
Remedy for catarrh, cold in the head and throat	H. F. Roberson	10,360	June 19	23	2330
Remedy for chills, neuralgia, &c	C. F. Simmons	10,562	Aug. 28	24	802
Remedy for consumption	E. T. Hazeltine	10,471	July 31	24	394
Remedy for diphtheria	R. Amthor	10,804	Dec. 25	25	1194
Remedy for diseases of the liver	J. J. & W. H. Tobin	10,350	June 12	23	2242
Remedy for dyspepsia and indigestion	R. King	10,073	Feb. 27	23	744
Remedy for epilepsy	H. F. Schweer	10,755	Dec. 4	25	886
Remedy for external and internal pain	E. B. Dodge	9,972	Jan. 23	23	274
Remedy for external and internal use	W. H. Brearley	10,165	Apr. 10	23	1340
Remedy for kidney and urogenital diseases	E. H. Kaercross	10,356	June 19	23	2330
Remedy for private diseases	F. Stearns & Co	10,756	Dec. 4	25	886
Remedy for rheumatism and other diseases and injuries	Kenyon & Powles	10,642	Oct. 16	25	196
Remedy for toothache	O. P. Macalaster	10,091	Mar. 6	23	834
Resaws, molding-machines, planers, &c	J. S. Graham & Co	10,547	Aug. 28	24	802
Ribbons. Silk and velvet	C. F. Homer	10,420	July 10	24	104
Ribbons. Taffeta	Oberteuffer, Abegg & Daeniker	10,738	Nov. 27	25	790
Ribbons. Velvet	E. Mommer	10,747	Nov. 27	25	790
Ribbons with satin edges. Taffeta	Oberteuffer, Abegg & Daeniker	10,713	Nov. 13	25	604
Roller-mills, centrifugal reels, and bolting-cloths	L. B. Fiechter Manufacturing Company.	10,611	Oct. 2	25	2
Rubber compound used for steam-packing and like purposes. India-	J. H. Cheever	10,345	June 12	23	2242
Rubber goods and boots and shoes. Cement for	Mulford, Cary & Conklin	10,737	Nov. 27	25	790
Rum, brandy, whisky, gin, and foreign and domestic wines	Cushing Process Company	10,551	Aug. 28	24	802
Salts for preserving and curing animal and vegetable food. Chemical	C. E. Calm	10,288	May 22	23	1930
Salves and plasters	Chase & Budlong	10,499	Aug. 14	24	605
Sash-balances	T. Morton	10,246	May 1	23	1626
Sashes, scarfs, and trimmings	J. N. Stearns & Co	10,232	May 1	23	1626
Sauce	Goodall, Backhouse & Co	10,174	Apr. 10	23	1340
Sauces. Table	W. H. Railton	10,716	Nov. 13	25	604
Saws	Simonds Manufacturing Company	10,050	Feb. 13	23	544
Saws. Buck	J. B. Smith Company	9,933	Jan. 9	23	96

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Saws having insertible teeth	J. E. Emerson	10,795	Dec. 18	25	1082
Scales	Fulton Gravity Scale Company	10,035	Feb. 13	23	544
Sedative preparation or compound	H. S. Evans	10,281	May 22	23	1930
Shade-rollers. Spring-balance	D. E. Kempster	9,969	Jan. 16	23	196
Shears and scissors	Elyria Shear Company	10,494	Aug. 7	24	500
Shears and scissors	Elyria Shear Company	10,495	Aug. 7	24	500
Sheep-dip	Louisville Leaf Tobacco Company	10,026	Feb. 6	23	440
Sheet metal	Republic Iron Works	10,767	Dec. 4	25	886
Sheet-metal utensils and articles. Enameled	Lalance & Grosjean Manufacturing Company.	10,322	May 29	23	2036
Shingles	W. Meyer & Bro	10,396	July 3	24	2
Shirts	J. L. Libby & Co	10,150	Mar. 27	23	1126
Shirts, collars, cuffs, and underwear	H. T. Miller & Co	10,434	July 17	24	208
Shoe-thread	Hadley Company	10,470	July 31	24	394
Shoes. Preparation for cleaning, dressing, and polishing ladies'	Lustro Company	9,963	Jan. 16	23	196
Shovels, scoops, and spades	Groom Shovel Company	10,516	Aug. 14	24	606
Silk goods. Dress	Shaen & Fithian	10,247	May 1	23	1626
Silk piece-goods	P. Dorgeval	10,068	Feb. 27	23	744
Silk piece-goods	H. L Gargan	10,056	Feb. 20	23	634
Silks. Black and colored	Shaen & Fithian	10,736	Nov. 20	25	702
Silks, velvets, ribbons, and dress-goods	Passavant & Co	10,331	June 5	23	2124
Silver-polish	W. E. Dunham	10,634	Oct. 16	25	196
Silver-wares. Sterling	W. Wilson & Son	9,949	Jan. 9	23	96
Skins. Salted sheep-	B. Cannon & Co	10,278	May 22	23	1930
Sleds and sleighs	B. F. & H. L. Sweet	9,992	Jan. 30	23	348
Slippers, boots, and shoes. Felt	A. Dolge	10,365	June 26	23	2416
Snuff, cigars, cigarettes, fine-cut chewing, plug, and smoking tobacco.	Spaulding & Merrick	10,441	July 17	24	208
Snuff, cigars, cigarettes, fine-cut chewing, plug, and smoking tobacco.	Spaulding & Merrick	10,442	July 17	24	208
Soap. Hard	Summit City Soap Company	10,276	May 15	23	1836
Soap. Hard	S. Winger	10,672	Oct. 23	25	294
Soap in bars or cakes	G. E. Marsh & Co	10,625	Oct. 9	25	98
Soap in bars or cakes	G. E. Marsh & Co	10,626	Oct. 9	25	98
Soap in cakes or bars	G. E. Marsh & Co	10,711	Nov. 13	25	604
Soap. Laundry-	Colgate & Co	10,014	Feb. 6	23	440
Soap. Laundry-	Davis Bro. & Co	10,207	Apr. 24	23	1532
Soap. Laundry and toilet	Lautz Brothers & Co	10,218	Apr. 24	23	1532
Soap. Laundry and toilet	Lautz Bros. & Co	10,273	May 15	23	1836
Soap. Laundry and toilet	C. Lipps	10,403	July 10	24	104
Soap. Laundry and toilet	Schultz & Co	9,990	Jan. 30	23	348
Soap. Laundry and toilet	Schultz & Co	10,324	May 29	23	2036
Soap-powder	Kendall Manufacturing Company	10,212	Apr. 24	23	1532
Soap. Solidified	H. H. Wheeler, H. Tomb, and G. S. Yingling.	10,706	Nov. 6	25	506
Soap. Toilet	J. S. Kirk & Co	10,695	Nov. 6	25	506
Soap. Toilet and laundry	Olds & Co	10,763	Dec. 4	25	886
Soap. White bar-	W. G. Crane	10,610	Oct. 2	25	2
Soaps, perfumery, toilet preparations, and glycerine	J. S. Kirk & Co	10,616	Oct. 2	25	2
Soda and soda-ash. Caustic	Mort, Liddell & Co	10,167	Apr. 10	23	1340
Soda, saleratus, and baking-powder. Baking-	J. Dwight & Co	9,921	Jan. 2	23	2
Soda, saleratus, and baking-powder. Baking-	J. Dwight & Co	10,118	Mar. 20	23	1036
Spades, shovels, and scoops	O. Ames & Sons	10,620	Oct. 9	25	98
Specific cure for piles	E. F. Hubbs	10,448	July 17	24	208
Specific for neuralgia and rheumatism	A. A. Mellier	10,433	July 17	24	208
Specific for neuralgia, headache, and the like diseases	Twitchell, Champlin & Co	10,444	July 17	24	208
Specific for the respiratory organs	F. Hiller, Jr	10,209	Apr. 24	23	1532
Spectacles and eyeglasses	A. K. Hawkes	10,805	Dec. 25	25	1194
Spices. Ground or powdered	J. A. Jones	10,624	Oct. 9	25	98
Starch	Electric Lustre Starch Co	10,371	June 26	23	2416
Starch	A. A. Hovey	10,320	May 29	23	2036
Starch	A. A. Hovey	10,321	May 29	23	2036
Starch	C. W. B. Weber	10,498	Aug. 7	24	500
Steam-boiler-scale solvents	H. J. Mark	10,242	May 1	23	1626
Steam-boilers. Composition for removing and preventing incrustation in	Hann & Co	10,237	May 1	23	1626
Steam-boilers. Compound for preventing the incrustation of	E. J. Hoffman and W. H. Ransom	10,227	May 1	23	1626
Steam-engines	Straight Line Engine Company	10,248	May 1	23	1626
Steel. Bar, plate, and various other kinds of	S. Osborn & Co	10,460	July 24	24	306
Steel. Soft-center	J. L. Pfau, Jr	10,170	Apr. 10	23	1340
Stomachic	J. Ebel	10,090	Mar. 6	23	834
Stones or brilliants. Artificial	E. E. Kipling	10,385	July 3	24	2
Stones or brilliants. Artificial	E. E. Kipling	10,386	July 3	24	2
Stove-polish	H. A. Bartlett	10,216	Apr. 24	23	1532
Stove-polish. Water-proof	B. F. Myers, J. W. Hayford, and G. S. Yingling.	10,772	Dec. 11	25	984
Stoves	J. E. Forbes & Co	10,328	June 5	23	2124
Stoves and furnaces. Heating and cooking	Peninsular Stove Company	10,059	Feb. 20	23	634
Stoves. Certain preparation for cleaning and polishing	Lustro Company	10,064	Feb. 20	23	634
Stoves, ranges, and heaters generally	Michigan Stove Company	10,007	Jan. 30	23	348
Stoves, ranges, and heaters generally	Michigan Stove Company	10,008	Jan. 30	23	348
Stoves, ranges, furnaces, and heaters. Cooking-	C. Rathbone	10,764	Dec. 4	25	886
Surgical instruments and appliances	Déclat Manufacturing Company	10,424	July 17	24	208
Surgical instruments and appliances. Certain	H. S. Evans	10,394	July 3	24	2
Syringes. Elastic-bulb	J. Davol	10,034	Feb. 13	23	544
Tackle or pulley blocks	Bagnall & Loud	10,648	Oct. 23	25	294
Tanning extracts. Vegetable	I. & I. Miller & Co., and Millerton, Upton, and Mortimer.	9,944	Jan. 9	23	96
Teas	Catherwood & Co	9,994	Jan. 30	23	348
Teas	J. H. Catherwood & Co	10,031	Feb. 13	23	544
Teas	J. H. Catherwood & Co	10,032	Feb. 13	23	544
Teas	Fraser, Farley & Varnum	10,724	Nov. 20	25	702
Teas	E. A. Schoyer & Co	10,010	Jan. 30	23	348

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Teas. Formosa oolong	T. T. Barr & Co	10,369	June 26	23	2416
Teas. Mixed	C. D. Kenny	10,485	Aug. 7	24	500
Teeth. Articles used in the manufacture of artificial	F. W. Seabury	10,605	Sept. 25	24	1180
Thrashers and separators	M. Harder	10,226	May 1	23	1626
Thread and yarn. Knitting and embroidery	H. E. Frankenberg	10,194	Mar. 20	23	1036
Thread. Linen	P. Vrau & Co	10,515	Aug. 14	24	606
Thread. Package of	Clark Thread Company	10,023	Feb. 6	23	440
Thread, twine, and cord	Ross, Turner & Co	10,361	June 19	23	2330
Time-indicators. Mechanism used as electrical	Time Telegraph Company	9,977	Jan. 23	23	274
Tinware. Certain articles of	G. D. Winchell Manufacturing Company.	10,815	Dec. 25	25	1194
Tobacco	Pfingst, Doerhoefer & Co	10,028	Feb. 6	23	440
Tobacco	A. Tinsley Tobacco Manufacturing Company.	10,249	May 1	23	1626
Tobacco	A. Tinsley Tobacco Manufacturing Company.	10,570	Sept. 4	24	904
Tobacco. All kinds and classes of manufactured	T. A. Pace and R. F. Sizer	10,071	Feb. 27	23	744
Tobacco. All kinds of chewing and smoking	Garr Bros	10,453	July 24	24	306
Tobacco. All manufactured	Spaulding & Merrick	10,462	July 24	24	306
Tobacco and cigarettes. Smoking and chewing	E. G. Steane	10,172	Apr. 10	23	1340
Tobacco and cigars. Chewing	Leland, Smith & Co	10,731	Nov. 20	25	702
Tobacco and cigars. Manufactured	T. C. Williams & Co	10,758	Dec. 4	25	886
Tobacco. Chewing	P. H. Hanes & Co	10,271	May 15	23	1836
Tobacco. Chewing	P. H. Hanes & Co	10,272	May 15	23	1836
Tobacco. Chewing	Winfree & Loyd	10,543	Aug. 21	24	708
Tobacco. Chewing and smoking	Berry Bros	10,677	Oct. 30	25	398
Tobacco, cigars, and cigarettes. Chewing and smoking	Globe Tobacco Company	10,338	June 5	23	2194
Tobacco, cigars, and cigarettes. Chewing and smoking	Goodwin & Co	10,200	Apr. 17	23	1450
Tobacco, cigars, and cigarettes. Cut smoking	American Eagle Tobacco Company	10,803	Dec. 25	25	1194
Tobacco, cigars, and cigarettes. Cut smoking and chewing	American Eagle Tobacco Company	10,779	Dec. 18	25	1082
Tobacco, cigars, and cigarettes. Cut smoking and chewing	American Eagle Tobacco Company	10,780	Dec. 18	25	1082
Tobacco, cigars, and cigarettes. Fine-cut and plug chewing and smoking	G. H. Spear	10,259	May 8	23	1736
Tobacco, cigars, and cigarettes. Fine-cut chewing, plug, and smoking	R. Hamilton	10,464	July 24	24	306
Tobacco, cigars, and cigarettes. Fine-cut, plug chewing, and smoking	B. Leidersdorf & Co	10,005	Jan. 30	23	348
Tobacco, cigars, and cigarettes. Smoking	Goodwin & Co	10,201	Apr. 17	23	1450
Tobacco, cigars, and cigarettes. Smoking and chewing	Globe Tobacco Company	10,659	Oct. 23	25	294
Tobacco. Composition of	J. J. Lawrence	10,193	Apr. 17	23	1450
Tobacco. Cut smoking and chewing	American Eagle Tobacco Company	10,778	Dec. 18	25	1082
Tobacco. Fine-cut, plug, and smoking	R. Hamilton	10,454	July 24	24	306
Tobacco. Havana leaf	G. Salomon & Bros	10,591	Sept. 18	24	1094
Tobacco. Leaf	M. H. Clark & Bro	10,546	Aug. 28	24	802
Tobacco. Leaf	F. Garcia, Bro. & Co	10,086	Mar. 6	23	834
Tobacco. Manufactured	A. Tinsley Tobacco Manufacturing Company.	10,277	May 22	23	1930
Tobacco. Manufactured and unmanufactured	Buchanan & Lyall	9,929	Jan. 2	23	2
Tobacco. Manufactured and unmanufactured	E. Hoffman & Son	10,202	Apr. 17	23	1450
Tobacco. Manufactured chewing	Hornthal & Deiches	10,399	July 3	24	2
Tobacco. Plug	Berry Bros	10,524	Aug. 21	24	707
Tobacco. Plug	J. H. Harris' Sons	10,666	Oct. 23	25	294
Tobacco. Plug	J. H. Harris' Sons	10,667	Oct. 23	25	294
Tobacco. Plug	J. H. Harris' Sons	10,668	Oct. 23	25	294
Tobacco. Plug	J. H. Harris' Sons	10,669	Oct. 23	25	294
Tobacco. Plug	J. H. Harris' Sons	10,670	Oct. 23	25	294
Tobacco. Plug	J. H. Harris' Sons	10,784	Dec. 18	25	1082
Tobacco. Plug	Larus & Bro	10,039	Feb. 13	23	544
Tobacco. Plug	R. A. Patterson & Co	10,096	Mar. 13	23	942
Tobacco. Plug	S. W. Venable & Co	10,575	Sept. 4	24	904
Tobacco. Plug	Winfree & Loyd	10,542	Aug. 21	24	708
Tobacco. Plug	Winfree & Loyd	10,544	Aug. 21	24	708
Tobacco. Plug and smoking	G. S. Schwartz & Co	10,382	June 26	23	2416
Tobacco. Plug chewing	C. W. Allen	10,421	July 17	24	208
Tobacco. Plug chewing and smoking	G. D. Bow	10,134	Mar. 27	23	1196
Tobacco. Plug chewing and smoking	H. Scales	10,440	July 17	24	208
Tobacco. Plug chewing and smoking	T. L. Vaughn	10,697	Nov. 6	25	506
Tobacco. Plug, twist, and smoking	A. M. Lyon & Co	10,629	Oct. 16	25	196
Tobacco. Plug, twist, and smoking	J. B. Pace Tobacco Co	10,788	Dec. 18	25	1082
Tobacco. Smoking	B. Leidersdorf & Co	10,003	Jan. 30	23	348
Tobacco. Smoking and chewing	C. W. Allen	10,475	July 31	24	394
Tobacco. Smoking, and smoking and chewing	G. W. Gail & Ax	10,817	Dec. 25	25	1194
Tobacco. Smoking, plug, and fine-cut	L. B. Babcock	10,816	Dec. 25	25	1194
Tobacco, snuff, and cigarettes. Smoking and chewing	H. Wilkens & Co	10,734	Nov. 20	25	702
Tobacco, snuff, and cigarettes. Smoking and chewing	H. Wilkens & Co	10,739	Nov. 27	25	790
Toilet articles. Certain	H. S. Evans	10,425	July 17	24	208
Toilet preparation	J. E. Espey	10,024	Feb. 6	23	440
Toilet preparation	C. W. Holmes	10,069	Feb. 27	23	744
Toilet preparations and articles. Certain	J. S. Kirk & Co	10,701	Nov. 6	25	506
Tonic	C. J. Lincoln and E. L. Brown	10,323	May 29	23	2036
Tools and implements for agricultural and mechanical purposes.	H. W. Peabody & Co	10,661	Oct. 23	25	294
Tools. Certain earth-working	Collins Company	9,954	Jan. 16	23	195
Tools. Certain earth-working	Collins Company	9,955	Jan. 16	23	195
Tools. Certain earth-working	Collins Company	9,956	Jan. 16	23	195
Tools or implements for agricultural and mechanical purposes.	H. W. Peabody & Co	9,989	Jan. 30	23	342
Tools. Saddle and harness	C. S. Osborne & Co	9,976	Jan. 23	23	274
Tooth-picks	E. L. Marshall	10,548	Aug. 28	24	802
Tooth-powder	R. S. Thomson	10,619	Oct. 2	25	2
Toy goblets. Wooden	Hawley & Hoops	10,142	Mar. 27	23	1196
Truss. Hernial	I. B. Seeley & Co	9,924	Jan. 2	23	2
Tubing. Metal	E. C. Converse	10,759	Dec. 4	25	886
Tubing. Metal	E. C. Converse	10,781	Dec. 18	25	1082
Tubing (of rubber or gas-tight composition)	Union Tubing Company	10,115	Mar. 13	23	942

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Twine. Seine	W. J. Hooper & Son	10,339	June 5	23	2124
Varnishes	Lewis, Bedell & Co	10,138	Mar. 27	23	1126
Velveteen	Megroz, Portier, Grose & Co	10,379	June 26	23	2416
Velveteen	Shaen & Christie	9,991	Jan. 30	23	348
Velvets	J. B. David	10,479	Aug. 7	24	499
Velvets	J. B. David	10,480	Aug. 7	24	500
Velvets, satins, and silk goods	Passavant & Co	10,148	Mar. 27	23	1126
Velvets, velveteens, velvetas, plushes, and similar goods	Shaen & Fithian	10,122	Mar. 20	23	1036
Vermin-destroyer	K. Simmon	9,926	Jan. 2	23	2
Vermouth	Nolly, Prat & Co	10,786	Dec. 18	25	1082
Vinegar made of wine. Certain	Pacific Vinegar Works	10,435	July 17	24	208
Wagons, phaetons, buggies, sleighs, and like vehicles. Farm and spring	Fish Bros. & Co	10,612	Oct. 2	25	2
Washing-powder	Benk Manufacturing Company	10,252	May 8	23	1736
Watch-cases. Rolled-gold-plate	Dueber Watch Case Manufacturing Company.	10,377	June 26	23	2416
Watches	J. Fahys & Co	10,372	June 26	23	2416
Watches	A. Schwob	10,301	May 22	23	1930
Watches	A. Schwob	10,592	Sept. 18	24	1094
Watches	A. Schwob	10,593	Sept. 18	24	1094
Watches	A. Schwob	10,594	Sept. 18	24	1094
Watches	L. Strasburger & Co	10,315	May 29	23	2036
Water-proof clothing	D. Jannopoulo	9,940	Jan. 9	23	96
Water-proof jackets, pants, and coats	H. M. Sawyer	10,105	Mar. 13	23	942
Whalebone	B. Seligman	10,097	Mar. 13	23	942
Wheat. Whole winter	D. Brainard	10,753	Dec. 4	25	885
Whisky	J. Cotter	9,997	Jan. 30	23	348
Whisky	A. Halliday & Co	10,020	Feb. 6	23	440
Whisky	Iglehart & O'Donnell	10,094	Mar. 6	23	834
Whisky	F. E. Kelly	10,244	May 1	23	1626
Whisky	Lang, Bernheimer & Co	10,310	May 29	23	2036
Whisky	Meyer Brothers & Co	10,245	May 1	23	1626
Whisky	H. Snyder, Jr	10,777	Dec. 11	25	984
Whisky. Rye	E. Walters & Co	9,932	Jan. 2	23	2
Whisky. Rye and other	Cardeza, Gilliams & Co	10,529	Aug. 21	24	708
Wild cherry, rock, and rye	I. C. Shafer	10,171	Apr. 10	23	1340
Wind and reed instruments, violins, and guitars	C. Bruno & Son	9,993	Jan. 30	23	348
Wine. Champagne	C. Arnould & Heidelberger	10,447	July 17	24	208
Wine. Champagne	J. Bollinger	10,678	Oct. 30	25	398
Wine. Champagne	Deutz & Geldermann	10,266	May 15	23	1836
Wine. Champagne	Deutz & Geldermann	10,267	May 15	23	1836
Wine. Champagne	Heidsieck & Co	10,075	Feb. 27	23	744
Wine. Champagne	Krug & Co	10,508	Aug. 14	24	606
Wine. Champagne	Krug & Co	10,509	Aug. 14	24	606
Wine. Champagne	P. Lenk & Co	10,220	Apr. 24	23	1532
Wine. Champagne	G. H. Mumm & Co	14,513	Aug. 14	24	606
Wine. Champagne	T. Roederer & Co	10,532	Aug. 21	24	708
Wine. Champagne	T. Roederer & Co	10,533	Aug. 21	24	708
Wine. Champagne	T. Roederer & Co	10,534	Aug. 21	24	708
Wine. Ferrated hygienic	C. H. & J. Price	10,732	Nov. 20	25	702
Wines	Luyties Brothers	10,539	Aug. 21	24	708
Wines and brandies. Hungarian	L. Reich	10,317	May 29	23	2036
Wines. Bottled	L. Parisette	10,330	June 5	23	2124
Wines. Champagne	Bouché, Fils	10,581	Sept. 18	24	1094
Wines. Champagne	Bouché, Fils	10,582	Sept. 18	24	1094
Wines. Champagne	Bouché Fils	10,630	Oct. 16	25	196
Wines. Hungarian	L. Reich	10,316	May 29	23	2036
Wines. Sparkling	Chandon & Co	9,995	Jan. 30	23	348
Wire fabric for beds, chairs, settees, &c. Woven	Hartford Woven Wire Mattress Company.	10,217	Apr. 24	23	1532
Woolen dress-goods for women and children	Megroz, Portier, Grose & Co	10,380	June 26	23	2416
Woolen dress-goods	Megroz, Portier, Grose & Co	10,540	Aug. 21	24	708
Wound-dressings	C. G. Am Ende	10,145	Mar. 27	23	1126
Writing-fluid	Carter, Dinsmore & Co	10,098	Mar. 13	23	942
Yarns. Cotton and half-woolen	C. A. Tetzner & Sohn	10,401	July 3	24	2
Yeast. Compressed	Gaff, Fleischmann & Co	10,000	Jan. 30	23	348
Yeast. Compressed	Gaff, Fleischmann & Co	10,001	Jan. 30	23	348

ALPHABETICAL LIST OF LABELS.

Title.	Name.	No.	Date.	Official Gazette. Volume.	Page.
"A. B. C. Alpaca Braid"	C. G. Hubert	3,227	May 22	23	1930
"A. C. Wyly's Diamond Patent Flour"	A. C. Wyly	3,743	Dec. 4	25	886
"A Cap for Oyster Cans"	S. A. Mullikin	2,913	Jan. 16	23	196
"A Cigar Label"	Schumacher & Ettlinger	2,904	Jan. 9	23	96
"A Cigar Label"	Schumacher & Ettlinger	3.042	Mar. 6	23	834
"A Cigar Label"	Schumacher & Ettlinger	3,043	Mar. 6	23	834
"A Cigar Label"	Schumacher & Ettlinger	3,044	Mar. 6	23	834
"A Cigar Label"	Schumacher & Ettlinger	3,045	Mar. 6	23	834
"A Cigar Label"	Schumacher & Ettlinger	3,046	Mar. 6	23	834
"A Cigar Label"	Schumacher & Ettlinger	3,047	Mar. 6	23	834
"A four (4) leafed Clover." (for Medical Compounds)	Pemberton, Iverson & Denison	3,166	Apr. 24	23	1532
"A New Brand" (for Ribbons)	J. Ryle	3,292	June 12	23	2242
"A Sure Thing for Syphilis in all its Forms"	G. K. Elder	3.542	Sept. 25	24	1180
"Aerated Poland Water" (for Poland Mineral Spring Water)	H. Ricker & Sons	3,274	June 5	23	2124
"Air Chamber" (for Fabric woven of Asbestos, &c)	H. W. Johns Manufacturing Company.	3,491	Sept. 4	24	904
"Alaska Catarrh Compound"	J. Callahan	3,100	Mar. 27	23	1126
"Allard's Black Oil." (for a "Remedy for Man or Beast")	Allard & Burt	3,326	July 3	24	4
"Allcock's Porous Plaster, Brandreth's Pills"	Porous Plaster Company	3,381	July 17	24	208
"Allen's Oriental Balm" (for a Cosmetic)	G. L. Burnside	3,415	Aug. 7	24	500
"Alter Schweden General"	P. W. Gilbert	3,072	Mar. 13	23	942
"Ambrosial Peach and Honey"	Marsh, Clark & Co	3,642	Oct. 30	25	398
"American Cocktail." (for Beverages)	Cook & Bernheimer	3,279	June 12	23	2242
"American Dyspepthera"	C. S. Allen	3,085	Mar. 20	23	1036
"American Stilton" (for Cheese)	M. Cooper	3.540	Sept. 25	24	1180
"American Sweet Oil"	Buxton, Heins & Co	3,159	Apr. 24	23	1532
"Amity," (for Coffee)	C. Fink and A. Nasse	3,444	Aug. 14	24	606
"Angel Food" (for a Certain Brand of Flour)	Minor & Brown	3,595	Oct. 16	25	196
"Antidotine" (for a Medicine)	E. Weeman	3,462	Aug. 21	24	708
"Anti Malarial Bitters"	S. O. McKennan	2,935	Jan. 30	23	348
"Anti-Monopoly Match"	Miller Match Co	3,476	Aug. 28	24	802
"A. O. U. W." (for Cigars)	Harris Brothers	3,417	Aug. 7	24	500
"Apres Dejeuner" (for Manufactured Tobacco)	Thomas & Bro	3,552	Sept. 25	24	1180
"Apres Diner" (for Manufactured Tobacco)	Thomas & Bro	3,553	Sept. 25	24	1180
"Apres Souper" (for Cigars)	Thomas & Bro	3,411	July 31	24	392
"Arlington Mills," (for Woolen or Worsted Dress Goods)	Arlington Mills	3,458	Aug. 21	24	708
"Arnica Tooth Soap"	C. H. Strong	3,107	Mar. 27	23	1126
"Ashes of Roses" (For Cigars)	C. A. Yale Cigar Manufacturing Company.	2,987	Feb. 13	23	544
"Ashley's Tonic and Constipation Cure"	J. J. Ashley	3,086	Mar. 20	23	1036
"Asthma Conqueror"	J. E. Webb	3,500	Sept. 4	24	904
"Athens" (for Silver-Plated Goods)	W. Rogers	3,493	Sept. 4	24	904
"Aunt Abby's Mince Meat"	W. M. Shoemaker	3,721	Nov. 27	25	790
"Autocrat of the Breakfast Table." (for Coffee Pots)	Lalance & Grosjean Manufacturing Company.	3,287	June 12	23	2242
"Automatic" (for School Furniture)	Union School Furniture Company	3.554	Sept. 25	24	1180
"Auxiliator," (for a Hair Preparation)	P. Westphal	2,908	Jan. 9	23	96
"B B B B" (for Cigars)	Beitman Bros	3,170	May 1	23	1626
"B. B. B. Botanic Blood Balm"	J. P. Dromgoole and L. M. Gillam	3,388	July 24	24	306
"B's Boot Protector"	Jones, Edwards & Co	3,179	May 1	23	1626
"Badger State." (for Cheese)	C. E. Udell	3,234	May 22	23	1930
"Base Balls"	Warner Bros	3,199	May 8	23	1736
"Base Balls"	Warner Bros	3,200	May 8	23	1736
"Bassett's Lock Marker"	M. H. Bassett	3,704	Nov. 27	25	790
"Baxter's Adjustacle "S" Wrench"	Greene, Tweed & Co	3,163	Apr. 24	23	1532
"Baxter's Diagonal Wrench"	Greene, Tweed & Co	3,162	Apr. 24	23	1532
"Beech Fork" (for Whisky)	Brown, Thompson & Co	3,171	May 1	23	1626
"Belle of Buffalo" (for Flour)	G. Urban & Co	3,498	Sept. 4	24	904
"Bell's Adhesive and Water-Proof Belt Oil"	A. Q. Southwick	2,983	Feb. 13	23	544
"Best's New Process Amalgam." (For Dental Amalgam)	A. H. Best	2,988	Feb. 20	23	634
"Bewley & Draper Dublin Ginger Ale"	Bewley & Draper	3,099	Mar. 27	23	1126
"Big Find" (for Cigars)	Rankin & Sherrick	3,270	June 5	23	2124
"Bishop's Bird Dainties" (for Food for Birds)	H. Bishop	3,250	June 5	23	2124
"Black Lustre Stove Polish Paste"	A. Roesler	3,437	Aug. 14	24	606
"Black O. N. T." (For Thread)	Clark Thread Company	2,951	Feb. 6	23	440
"Blaker's Rheumatic Relief"	G. C. Blaker	2,918	Jan. 16	23	196
"Bluine" (for Bluing)	G. A. Conant	3,447	Aug. 21	24	708
"Bob 'Link" (for Smoking and Chewing Tobacco)	Fitzpatrick & Draper	3,637	Oct. 30	25	398
"Bohemian Smoking Tobacco"	Gradle & Strotz	3,728	Dec. 4	25	886
"Boiler Lagging" (for Fabric woven of Asbestos, &c)	H. W. Johns Manufacturing Company.	3,490	Sept. 4	24	904
"Bonkocine." (For Medicine)	L. B. Tyson	2,986	Feb. 13	23	544
"Boonekamp Magen-Bitter"	R. Sternsdorff & Co	3,131	Apr. 10	23	1340
"Boonekamp of Maag-Bitter"	H. Fink & Boelter	3,236	May 29	23	2036
"Boonekamp of Maag-Bitter"	R. Sternsdorff & Co	3,215	May 15	23	1836
"Boonekamp of Maag-Bitter" (for a Tonic Beverage)	H. Underberg-Albrecht	3,567	Oct. 2	25	2
"Bowker's Government Standard Solution For testing Vinegar Acetic Acid, &c."	H. L. Bowker	3,056	Mar. 13	23	942
"Bradbury & Co's. Hog Cholera Preventative"	H. E. Twitchell	3,345	July 3	24	2
"Braunschweiger," (for Malt Liquors)	H. R. Gogreve	2,921	Jan. 16	23	196
"Brazilian Balm" (for a Remedy)	B. F. Jackson	3,530	Sept. 18	24	1094

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Brighton Sauce," (for Table Sauce)	T. Austin & Sons	3,601	Oct. 23	25	994
"Brilliantine for the Eyes"	G. W. Kelley	3,194	Apr. 10	23	1340
"Brill's Spermoline Sewing Machine Oil"	W. H. Brill	2,950	Feb. 6	23	440
"Britannia" (for a Medicine)	C. W. Stayner	3,664	Nov. 6	25	506
"British White Oil for Man and Beast"	L. A. Jeffreys	3,714	Nov. 27	25	790
"Britton's Cholera Cure"	J. T. Britton & Co	3,569	Oct. 9	25	98
"Broadway" (for Jewelry)	Fry, Schieber & Co	3,205	May 15	23	1836
"Bromo Caffeine" (for Medicine)	Keasbey & Mattison	3,318	June 26	23	2416
"Brooks' Waterproof Stamping and Writing Ink"	E. J. Brooks & Co	3,277	June 12	23	2242
"Brown's Champion Oil Leather Cleaner and Dresser"	C. A. Buchanan and R. J. Lindsay	3,397	July 31	24	394
"Buffalo Brand" (for Meats)	J. Dold & Son	3,146	Apr. 17	23	1450
"Buffalo Sweet Chocolate"	C. Steck & Co	3,097	Mar. 20	23	1036
"Bunch of Keys" (for Cigars)	Jacoby & Fromer	3,489	Sept. 4	24	904
"Butler" (for Cigars)	Jacoby & Fromer	3,658	Nov. 6	25	506
"Buttered Flour"	P. Thorpe	3,217	May 15	23	1836
"Cabel" (for Cigars)	E. Williams	3,668	Nov. 6	25	506
"Cabinet Grand" (for Organs)	I. D. Lovett	3,228	May 22	23	1930
"Calenduline" (for a Chemical Preparation)	C. S. Halsey	3,591	Oct. 16	25	196
"California Favorite" (for Cigars)	Friend & Co	3,589	Oct. 16	25	196
"Camp Fire" (For Blankets)	J. R. Phillips	2,961	Feb. 6	23	440
"Canada Linseed Oil"	L. Küpper and W. J. Anderson	3,564	Oct. 2	25	2
"Canned Goods" (for Canned Fruits and Vegetables)	Royal Canning Company	3,421	Aug. 7	24	500
"Canned Goods" (for Canned Fruits and Vegetables)	Royal Canning Company	3,422	Aug. 7	24	500
"Cape Ann Whale Brand" (for Oil Clothing)	Cape Ann Oil Clothing Company	3,115	Apr. 10	23	1340
"Capitol Troche"	M. L. Fornwalt	3,701	Nov. 20	25	702
"Capsicum Oil" (for Liniment)	G. H. Swezey	3,520	Sept. 11	24	998
"Carbolated Sachet, Envelope or Pad" (for Disinfectants)	L. A. Le Mieux	3,151	Apr. 17	23	1450
"Card for Holding Separable Studs & Collar Buttons"	J. E. Lindauer	3,406	July 31	24	394
"Carnation," (for Flour)	Meyer & Bulte	3,434	Aug. 14	24	606
"Cassebeer's Cocoa-Calisaya"	H. A. Cassebeer, Jr	2,968	Feb. 13	23	544
"Cedrat Cold Cream," (for a Toilet Preparation)	R. D. Tingle	3,789	Dec. 25	25	1194
"Celebrated Farmers Brand Coffee"	C. M. Thomas, Jr	3,098	Mar. 20	23	1036
"Centerville Drying & Packing Co.," (for Canned Fruits)	J. Hagan	3,350	July 10	24	104
"Chamomile and Rock" (for a Medicinal Preparation)	Cook & Bernheimer	3,609	Oct. 23	25	294
"Chamomile and Rye" (for a Medicinal Preparation)	Cook & Bernheimer	3,611	Oct. 23	25	294
"Chamomile, Rock and Rye" (for a Medicinal Preparation)	Cook & Bernheimer	3,602	Oct. 23	25	294
"Chamomile, Rock and Rye" (for a Medicinal Preparation)	Cook & Bernheimer	3,610	Oct. 23	25	294
"Chamomile, Rye and Rock" (for a Medicinal Preparation)	Cook & Bernheimer	3,612	Oct. 23	25	294
"Champagne Lager Beer"	H. Clausen & Son Brewing Company.	3,312	June 26	23	2416
"Chasser Drops," (for a medicine)	J. Rogers	3,104	Mar. 27	23	1126
"Chegwidden's Right-Royal Mustard"	T. C. Chegwidden	2,969	Feb. 13	23	544
"Cheltenham Poultry Food"	W. M. Shoemaker	3,548	Sept. 25	24	1180
"Chemical Parlor Combination." ("For Burning Fluid")	W. W. Austin	2,949	Feb. 6	23	440
"Chicago Cable" (For Cigars)	I. Goldsmith & Bro	2,973	Feb. 13	23	544
"Chicago and North Western Old Reliable Ry." (for Cigars)	Weaver Bros	3,413	July 31	24	394
"Chicago Yeast Powder"	Chapman, Smith & Co	3,006	Feb. 27	23	744
"Chilline" (for a Remedy for Chilblains)	G. L. Forbush	3,749	Dec. 11	25	984
"Chimney" (For Lamp Chimneys)	J. L. Henry & Co	2,994	Feb. 20	23	634
"Chloride of Lime" (for Disinfectant)	Leggett & Brother	3,470	Aug. 28	24	802
"Choclatina" (for a Beverage)	Pincus Bros	3,599	Oct. 16	25	196
"Choice German Prepared Coffee"	Harding, Britton & Co	3,769	Dec. 18	25	1092
"Choice Table Nuts Mixed"	F. M. Ironmonger	3,621	Oct. 23	25	294
"Chown's Sure Relief Liniment"	R. Chown	3,144	Apr. 17	23	1450
"Chronic Ulcer Salve"	J. P. Sarsfield	3,040	Mar. 6	23	834
"Cirage Onctueux" (for Blacking)	Oriental Manufacturing Co	3,597	Oct. 16	25	196
"Cito" "Catarrh Snuff"	L. S. Fish	3,401	July 31	24	394
"Citro" (For Diptheria and Sore Throat)	L. S. Fish	2,931	Jan. 30	23	348
"City of Chicago" (for Sugar Cured Smoked Hams)	Hagan & Co	3,259	June 5	23	2124
"Clark's Ague Cure"	M. Clark	3,117	Apr. 10	23	1340
"Clark's O. N. T. Spool Cotton"	G. A. Clark & Brother	3,174	May 1	23	1626
"Cleveland" (for Cigars)	H. F. Rose & Co	3,105	Mar. 27	23	1126
"Clippon" (for Cigars)	Jacoby & Fromer	3,677	Nov. 13	25	604
"Cloth of America" (for Silk)	H. A. Van Liew	3,235	May 22	23	1930
"Clothes Wringer Soap"	Wilson & Gorman	3,310	June 19	23	2330
"Clothes Wringer Soap"	Wilson & Gorman	3,325	June 26	23	2416
"Clover Bitters"	J. J. Maher & Co	2,975	Feb. 13	23	544
"Clymer's Celebrated Northern Horse and Cattle Powder"	C. W. Clymer & Co	3,255	June 5	23	2124
"Cocamoke Bitters"	P. Donaghue	3,006	Feb. 27	23	744
"Combed Shoe Thread"	Hadley Company	3,304	June 19	23	2330
"Combed Shoe Thread"	Hadley Company	3,305	June 19	23	2330
"Combed Shoe Thread"	Hadley Company	3,335	July 3	24	2
"Combination Brand" (For Corn and Tomatoes)	S. H. Cole & Bro	2,970	Feb. 13	23	544
"Comp. Hydrastis Vaginal Pastiles"	E. B. Bury	3,651	Nov. 6	25	506
"Compound Balsamic Glycerine"	J. Condie	2,928	Jan. 23	23	274
"Compound Extract Copaiba, Cubebs and Iron"	C. E. Morrell	2,892	Jan. 2	23	2
"Consumption. Basford's Aquarian Balm" (for a Medical Preparation.)	J. L. Basford	3,703	Nov. 27	25	790
"Coppel Cutlery Co.," (For Cutlery)	Ostheimer Brothers	2,937	Jan. 30	23	348
"Corle Cracker and Confectionery Co., Kansas City"	Corle Cracker and Confectionery Company.	3,724	Dec. 4	25	886
"Corn Belt," (for Cigars)	N. H. Cohen	3,723	Dec 4	25	886
"Corrugated" (for Flour)	Sidle Fletcher Holmes Company	3,242	May 29	23	2036
"Cosmaroma," (for a Toilet Liquid)	Pirz & Saward	3,367	July 10	24	104
"Cosmetic Lotion"	L. Friedman	2,972	Feb. 13	23	544
"Coutant's Ague Cure"	G. Coutant	3,373	July 17	24	208
"Cover to Sample Book"	J. H. Lane & Co	3,140	Apr. 10	23	1340
"Crack Shot" (for Cigars)	W. Walker	3,741	Dec. 4	25	886
"Cream of Beauty" (for a Cosmetic)	M. Latour	3,405	July 31	24	394
"Crisoline" (for a Hair Wash)	C. E. Fougera	3,707	Nov. 27	25	790
"Cronin's Egyptian Magnetic Strengthening Plaster"	C. J. Cronin	3,705	Nov. 27	25	790
"Crown Bucan" (for a Medicine)	Farrington & Co	3,400	July 31	24	394
"Crystal Water Frosting"	N. Reynolds & Co	2,941	Jan. 30	23	348
"Cupid M. D" (for Cigars)	Rankin & Sherrick	3,272	June 5	23	2124

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Curaline," (for Petroleum Products and Petroleum and other Oils and Lubricating Compounds.)	D. L. Grant	3,672	Nov. 13	25	604
"Cutamollio," (for the skin)	C. E. Browne	3,114	Apr. 10	23	1340
"D. D. Meader's Salve"	D. D. Meader	2,995	Feb. 20	23	634
"Dairy Queen" (for Smoking and Chewing Tobacco, Snuff and Cigarettes.)	H. Wilkens & Co	3,687	Nov. 13	25	604
"Daisy Soap"	Ohio Candle Company	3,078	Mar. 13	23	942
"Dandelion Bitters"	H. E. Peters	3,396	July 24	24	306
"Dandelion Liver Pellets"	H. E. Peters	3,395	July 24	24	306
"Danhof's Infallible Liver and Kidney Remedy"	J. J. Danhof	3,348	July 10	24	104
"Dare's Indian Pulmonic Syrup"	J. B. Dare	3,256	June 5	23	2124
"Dawson's Neuralgic Cure"	H. N. Dawson	3,188	May 8	23	1736
"Dealbarine" (for a fluid, removing spots & stains)	J. H. Tucker	3,109	Mar. 27	23	1126
"Delizia di Roma" (for a Cosmetic)	E. M. Hoey	3,576	Oct. 9	25	98
"Dental amalgam"	A. H. Best	2,988	Feb. 20	23	634
"Dentaline." (for Dentifrice)	J. Smith	3,759	Dec. 11	25	984
"Deutsches Mohn Oel." (for Poppy-Seed Oil)	A. Gruning	3,297	June 19	23	2330
"Diamond Blue Label" (for Rosegrant's Patent, Chloride of Lime.)	C. Van Brunt	3,385	July 17	24	208
"Digestine" (for a Medicine)	A. Bedford and W. M. Rawson	3,779	Dec. 25	25	1194
"Digestro"	J. N. Solomons	3,048	Mar. 6	23	834
"Diphtheria Gargle"	G. L. Kemp	3,034	Mar. 6	23	834
"Directions to Fire-Escape"	E. H. Howard	3,074	Mar. 13	23	942
"Doloricide" (for a Medicine)	J. H. Wright	3,440	Aug. 14	24	606
"Dorick's Salve"	D. White	3,134	Apr. 10	23	1340
"Double Eagle" (for Baking Powder)	E. Metznaur	3,737	Dec. 4	25	886
"Double Strength Baking Powder"	K. P. Jones	3,165	Apr. 24	23	1532
"Dr. A. A. Mann's Cream of Life Pills"	A. M. Mann and E. S. Steward	3,545	Sept. 25	24	1180
"Dr. Al. Watts' Purifier," (for a Disinfectant)	A. Watts	3,761	Dec. 11	25	984
"Dr. Balle's Hustena" (For Medicinal Preparation)	C. F. With	3,053	Mar. 6	23	834
"Dr. Bass' Vegetable Liver Pills"	W. T. Sanders & Co	3,757	Dec. 11	25	984
"Dr. Bull s Cough Candy Drops"	A. C. Meyer & Co	3,127	Apr. 10	23	1340
"Dr. C. W. G. Schlemm's Wine of Dandelion and Iron"	C. W. G. Schlemm	3,023	Feb. 27	23	744
"Dr. Chevallier's Red Spruce Gum Paste." (for Cough Medicine.)	Laviolette & Nelson	3,288	June 12	23	2242
"Dr. Decker's Shakes and Malaria Cure"	W. F. Decker	3,483	Sept. 4	24	904
"Dr. E. E. Beeman's Worm Destroyer"	G. W. Chandler	3,028	Mar. 6	23	834
"Dr. F. French's Unequaled Blood Purifier and Rheumatic Remedy."	F. French & Son	3,147	Apr. 17	23	1450
"Dr. Ferd. Axt's infallible Abolition Tooth Ache Cure"	F. Axt	3,055	Mar. 13	23	942
"Dr. G. H. Tichenor's Antiseptic Refrigerant (for Wounds)"	G. H. Tichenor	3,183	May 1	23	1626
"Dr. Gallagher's Sugar Coated Pills for Rheumatism"	B. F. Gallagher	3,782	Dec. 25	25	1194
"Dr. Green's Blood Purifier"	G. S. Green	3,429	Aug. 14	24	606
"Dr. Gwinn & Baker's Celebrated Curoleum," (for a Medicine)	H. H. Gwinn and J. M. Baker	3,675	Nov. 13	25	604
"Dr. H. A. Ingham's Vegetable Expectorant Nervine Pain Extractor."	H. A. Ingham	3,164	Apr. 24	23	1532
"Dr. Henry J. Sweny's Imperial Hair Balm"	H. J. Sweny	3,370	July 10	24	104
"Dr. Henry's No. 2 Vigor Pills"	W. H. Harrison	3,452	Aug. 21	24	708
"Dr. J. K. Thomas' Medicine for the People"	J. K. Thomas	3,132	Apr. 10	23	1340
"Dr. Jos. Haas' Alterative for Horses and Cattle"	J. Haas	3,301	June 19	23	2330
"Dr. Jos. Haas' Cattle Remedy"	J. Haas	3,299	June 19	23	2330
"Dr. Jos. Haas' Colic Remedy," (for Live Stock)	J. Haas	3,303	June 19	23	2330
"Dr. Jos. Haas' Epizootic Remedy," (for Live Stock)	J. Haas	3,298	June 19	23	2330
"Dr. Jos. Haas' Fever Drops," (for Live Stock)	J. Haas	3,302	June 19	23	2330
"Dr. Jos. Haas' Lung Fever Remedy for Live Stock"	J. Haas	3,300	June 19	23	2330
"Dr. Joslin's Blood Syrup"	B. Joslin	3,122	Apr. 10	23	1340
"Dr. Joslin's Cough Syrup"	B. Joslin	3,121	Apr. 10	23	1340
"Dr. Joslin's Cough Syrup"	B. Joslin	3,123	Apr. 10	23	1340
"Dr. Kilmer's Indian Medicine Jug"	Kilmer & Co	3,563	Oct. 2	25	2
"Dr. Liebig's German Invigorator" (for a Medical Compound.)	A. C. Stoddart	3,494	Sept. 4	24	904
"Dr. Liebig's German Invigorator" (for a Medical Compound.)	A. C. Stoddart	3,495	Sept. 4	24	904
"Dr. Lyon's Powders." (for a Medical Preparation)	G. M. Fiske	3,428	Aug. 14	24	606
"Dr. Merriman's Fragrant Kalliodont" (a Dentifrice)	A. F. Merriman & Son	2,912	Jan. 16	23	196
"Dr. Messner's Indian Herb Tea"	C. A. Schuhr	3,003	Feb. 20	23	634
"Dr. Miles' Great Remedy"	F. L. Miles	3,231	May 22	23	1930
"Dr. Miller's Family Medicine." (for Stomach and Throat Diseases.)	A. Werdmüller	3,294	June 12	23	2242
"Dr. Moore's Fragrant Solace for cleansing and Preserving the Teeth."	T. Moore	3,533	Sept. 18	24	1094
"Dr. Rudd's Celebrated Flux Specific"	J. F. Rudd	3,423	Aug. 7	24	500
"Dr. Rudd's Vegetable Kidney and Rheumatic Cure"	J. F. Rudd	3,211	May 15	23	1836
"Dr. Rudd's Vegetable Liver Relief"	J. F. Rudd	3,275	June 5	23	2124
"Dr. Sanford's Liver Invigorator"	S. T. W. Sanford & Sons	3,368	July 10	24	104
"Dr. Sanford's Liver Invigorator"	S. T. W. Sanford & Sons	3,566	Oct. 2	25	2
"Dr. Sanford's Liver Invigorator." (for a Proprietary Medicine.)	S. T. W. Sanford & Sons	3,343	July 3	24	2
"Dr. Sanford's Liver Invigorator" (for a Proprietary Medicine.)	S. T. W. Sanford & Sons	3,344	July 3	24	2
"Dr. Scheeler's Great German Cure for Consumption, Coughs, Colds, etc."	H. E. Bucklen	2,886	Jan. 2	23	2
"Dr. Schultz' Medicated Cigar"	F. W. Goodwin	3,638	Oct. 30	25	398
"Dr. Schultz' Process Cigars"	F. W. Goodwin	3,751	Dec. 11	25	984
"Dr. Sequard's Vegetable Panacea," (for a Medicine)	M. M. Merrill	3,457	Aug. 21	24	708
"Dr. Seth Arnold's Cough Killer"	Dr. S. Arnold Medical Corporation	2,982	Feb. 13	23	544
"Dr. Seth Hart's Anodyne Cough Syrup"	S. Hart	3,618	Oct. 23	25	294
"Dr. Seth Hart's Napoleon Cure" (for a Medical Preparation.)	S. Hart	3,237	May 29	23	2036
"Dr. Thorp's Balsam of Life"	T. C. Thorp	3,143	Apr. 10	23	1340
"Dr. Thurman's Embrocation"	W. S. P. Thurman	3,473	Aug. 28	24	802
"Dr. Von Senden's Celebrated Fennel Honey Extract"	T. Hinrichs	3,732	Dec. 4	25	886
"Dr. W. W. Clark's Oil of Arnica"	W. W. Clark	3,586	Oct. 16	25	196

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Dr. W. W. Scott's Ague and Fever Mixture"	J. E. Scott	3,581	Oct. 9	25	98
"Dr. West's O. K. Bitters"	J. H. West	2,907	Jan. 9	23	96
"Dr. Whitesel's Blood Specific"	R. K. Dyas	3,636	Oct. 30	25	398
"Dr. Whitesel's Calisaya Bitters"	R. K. Dyas	3,177	May 1	23	1696
"Dr. Whitesel's Calisaya Bitters"	R. K. Dyas	3,633	Oct. 30	25	398
"Dr. Whitesel's German Cough Syrup"	R. K. Dyas	3,176	May 1	23	1696
"Dr. Whitesel's German Cough Syrup"	R. K. Dyas	3,634	Oct. 30	25	398
"Dr. Whitesel's German Liniment"	R. K. Dyas	3,635	Oct. 30	25	398
"Dr. Wm. Crowd's Cure for Rheumatism"	C. F. Williams and J. F. Payne	3,249	May 29	23	2036
"Dr. Wilson's Anti-Bilious Cathartic Cordial"	Francis Bros	3,031	Mar. 6	23	834
"Dresoline," (for Leather-Dressing)	C. E. Browne	3,113	Apr. 10	23	1340
"Drew's Yeast Powder"	F. L. Hooper & Co	3,676	Nov. 13	25	604
"Druid Oil" (for Liniment)	T. McGowan	3,456	Aug. 21	24	708
"Drummer Cut Plug" (for Chewing and Smoking Tobacco)	Gradle & Strotz	3,729	Dec. 4	25	886
"Dubec" (for Cigarettes)	L. Ginter	3,488	Sept. 4	24	904
"Duchess of Devonshire" (for Cigars)	Jacoby & Fromer	3,356	July 10	24	104
"Duplicate" (for Manufactured Tobacco)	A. B. Wells	3,629	Oct. 23	25	294
"Duplicate" (for Manufactured Tobacco)	A. B. Wells	3,630	Oct. 23	25	294
"Duratus" (for Petroleum Products and Petroleum and other Oils and Lubricating Compounds.)	D. L. Grant	3,673	Nov. 13	25	604
"Duryeas' Diamond Crystal Glucose"	Glen Cove Manufacturing Company	3,333	July 3	24	2
"Duryeas' Diamond X Glucose"	Glen Cove Manufacturing Company	3,332	July 3	24	2
"Duryeas' Diamond XX Glucose"	Glen Cove Manufacturing Company	3,334	July 3	24	2
"Duryeas' Diamond XXX Glucose"	Glen Cove Manufacturing Company	3,331	July 3	24	2
"Dutch Worm Syrup"	C. B. Mathis	3,716	Nov. 27	25	790
"Early York" (for Cigars)	G. K. Vincent and M. Burchard	3,412	July 31	24	394
"East India Pale Ale"	H. Clausen & Son Brewing Company	3,253	June 5	23	2134
"Eclipse," (For Cigars)	H. F. Rose	2,943	Jan. 30	23	346
"Egyptian Boy." (for Dry Goods)	J. H. Lane & Co	3,192	May 8	23	1736
"Ehijos" (For Hardware)	E. F. Bilhuber	2,969	Feb. 20	23	634
"El Arabe" (for Cigars)	Ghio & Rovira	3,613	Oct. 23	25	294
"El Coro," (for Cigars)	B. Vega	3,293	June 12	23	2342
"Elastic Asphalt Paint"	N. B. Hayes and C. F. Hopkins	3,261	June 5	23	2134
"Elastic Motion Sewing Machine"	J. H. Whitney	3,742	Dec. 4	25	886
"Elastic Motion Sewing Machine Company"	Elastic Motion Sewing Machine Company.	3,726	Dec. 4	25	886
"Elder Hook's Healing Balm," (for a Salve)	J. G. Hook	3,392	July 24	24	306
"Eli" (for Manufactured Tobacco)	A. B. Wells	3,686	Nov. 13	25	604
"Elite" (for Cigars)	Grommes & Ullrich	3,402	July 31	24	394
"Elixir of Tamarack and Wild Cherry"	R. Drake	3,257	June 5	23	2134
"Ellis' Nerve Tonic"	J. W. Ellis	3,281	June 12	23	2242
"Emerick's Hobby. Old-Fashioned Honesty" ("for Cigars, Cigarettes and Smoking Tobacco.")	J. T. Emerick	3,258	June 5	23	2134
"Emmett" "Dot's me." (for Cigars)	Weaver Bros	3,414	July 31	24	394
"Engrossing Ink"	C. M. Higgins	3,033	Mar. 6	23	834
"Eocene" (for Illuminating Oil)	Standard Oil Company	3,519	Sept. 11	24	998
"Essence Eucalypti" (for a Medicinal Preparation)	S. M. Burroughs	3,573	Oct. 9	25	98
"Eternal Ink"	C. M. Higgins	3,032	Mar. 6	23	834
"Eucalyptia" (for a Medicinal Preparation)	S. M. Burroughs	3,572	Oct. 9	25	98
"Eucalyptin" (for a Medicinal Preparation)	S. M. Burroughs	3,571	Oct. 9	25	98
"Eureka Coal Economizer"	F. E. McAllister	2,977	Feb 13	23	544
"Eureka Hoof Ointment"	Rehrig & Koons	3,438	Aug. 14	24	606
"Eureka Salve"	Campbell & Co	3,251	June 5	23	2134
"Euretta Cloth" (for Dry Goods)	J. H. Lane & Co	3,678	Nov. 13	25	604
"Ewing's Cherubs" (for Cigars)	Jacoby & Bromer	3,656	Nov. 6	25	506
"Excelsior Family Medicine"	C. A. Cheatham	3,781	Dec. 25	25	1194
"Excelsior," (For Cleaning and Removing Tarnish from Metallic and other Articles.)	A. Queman	2,962	Feb. 6	23	440
"Excelsior" (for Upholstery and Drapery Trimmings)	M. O'Brien	3,513	Sept. 11	24	998
"Exchange" (for Cigars)	Wilkowski Brothers	3,790	Dec. 25	25	1194
"Extra American Stout"	H. Clausen & Son Brewing Company	3,254	June 5	23	2134
"Extra Coach Painters'" (for Lamp Black)	L. Martin & Co	3,359	July 10	24	104
"Extra Quality" (For Hat Linings)	F. G. Hanson	3,073	Mar. 13	23	942
"Extra Quality" (for Hat Linings)	F. G. Hanson	3,418	Aug. 7	24	500
"Extras" (for Clothing)	S. Kaufman & Sons	3,531	Sept. 18	24	1094
"Family Pins"	Plume & Atwood Manufacturing Company.	3,565	Oct. 2	25	2
"Famous" (for Cigars)	Beitman Bros	3,558	Oct. 2	25	2
"Farmer's Favorite" (for Coffee)	C. Fink and A. Nasse	3,445	Aug. 14	24	606
"Farmers' Fertilizer Co"	Farmers Fertilizer Company	3,527	Sept. 18	24	1094
"Farmington Sugar Corn"	Waugh, Cothren & Williams	3,698	Nov. 20	25	702
"Farrier's Secret" (for a Veterinary Remedy)	F. I. Smith	3,213	May 15	23	1836
"Fasceleen" (for a Toilet Lotion)	D. B. Aitken	3,763	Dec. 18	25	1089
"Fast Black O. N. T." (for Thread)	Clark Thread Company	3,204	May 15	23	1836
"Fay's Wonder Soap"	H. G. Fay	3,691	Nov. 20	25	702
"Female Curator." (for Medicine)	G. W. Stewart	3,384	July 17	24	208
"Fern Bitters. The great Dyspepsia and Liver Remedy"	R. Cassady	2,897	Jan. 9	23	96
"Feuchtwanger's Disinfectant"	L. Feuchtwanger & Co	3,389	July 24	24	306
"Finlaw's Dyspepsia and Liver Cure"	J. P. Finlaw	3,449	Aug. 21	24	708
"Finlaw's King of Pain," (for a Medicine)	J. P. Finlaw	3,451	Aug. 21	24	708
"Fish Brothers Wagon Co"	Fish Bros. & Co	3,543	Sept. 25	24	1180
"Fishing Tackle"	J. Goldsmith & Son	3,296	June 19	23	2330
"Fiske's Tissue Paper Label"	G. C. Fisk	3,071	Mar. 13	23	942
"Flat Concave." (For Watch Crystals)	J. H. Purdy & Stein	3,001	Feb. 20	23	634
"Flat Lunette." (For Watch Crystals)	J. H. Purdy & Stein	2,999	Feb. 20	23	634
"Fletcher's Dry Soap"	E. Fletcher	3,768	Dec. 18	25	1089
"Fleur d'Amerique Flour"	Lyon & Co	3,266	June 5	23	2134
"Floral," (for Chemical Fertilizers)	Farmers Fertilizing Company	3,706	Nov. 27	25	790
"Fluid Diastase" (a Medicine)	W. S. Merrell Chemical Company	3,180	May 1	23	1696
"Flying Yankee," (for Cigars)	Dunbar & Co	3,655	Nov. 6	25	506
"Forest Brand, Redwood Packing Co. Los Gatos, Cal."	Los Gatos Fruit Packing Company	2,959	Feb. 6	23	440
"Fougera's Angelic Dentifrices"	C. E. Fougera	3,708	Nov. 27	25	790
"Fougera's Ready-Made Mustard Plasters"	C. E. Fougera	3,737	Dec. 4	25	886
"Fougera's Ready Mustard Plasters"	C. E. Fougera	3,709	Nov. 27	25	790

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Fox Mountain," (for Whisky)	Brown, Thompson & Co	3,172	May 1	23	1626
"Franklin Howes' Charm," (For a Liniment)	F. Howes	3,015	Feb. 27	23	744
"Fred. C. Edler s Manhattan Animal and Poultry Foods"	F. C. Edler	3,748	Dec. 11	25	984
"Fred. Stevens' Unfailing Cough Cure"	F. S. Stevens	3,216	May 15	23	1836
"Fred. Wolfean's Golden Gate Tonic"	F. Wolfean	3,688	Nov. 13	25	604
"French Soap"	G. Hasley	3,507	Sept. 11	24	998
"Fresh" (for Cigars)	Jacoby & Fromer	3,357	July 10	24	104
"Fresh Deviled Crabs"	McMenamin & Co	2,923	Jan. 16	23	196
"Fruit Cream," (For Beverages)	Gamotis Bros	2,947	Jan. 30	23	348
"Fruitaline" (for a Chemical Compound)	M. Nelson	3,408	July 31	24	394
"G. B.' (for Cigars)	Spaar Bros	3,665	Nov. 6	25	506
"G. & T." (for Cigars)	Goddin & Tribbitt	3,750	Dec. 11	25	984
"Galvanic Liniment"	J. M. Fulton	3,561	Oct. 2	25	2
"Galvanic Oil"	W. W. Henry & Co	3,375	July 17	24	208
"Galvanic Oil"	G. W. Neasse & Co	3,366	July 10	24	104
"Garfield Malaria Antidote"	J. B. Bebler	3,479	Sept. 4	24	904
"Garney, Brown & Co's Regulars," (for Cigars)	Garney, Brown & Co	3,711	Nov. 27	25	790
"Geneva" (For Watch Crystals")	J. H. Purdy & Stein	2,998	Feb. 20	23	634
"German Complexion or Skin Soap"	W. H. Carslake	3,526	Sept. 18	24	1094
"German Cough Remedy"	S. M. Cooper	3,482	Sept. 4	24	904
"German Red Cross Kidney Cure"	E. Van Brocklin	3,667	Nov. 6	25	506
"German Stomach Powder"	J. J. F. Popp	3,419	Aug. 7	25	500
"Germania Tube Ointment"	Arnold & Weaver	3,744	Dec. 11	25	984
"Germantown," (for Lamp Black)	L. Martin & Co	3,365	July 10	24	104
"Gerster" (for Dry Goods)	Folwell Bro. & Co	3,313	June 26	24	2416
"Giant Baking Powder"	C. L. Williams	3,539	Sept. 18	24	1004
"Giant Cement" (for repairing broken articles)	C. L. Williams	3,537	Sept. 18	24	1094
"Gilbert S. Graves' Imperial Baking Powder"	G. S. Graves	3,484	Sept. 4	24	904
"Gingermint" (for Medicine)	S. M. Cooper	3,481	Sept. 4	24	904
"Glenwood" (for Whisky)	J. Lawson & Son	3,679	Nov. 13	25	604
"Globe Ointment"	C. H. Modisett	2,978	Feb. 13	23	544
"Globe Plaster"	C. H. Modisett	2,960	Feb. 6	23	440
"Glycerine and Rice Face-Powder"	H. Loftie	3,695	Nov. 20	25	702
"Glycerine Pectina," (for Chapped Hands, Lips, &c)	R. E. Smith	3,194	May 8	23	1736
"Goddard & Fraser's Amber Enamel," (for Earthen and Other Wares.)	Goddard & Fraser	3,148	Apr. 17	23	1450
"Golden Anchor" (for Liniment)	J. W. Jones	3,694	Nov. 20	25	702
"Golden Butter Color"	D. F. Shull & Co	3,080	Mar. 13	23	942
"Golden Grain Whiskey"	E. N. Cook & Co	3,387	July 24	24	306
"Golden Spike" (for Cigars)	A. Deez	3,654	Nov. 6	25	506
"Golden Star Spirit" (for Lamp Black)	L. Martin & Co	3,362	July 10	24	104
"Gov. Glick's Choice," (for Cigars)	Tuchman Bros	3,108	Mar. 27	23	1126
"Goodwin's Oatmeal Bitters"	F. W. Goodwin	3,398	July 31	24	394
"20 Grain Mixture Injection"	M. J. Breitenbach	3,585	Oct. 16	25	196
"Grand Master" (For Cigar Boxes)	C. A. Yale	3,054	Mar. 6	23	834
"Grand Success," (For Cigars, Cigarettes, and Smoking Tobacco.)	J. Stahl	2,984	Feb. 13	23	544
"Grandee" (for Smoking & Chewing Tobacco)	G. W. Gail & Ax	3,225	May 22	23	1930
"Granulated" (for Flour)	Sidle Fletcher Holmes Company	3,244	May 29	23	2036
"Gravity-Sash Locks"	Kempshall Manufacturing Company	3,319	June 26	23	2416
"Green Seal Baking Powder"	Ridenour, Baker & Co	3,167	Apr. 24	23	1532
"Griggs' Kaloderma." (for a Proprietary Medicine)	O. Griggs	3,730	Dec. 4	25	886
"Gutta Percha Court Plaster"	C. B. Robbins	2,914	Jan. 16	23	196
"H. W. Perry & Co.'s National." (for Plug Tobacco)	H. W. Perry & Co	3,681	Nov. 13	25	604
"Ha! Ha! Cough Drops"	Northup & Penman	3,661	Nov. 6	25	506
"Hall's Improved Cough Remedy, Sanguinariana or Blood Root Compound"	Hall Chemical Company	2,991	Feb. 20	23	634
"Hamburger Cough Syrup"	Stauff & Foster	3,081	Mar. 13	23	942
"Hammond's Slug Shot"	B. Hammond	3,260	June 5	23	2124
"Hampton Couch"	R. C. Millings	3,232	May 22	23	1930
"Harrison's Golden Cologne Water"	A. W. Harrison	3,731	Dec. 4	25	886
"Hazeline" (for a Medical Preparation)	S. M. Burroughs	3,570	Oct. 9	25	98
"Headache Drops"	L. E. Keeley	2,910	Jan. 16	23	196
"Headache Liniment"	L. E. Keeley	2,911	Jan. 16	23	196
"Headlight Tomatoes"	Marshall Canning Company	3,394	July 24	24	306
"Heil Anstalt," (for Medicinal Preparations)	H. Timms	3,684	Nov. 13	25	604
"Heinz's Catsup"	F. & J. Heinz	2,974	Feb. 13	23	544
"Heinz's Jelly"	F. & J. Heinz	3,012	Feb. 27	23	744
"Heinz's Radish"	F. & J. Heinz	3,013	Feb. 27	23	744
"Henderson's School Shoes"	C. M. Henderson & Co	3,391	July 24	24	306
"Henry's Remedy for Cholera &c"	T. H. McNellis	3,512	Sept. 18	24	1094
"Hickman's Hair Reviver"	Hickman Bros	3,149	Apr. 17	23	1450
"Higgins Baking Powder"	W. A. Higgins & Co	2,932	Jan. 30	23	348
"Higgins' Balsamic Lotion" (for a Medicine)	G. E. Higgins	3,262	June 5	23	2124
"High Life" (for Cologne)	H. J. Gordon	3,316	June 26	23	2416
"High Lunette," (For Watch Crystals)	J. H. Purdy & Stein	3,000	Feb. 20	23	634
"High School Index." (for a Periodical Publication)	C. H. J. Douglas	3,690	Nov. 20	25	702
"Highland" (For Printed Cotton Fabrics)	V. H. Rothschild & Co	2,980	Feb. 13	23	544
"Hill's East Indian Manioca." (for a Preparation of Tapioca)	R. F. Hill	3,752	Dec. 11	25	984
"Hindoo Corn Remover"	A. L. Townsley	2,985	Feb. 13	23	544
"Hoadley's Blood Orange Pellets"	E. J. Hoadley	3,337	July 3	24	2
"Hoadley's Cough Drops Label"	E. J. Hoadley	3,178	May 1	23	1626
"Hoadley's Jamaica Ginger Tablets"	E. J. Hoadley	3,336	July 3	24	2
"Hoadley's Lime Fruit Tablets"	E. J. Hoadley	3,338	July 3	24	2
"Hobb's Gout and Rheumatic Remedy"	W. H. Short	3,024	Feb. 27	23	744
"Holland Universal Stomach Bitters"	A. Orth	3,103	Mar. 27	23	1126
"Holt's German Cologne"	A. Doussan	3,161	Apr. 24	23	1532
"Home," (for Cigars)	Wemple & Co	3,276	June 5	23	2124
"Home Flour Mills"	J. J. De Pombo	3,503	Sept. 11	24	998
"Honest Box" (for Laundry Blue)	Main Bros. & Co	3,378	July 17	24	208
"Honest John Shaker Yeast"	H. Taylor	3,322	June 26	23	2416
"Honey Bee" (for Plug Tobacco)	J. H. Harris' Sons	3,615	Oct. 23	25	294
"Hop Oil"	O. G. Smith	2,905	Jan. 9	23	96
"Hop Pills"	G. R. Lyon	3,735	Dec. 4	25	886

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Horehound Balsam" (for a Cough Sirup)	F. E. Eaton	3,505	Sept. 11	24	998
"Horn's Telephone Cough Syrup, The Wonder of Cough Syrups."	C. W. Horn	3,355	July 10	24	104
"Horn's Telephone Liniment King of all Liniments"	C. W. Horn	3,263	June 5	23	2124
"Howard Brand" (For Jelly)	F. & J. Heinz	3,014	Feb. 27	23	744
"Hoyt's German Cologne"	E. W. Hoyt & Co	3,770	Dec. 18	25	1082
"Hunt's Medicated Tar Drops"	Vogeler, Winkelmann & Co	3 050	Mar. 6	23	834
"Husband's Calcined Magnesia," (for a Medicine)	T. J. Husband	3,264	June 5	23	2124
"Hygeia" (for Effervescent Beverages)	F. T. King	3,771	Dec. 18	25	1082
"Hygienic Elixir"	R. H. McDonald & Co	3,017	Feb. 27	23	744
"I am the Excelsior Cough Syrup"	C. W. Potter	3,239	May 29	23	2036
"I Sing Lass," (for Isinglass or similar Merchandise)	E. R. T. Williams	3,584	Oct. 9	25	98
"Imperial Anti-Squeak Norwegian Tar Felting"	S. L. Merchant & Co	3,717	Nov. 27	25	790
"Imperial Portland Cement"	S. L. Merchant & Co	3,718	Nov. 27	25	790
"Imperial Russian Gut" (for Violin Strings)	J. H. Foote	3,568	Oct. 16	25	196
"Imperial Trimming"	H. Maul & Co	2,946	Jan. 30	23	348
"Improved Coach Painters'" (for Lamp Black)	L. Martin & Co	3,361	July 10	24	104
"Indian Diarrhœa Cure"	H. A. Fowler	2,971	Feb. 13	23	544
"Ingrain Carpet"	Hood, Bonbright & Co	3,353	July 10	24	104
"Ingrain Carpet"	Hood, Bonbright & Co	3,354	July 10	24	104
"Injection De Mandolena by Dr. Mills"	J. C. Mills	3,407	July 31	24	394
"Insecticide"	J. E. McCambridge	3,077	Mar. 13	23	942
"Invincibles" (For Cigar Boxes)	Jacoby & Fromer	3,016	Feb. 27	23	744
"Iron Cross Brand." (for Groceries)	Meyer Brothers & Co	3,774	Dec. 18	25	1082
"Ives' Catarrh Cream"	F. Ives	3,076	Mar. 13	23	942
"Ivorine" (for a Liquid Tooth Wash)	M. L. Fornwalt	3,315	June 26	23	2416
"J. Berman's Anointine"	J. Berman	3,088	Mar. 20	23	1036
"J. H. Hamm's Emollient"	J. H. Hamm	3,139	Apr. 10	23	1340
"James Meyer, Jr's, New Inodorous Germicide"	J. Meyer, Jr	3,230	May 22	23	1930
"James Meyer, Jr's, New Inodorous Germicide, Solution of Alumina."	J. Meyer, Jr	3,432	Aug. 14	24	606
"Japanese Oil" (for a Medicated Compound)	Japanese Oil Company	3,639	Oct. 30	25	398
"Jersey Butter Color"	T. L. Corwin	3,175	May 1	23	1696
"Jersey Lily." (For Cigars)	H. Ellis & Co	2,954	Feb. 6	23	440
"Jersey Lily" (For Flour)	Hillyer & Tileston	3,091	Mar. 20	23	1036
"Jet Black O. N. T." (for Thread)	Clark Thread Company	3,203	May 15	23	1836
"John H. Lyon's Precious Ointment"	J. H. Lyon	3,772	Dec. 18	28	1082
"John Yannes Bottle Mark"	J. Yannes	3,650	Oct. 30	25	398
"John's Magic Pain King"	C. A. Fonerden	3,528	Sept. 18	24	1094
"Johnston's Caustic Oil"	A. L. Johnston	3,139	Apr. 10	23	1340
"Joint Cement" (for repairing broken articles)	C. L. Williams	3,538	Sept. 18	24	1094
"Jones' Glycerine Arnica Salve"	S. A. Jones and J. P. Primley	3,671	Nov. 6	25	506
"K. L." (for Bread)	J. J. Weigel	3,475	Aug. 28	24	802
"Kaiser-Sprudel" (for Natural Mineral Water)	Luyties Brothers	3,525	Sept. 18	24	1094
"Kansas City Preserving Co." (for Jellies, Jams, &c)	Forrester & Cook	3,653	Nov. 6	25	506
"Kean's Kidney and Back Plaster"	G. L. Burnside	3,278	June 12	23	2242
"Kemp's Balsam for the Throat & Lungs"	O. F. Woodward	3,158	Apr. 17	23	1450
"King of Liniments"	A. Erikson	3,349	July 10	24	104
"Knickerbocker Subscription Agency." (for a Catalogue)	J. H. Ireland and W. J. Russell	3,786	Dec. 25	25	1194
"Knights of Labor" (for Tobacco)	Wellman & Dwiro Tobacco Company.	3,518	Sept. 11	24	998
"Knitting Cotton"	J. M. Pevey	3,682	Nov. 13	25	604
"Kolb's Ossapadentine"	W. B. T. Davis	3,187	May 8	23	1736
"La America" (for Beer)	C. H. Schoch	3,494	Aug. 7	24	500
"La Redentora" (for Flour)	J. J. De Pombo	3,504	Sept. 11	24	998
"Ladies Favorite French Soap"	G. Hasley	3,508	Sept. 11	24	998
"Lady Vere Tooth Powder"	A. M. V. Davenport	3,632	Oct. 30	25	398
"Lassell's All-Healing Balsam"	E. W. Lassell	3,150	Apr. 17	23	1450
"Lavarre's Sure Cure"	G. M. Phillips	2,930	Jan. 23	22	274
"Laxative Tonic Extracts"	Hegeman & Co	2,993	Feb. 20	23	634
"Le Boutillier's Marvelous Catarrh Cure"	A. Le Boutillier	3,522	Sept. 18	24	1094
"Lemon Bloom" (for Prepared Lemon Juice)	J. C. Gamble	3,590	Oct. 16	25	196
"Lena" (for Cigars)	B. Payn's Sons	3,471	Aug. 28	24	802
"Leonard's Selling Tickets" (for Lamps, Pendants, and Chandeliers.)	C. H. Leonard	3,734	Dec 4	25	886
"Levis Brothers Twins." (for Fine-Cut Tobacco)	Levis Bros	3,736	Dec. 4	25	886
"Linimento Excelsior De Bechtel"	W. H. Bechtel	3,652	Nov. 6	25	506
"Lilt Hop" (For Rheumatic Remedy)	Lilienthal & Bishop	3,093	Mar. 20	23	1036
"Lime and Rye"	Cook & Bernheimer	3,066	Mar. 13	23	942
"Lime and Wheat"	Cook & Bernheimer	3,062	Mar. 13	23	942
"Lime Kiln Club" (for Cigars)	Ithaca Cigar Manufacturing Company.	3,284	June 12	23	2242
"Lime, Rye and Wheat"	Cook & Bernheimer	3,061	Mar. 13	23	942
"Lime, Wheat and Rye"	Cook & Bernheimer	3,069	Mar. 13	23	942
"Liquid Coffee"	Fels & Co	3,137	Apr. 10	23	1340
"Liquid Court Plaster"	H. G. Case & Co	3,057	Mar. 13	23	942
"Liquid Electricity" (For Medicine)	J. Hastings	3,011	Feb. 27	23	744
"Little Blackwood" (for Cigars)	J. Schlauch	3,106	Mar. 27	23	1126
"Little Daisy" (For a Carbonated Beverage)	H. Thornton & Co	2,939	Jan. 30	23	348
"Little Darling" (for Washing Compound)	J. G. Haynes, W. B. Miller, M. E. and I. Bloom.	3,784	Dec. 25	25	1194
"Love Me" (for Cigars)	Goddin & Tribbett	3,712	Nov. 27	25	790
"Lowe's Cresylic Stock Remedy," (for Diseases of Animals)	J. P. Barnett	2,927	Jan. 23	23	274
"Lowe's Jack Rabbit Sheep Dip"	J. P. Barnett	3,087	Mar. 20	23	1036
"Lowrey's Indian Vegetable Chill Pills"	J. T. Lowrey	3,622	Oct. 23	25	294
"Luck," (for Smoking and Cigarette Tobacco)	A. B. Frank & Co	2,888	Jan. 2	23	2
"Lucky Hit," (for Cigars)	Jacoby & Fromer	3,238	May 29	23	2036
"Ludgate & Co." (for Tip Linings of Hats)	F. G. Hanson	3,783	Dec. 25	25	1194
"Lustra Painting & Embroidering." (For Colors for Painting.)	R. H. Bragdon	2,896	Jan. 9	23	96
"Lynch's Celebrated Dyspepsia Cordial"	M. A. Lynch	3,623	Oct. 23	25	294
"M. Poncet's Invaluable Remedy for Small Pox"	M. Poncet	3,019	Feb. 27	23	744
"Macrame Cord"	J. M. Pevey	3,602	Nov. 6	25	506
"Madam Caroline's White Pine Beautifier for the Complexion."	C. L. Collins	3,480	Sept. 4	24	904

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Madame Lewenberg's Pastilles de Florence" (for the Complexion.)	C. Lewenberg	3,358	July 10	24	104
"Madison Dress Styles" (for Dry Goods)	Coffin, Altemus & Co	3,767	Dec. 18	25	1984
"Madison Staple Styles." (for Dry Goods)	Coffin, Altemus & Co	3,766	Dec. 18	25	1082
"Magic Glove and Clothes Cleaner"	N. W. Griswold	3,713	Nov. 27	25	790
"Magnolia" (for Manufactured and Smoking Tobacco)	A. B. Wells	3,685	Nov. 13	25	604
"Mandarin Chop" (for Tea)	Cassidy & Co	3,186	May 8	23	1736
"Manhattan Blood Guano"	E. F. Cooke	3,007	Feb. 27	23	744
"Mann's American Rail-Road Copying Paper"	W. Mann	3,039	Mar. 6	23	834
"Mann's Parchment Copying Paper"	W. Mann	3,038	Mar. 6	23	834
"Mann's Parchment Paper Copying Books"	W. Mann	3,037	Mar. 6	23	834
"Mann's Remedy" (for a Patent Medicine)	D. R. O'Lalor	3,289	June 12	23	2242
"Mann's White Commercial Copying Books"	W. Mann	3,035	Mar. 6	23	834
"Mann's White Linen Letter Copying Books"	W. Mann	3,036	Mar. 6	23	834
"Marion Mills." (For Paper)	S. A. Rudolph's Sons & Co	2,963	Feb. 6	23	440
"Marshall Canning Co.," (for Canned Corn)	Marshall Canning Company	3,431	Aug. 14	24	606
"Mason's Compound Soap"	H. G. Fay	3,119	Apr. 10	23	1340
"Matheus & Minick Double Quick Wood Filler"	Matheus & Minick Filler Co	3,511	Sept. 11	24	998
"Maud Muller" (for Cigar Boxes)	F. Lewis & Bro	3,560	Oct. 2	25	2
"McClelland's Anti-constipation Pills"	J. M. McClelland	2,891	Jan. 2	23	2
"McIntosh & Co., U. S. A." (for Shoes, Boots, and Slippers)	McIntosh & Co	3,339	July 3	24	2
"Medicinal Temperance Drink"	J. Bard	3,557	Oct. 2	25	2
"Medical Wonder"	R. B. Robison	3,472	Aug. 28	24	802
"Melange" (for Dry Goods)	Folwell Bro. & Co	3,314	June 26	23	2416
"Metallic Tablet and Razor Strop"	G. F. Saunders	2,981	Feb. 13	23	544
"Metho-Glycerole of Bismuth and Hydrastia." (for a Medicine.)	Chapman, Green & Co	3,442	Aug. 14	24	606
"Mexican Palmea." (for Soap)	B. Z. Taylor & Co	3,197	May 8	23	1736
"Meyer's Pine Apple Lemonade"	F. R. Meyer	3,267	June 5	23	2124
"Mi Concave." (For Watch Crystals)	J. H. Purdy & Stein	2,997	Feb. 20	23	634
"Miner's Comfort" (for Coffee)	C. Fink and A. Nasse	3,446	Aug. 14	24	606
"Minnehaha" (for Flour)	Sidle Fletcher Holmes Company	3,243	May 29	23	2036
"Mode of Distributing Money Dodgers" (for Blank Books, Stationery, and other like Articles.)	J. S. Rivers	3,410	July 31	24	394
"Mohawk Belle" (For Whisky)	Clayton & Webb	3,089	Mar. 20	23	1036
"Monopole Turkish Tobacco and Cigarette Manufactory." (for Prepared Tobacco, Cigarettes Especially.)	J. Huppmann	3,469	Aug. 28	24	802
"Montgomery Crackers"	T. H. Carr	3,574	Oct. 9	25	98
"Moore's Sulphur Dip"	C. E. Williams & Co	3,111	Mar. 27	23	1126
"Morning Whiff" (for Cigars)	W. Newman	3,435	Aug. 14	24	606
"Morrison & Deprez' Horse and Cattle Powder"	Morrison & Deprez	3,018	Feb. 27	23	744
"Morse's Asparagus Kidney Cure"	C. H. Morse	3,095	Mar. 20	23	1036
"Morse's Compound Cough Syrup"	C. H. Morse	3,459	Aug. 21	24	708
"Moth Proof" (For Carpet Lining Paper)	Haldeman Paper Company	2,901	Jan. 9	23	96
"Mother's Friend," (for Pills)	M. J. Smith	3,130	Apr. 10	23	1340
"Mountain Valley Springs Co." (for Natural Mineral Water.)	Mountain Valley Springs Company	3,268	June 5	23	2124
"Mountain Valley Water" (for Natural Mineral Water)	Mountain Valley Springs Company	3,269	June 5	23	2124
"Mrs. Breakwell's Sugar-Coated Anti-Bilious Tonic Pills"	J. and S. J. Breakwell	2,966	Feb. 13	23	544
"Mrs. Cary's Compound" (for a Medical Preparation)	S. E. McIntosh	3,754	Dec. 11	25	984
"Mrs Day's Baby Cordial"	C. E. Houghtaling and G. E. Ferguson.	3,510	Sept. 11	24	998
"Mrs Day's Worm Remedy"	C. E. Houghtaling and G. E. Ferguson.	3,509	Sept. 11	24	998
"Muellenbach's Compound Balsam of Honey and Tolu"	Weismann & Muellenbach	2,945	Jan. 30	23	348
"My Choice Dentifrice"	J. E. Edmundson	3,329	July 3	24	2
"My Horse Shoe & Bee Label," (for General Merchandise)	J. N. Kline	3,376	July 17	24	206
"My Maryland Bitters"	W. L. Morse	2,965	Feb. 6	23	440
"N. K. Brown's Iron and Quinine Bitters"	N. K. Brown	2,967	Feb. 13	23	544
"Narrow Gauge Brand, Los Gatos Fruit Packing Co. Los Gatos, Cal."	Los Gatos Fruit Packing Company	2,958	Feb. 6	23	440
"Nature's Cure from the Wild Woods," (for a Medical Compound.)	Stevens Manufacturing Company	3,308	June 19	23	2330
"Ne Plus Ultra" (for Plug Tobacco)	J. H. Harris' Sons	3,616	Oct. 23	25	294
"Ne Plus Ultra Parlor Match"	A. Grafke & Co	3,487	Sept. 4	24	904
"Necat" (Poison for Animals)	C. Williams	2,899	Jan. 9	23	96
"Neurotoxic," (a Remedy for Neuralgia)	Neurotoxic Manufacturing Company.	3,306	June 19	23	2330
"Nevajo Ague Cure"	T. A. Wilson	3,169	Apr. 24	23	1532
"New York Cigar Factory"	C. A. Bayler	3,521	Sept. 18	24	1094
"New Zealand Sheep Dip"	A. H. Swan and R. M. Johnson	3,309	June 19	23	2330
"Newton's Evolution Soap"	Newton Brothers & Co	3,596	Oct. 16	25	196
"Niagara Spray Cologne"	C. O'Loughlin	3,680	Nov. 13	25	604
"Nickel Plate" (for Cigars)	J. Rogan	3,157	Apr. 17	23	1450
"Nickle Plate," (for Smoking Tobacco)	H. Breitweiser & Bros	3,221	May 22	23	1930
"Nitrogenized Iron"	Chapman, Green & Co	3,160	Apr. 24	23	1532
"No. 1" (For Buck Purses)	B. Dreyfuss	3,070	Mar. 13	23	942
"Noelle's Celebrated Peruvian Bitters"	C. Noelle & Co	3,775	Dec. 18	25	1082
"Nonporous," (for Leather Belting)	American Oak Leather Company	2,885	Jan. 2	23	2
"O. K. Borax Soap"	O. K. Soap Co	3,644	Oct. 30	25	308
"O. K. Velvet Ribbon"	R. A. Elsberg	2,955	Feb. 6	23	440
"O'Meara's Royal Glue"	J. U. O'Meara	2,979	Feb. 13	23	544
"Oake's Balm of Life" (for a Medicine)	J. E. Oakes	3,514	Sept. 11	24	998
"Octimatus," (for Cigars)	W. D. Newton	3,460	Aug. 21	24	708
"Old Dr. Malcolm's Hop Porousad Plaster"	H. M. Gross	3,010	Feb. 27	23	744
"Old Forrester Bourbon"	Brown, Thompson & Co	3,173	May 1	23	1626
"Old Homestead Wild Cherry Bitters"	G. Scott	3,307	June 19	23	2330
"Old Soap"	Cornwall & Brother	3,118	Apr. 10	23	1340
"Old Standard," (for Lamp Black)	L. Martin & Co	3,560	July 10	24	104
"Old Texan Ointment"	A. Smith	3,025	Feb. 27	23	744
"Orange-Leaf" (for a Liniment)	W. L. Maulfair	3,696	Nov. 20	25	702
"Oriole Assorted Jellies"	C. G. Summers & Co	3,181	May 1	23	1926
"Our Eagle" (for Cigars, Cigarettes, and Smoking Tobacco)	J. Stahl	3,461	Aug. 21	24	708
"Our Govenor." (For Cigars)	G. T. Warren	3,051	Mar. 6	23	834

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Our Own" (for Saddlery Hardware)	R. S. Luqueer & Co	3,265	June 5	23	2124
"Oxford Hash" (for Smoking Tobacco)	L. Ginter	3,390	July 24	24	306
"Oxymurin" (For a Remedy)	G. H. Merkel	3,094	Mar. 20	23	1036
"Palmer's Indian Remedy for External and Internal Use"	C. C. Palmer	2,996	Feb. 20	23	634
"Pappoose"	Schumacher & Ettlinger	3,041	Mar. 6	23	834
"Paradise" (for Tobacco)	G. W. Gail & Ax	3,224	May 22	23	1930
"Parker's Tonic"	Hiscox & Co	3,206	May 15	23	1836
"Parker's Tonic"	Hiscox & Co	3,207	May 15	23	1836
"Parlor City" (for Cigars)	H. Westcott Son & Co	3,372	July 10	24	104
"Parnell" (for Cigars)	E. Newberger	3,577	Oct. 9	25	98
"Patrolman" (for Collars and Cuffs)	L. W. Bitting	3,347	July 10	24	104
"Pay Day" (for Plug Tobacco)	J. H. Harris' Sons	3 614	Oct. 23	25	294
"Peacock" (for Cigars)	S. Hernsheim & Bro	3,430	Aug. 14	24	606
"Pearl" (for Flour)	G. Urban & Co	3,499	Sept. 4	24	904
"Pearl-White Oil." (for Carbon Oil)	I. Davis	3,747	Dec. 11	25	984
"Peek-a-Boo." (for Cigars)	Jacoby & Fromer	3,191	May 8	23	1736
"Peerless Fire Proof Roof Paint"	Dickinson & Allie	3,280	June 12	23	2242
"Peerless Flavoring Extracts"	A. E. Raze	2,893	Jan. 2	23	2
"Peoples Choice." (For Cigars)	M. Ephraim	3,009	Feb. 27	23	744
"Pepsin Bitters"	F. Parker, A. L. Vandewater, and T. G. Talmage.	3,755	Dec. 11	25	984
"Percuro Cough Syrup"	N. D. Toppan	3,027	Feb. 27	23	744
"Perfect Pastry Patent Flour"	Wyly & Greene	3,220	May 15	23	1836
"Persian" (for Flour)	Sidle Fletcher Holmes Company	3,245	May 29	23	2036
"Peterson's Improved Celebrated Medicated Soap Liniment"	C. W. England	3,725	Dec. 4	25	886
"Petrolatum, U. S. P." (For a Medicinal Preparation)	E. F. Houghton & Co	2,933	Jan. 30	23	348
"Phillips' Opalite" (for a Filler)	C. C. Phillips	3,598	Oct. 16	25	196
"Pickit's Purifying Syrup" (for a Medicine)	J. B. Pickit	3,516	Sept. 11	24	998
"Pick's Magic Mixture" (for a Medicine)	I. I. Plass	3,534	Sept. 18	24	1094
"Pickwick Club" (for Cigars)	Grommes & Ullrich	3,403	July 31	24	394
"Piedra Brazil" (for Razor Hones)	T. A. Kochs	3,286	June 12	23	2242
"Pildoras del Doctor Carey"	Carey & Co	3,780	Dec. 25	25	1194
"Pilla-Solvene" (for a Hair Solvent)	A. H. Wilcox	3,324	June 26	23	2416
"Pillow Inhaler"	J. W. Snyder	3,195	May 8	23	1736
"Pilules for the People"	I. Bidaman	3,185	May 8	23	1736
"Pint English" (for Celery Sauce)	F. & J. Heinz	3,317	June 26	23	2416
"Pioneer Coffee Settler"	J. H. Robinson Medical Manufacturing Company.	3,342	July 3	24	2
"Pioneer's Pride," (for Coffee)	C. Fink and A. Nasse	3,443	Aug. 14	24	606
"Pleasant Mountain Sugar Corn Oriental Brand"	H. F. Webb	2,917	Jan. 16	23	196
"Pluck" (for Manufactured Tobacco)	A. B. Wells	3,536	Sept. 18	24	1094
"Poke" (For Head Coverings)	Rogers & Co	3,002	Feb. 20	23	634
"Poland Water," (for Poland Mineral Spring Water)	H. Ricker & Sons	3,273	June 5	23	2124
"Polar Belt Dressing"	A. Q. Southwick	3,004	Feb. 20	23	634
"Potts' Great Southern Worm Circles"	S. T. Potts	3,579	Oct. 9	25	98
"Potts' Long Leaf Liniment"	S. T. Potts	3,580	Oct. 9	25	98
"Potts' Will Cure Liniment"	S. T. Potts	3,578	Oct. 9	25	98
"Powers' Specific"	E. C. Powers	3,155	Apr. 17	23	1450
"Premium Trunk Brand" (for Coffee)	F. Sutton & Co	3,182	May 1	23	1626
"Pride of the State" (for Flour)	Meyer & Bulte	3,592	Oct. 16	25	196
"Primley's Iron and Wahoo Tonic"	S. A. Jones and J. P. Primley	3,669	Nov. 6	25	506
"Primley's Speedy Cure for Coughs and Colds"	S. A. Jones and J. P. Primley	3,670	Nov. 6	25	506
"Professor Harry Robinson's Specific Lotion"	H. Robinson	3,756	Dec. 11	25	984
"Progress" (for Cigars)	F. Gaertner	3,189	May 8	23	1736
"Prussian Heave Powders"	G. Phipps	3,380	July 17	24	208
"Purity" (for Petroleum Products and Petroleum and other Oils and Lubricating Compounds.)	D. L. Grant	3,674	Nov. 13	25	604
"Purity, The New Disinfectant"	E. P. Bingham and C. E. Bennison	2,895	Jan. 9	23	96
"Putnam Phalanx" (for Cigars)	W. B. Drake	3,541	Sept. 25	24	1180
"Pyrophosphated Iron Water"	C. L. Keppler	3,125	Apr. 10	23	1340
"Queen of the Forest," (for Medicine)	J. P. Finlaw	3,450	Aug. 21	24	708
"Quigley's Consumption and Asthma Cure"	W. G. Quigley	3,193	May 8	23	1736
"Quinine Cigars"	Jacoby & Fromer	3,285	June 12	23	2242
"Ramon's Genuine Nerve and Bone Oil"	Spencer & Brown	3,740	Dec. 4	25	886
"Ranchero," (for Smoking and Cigarette Tobacco)	A. B. Frank & Co	2,889	Jan. 2	23	2
"Randall's Pocket Case of Homœpathic Medicines for Travelers and Families"	L. P. Randall	3,420	Aug. 7	24	500
"Raymond's Pectoral Plaster"	G. T. Raymond	3,021	Feb. 27	23	744
"Ready Rising" (for Wheat, Corn, and Buckwheat Flour)	H. B. Cathers	3,559	Oct. 2	25	2
"Red Liniment"	W. S. Taylor	3,323	June 26	23	2416
"Red Seal White Lead"	W. Waterall & Co	3,084	Mar. 13	23	942
"Reduced Tax" (for Cigars)	H. Dirksen	3,222	May 22	23	1930
"Reidy's Scratch Ointment"	P. A. Reidy	3,321	June 26	23	2416
"Rejuvenator." (for Cigars)	Sackett, Wilhelms & Betzig	3,697	Nov. 20	25	702
"Restein's Indicator." (for Checks, Notes, Drafts, &c)	J. Restein	3,290	June 12	23	2242
"Restein's Indicator No. 2." (for Checks, Notes, Drafts, &c)	J. Restein	3,291	June 12	23	2242
"Retzer's Brown Salve"	E. D. Retzer	2,925	Jan. 16	23	196
9143 "Rheumatic Cure"	C. H. Hammit	3,529	Sept. 18	24	1094
"Rheumatic Syrup"	J. Foster, Jr	3,223	May 22	23	1930
"Rhine Wine"	Luyties Brothers	3,453	Aug. 21	24	708
"Richardson's Cough Cure"	A. M. Richardson	2,942	Jan. 30	23	348
"Ridgway's Acme Liniment"	S. Ridgway	3,341	July 3	24	2
"Rock and Chamomile" (for a Medicinal Preparation)	Cook & Bernheimer	3,607	Oct. 23	25	294
"Rock, Chamomile and Rye" (for a Medicinal Preparation)	Cook & Bernheimer	3,608	Oct. 23	25	294
"Rock, Rye and Chamomile" (for a Medicinal Preparation)	Cook & Bernheimer	3,603	Oct. 23	25	294
"Roman Art Colors"	F. R. Evans	3,102	Mar. 27	23	1126
"Root and Herb Remedy"	C. A. Thomas	3,600	Oct. 16	25	196
"Ror-To-Pi-Co-Ine." (for a Medicine)	C. E. Lloyd	3,208	May 15	23	1836
"Rosendale Hydraulic Cement"	New York and Rosendale Cement Company.	3,512	Sept. 11	24	998
"Rowley's Rough on Rheumatism"	R. E. Rowley	3,638	Oct. 23	25	294
"Rye and Chamomile" (for a Medicinal Preparation)	Cook & Bernheimer	3,604	Oct. 23	25	294
"Rye and Lime"	Cook & Bernheimer	3,058	Mar. 13	23	942
"Rye and Wheat"	Cook & Bernheimer	3,065	Mar. 13	23	942

Alphabetical list of labels—Continued.

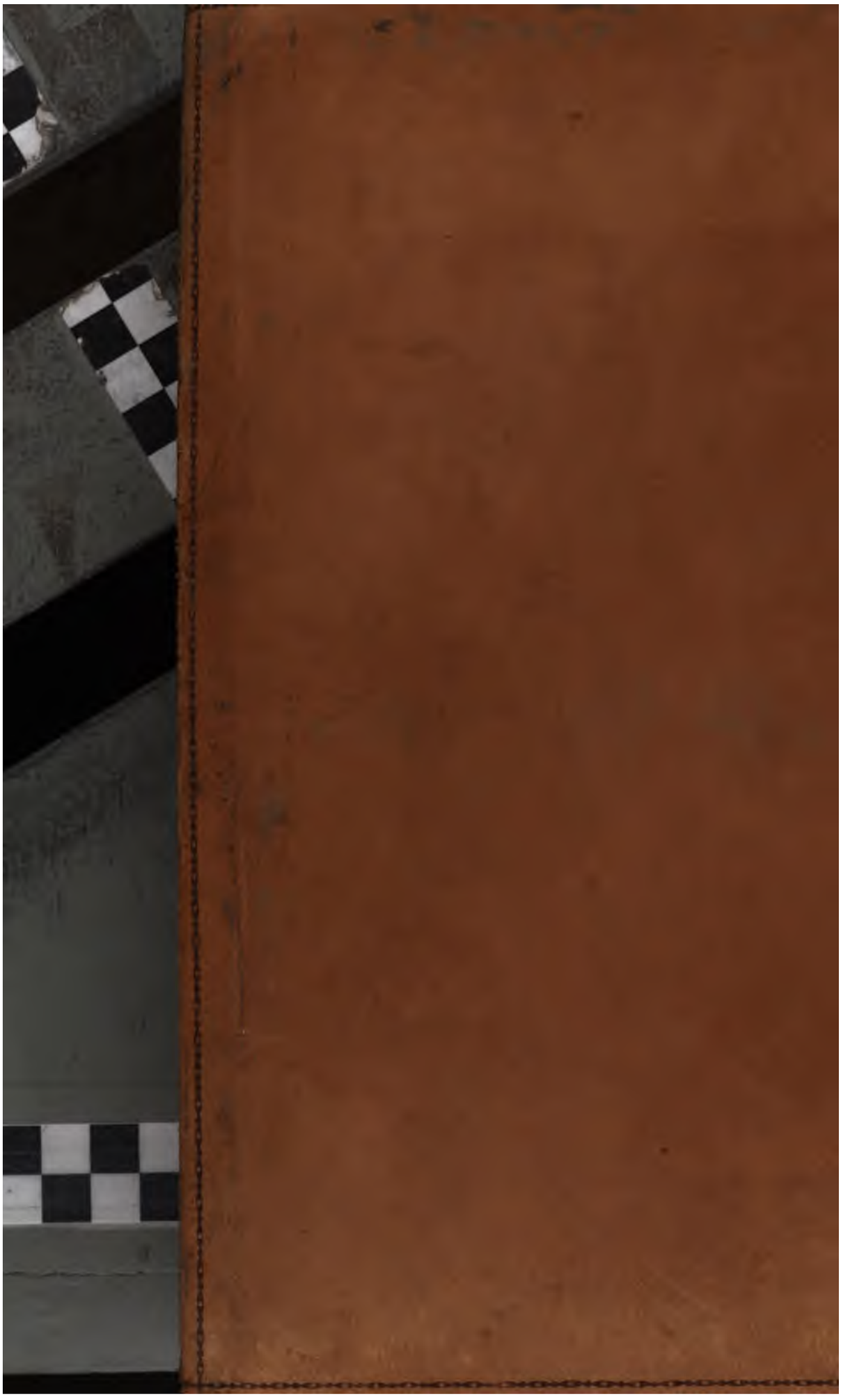
Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Rye, Chamomile and Rock" (for a Medicinal Preparation)	Cook & Bernheimer	3,606	Oct. 23	25	294
"Rye, Lime and Wheat"	Cook & Bernheimer	3,059	Mar. 13	23	942
"Rye, Rock and Chamomile" (for a Medicinal Preparation)	Cook & Bernheimer	3,605	Oct. 23	25	294
"Rye, Wheat and Lime"	Cook & Bernheimer	3,064	Mar. 13	23	942
"S. H. Sublett's Laundry and Toilet Soap"	S. H. Sublett	3,168	Apr. 24	23	1532
"Sachs, Pruden & Co.'s Famous Ginger Ale"	Sachs, Pruden & Co	3,022	Feb. 27	23	744
"Safe Antidote for Intoxication"	F. M. Welles	3,762	Dec. 11	25	984
"Saint Anne's Cough and Consumption Cure"	Brothers McCulloch	3,773	Dec. 18	25	1062
"Säkerhets-Tandstickor." (for Matches)	A. W. Winckler	3,346	July 3	24	2
"Salvation Oil" (for Liniment)	A. C. Meyer	3,229	May 22	23	1930
"Samostz's Hypnotique, The Great Texas Cough Remedy"	O. Samostz	3,141	Apr. 10	23	1340
"Sanative Salve"	Campbell & Co	3,252	June 5	23	2124
"Sarsaparellian Hygienic Wine"	B. F. Raymond	3,020	Feb. 27	23	744
"Sarsaparillian Hygienic Wine Puzzle"	B. F. Raymond	3,663	Nov. 6	25	506
"Satin Gloss," (for Lamp Black)	L. Martin & Co	3,363	July 10	24	104
"Schroeder's Corn Solvent"	F. L. Hooper & Co	3,226	May 22	23	1930
"Scott's Asthma and Lung Cure"	A. J. Scott	3,241	May 29	23	2036
"Scotts Egyptian Cream" (for a toilet preparation)	M. A. Scott	3,547	Sept. 25	24	1180
"Scratch Ointment"	J. Shorten, Jr	3,382	July 17	24	208
"Seal of Kentucky," (For Whisky)	F. T. Kuehne	2,934	Jan. 30	23	348
"Seal of Virginia" (for Tobacco and Cigars)	H. Wilkens & Co	3,722	Nov. 27	25	790
"Select" (For Beer)	P. Best Brewing Company	3,079	Mar. 13	23	942
"Self-Fastening" (for Tags)	G. N. Bucks	3,765	Dec. 18	25	1062
"Sentence-Builder or Dissected Cards"	J. R. Webb	3,699	Nov. 20	25	702
"Separable Buttons and Studs"	J. E. Lindauer	3,641	Oct. 30	25	398
"Seth's Pile Cure"	C. Spalding	3,369	July 10	24	104
"Shoe Button"	M. M. Rhodes & Sons	3,626	Oct. 23	25	294
"Shoe Button"	M. M. Rhodes & Sons	3,627	Oct. 23	25	294
"Shoemakers' and Tanners' Friendly Dressing and Blacking."	E. J. Moore	3,719	Nov. 27	25	790
"Sibley's Improved" (for Anchor Steam Boiler Compound)	C. M. Sibley	3,582	Oct. 9	25	98
"Sicilian Balsam Liniment"	J. Scaglione & Co	3,240	May 29	23	2036
"Sign Painters'" (for Lamp Black)	L. Martin & Co	3,364	July 10	24	104
"Signal Service Boot"	Stevenson & Slingluff	3,196	May 8	23	1736
"Silver Dollar" (for Tobacco)	Wellman & Dwire Tobacco Company.	3,517	Sept. 11	24	998
"Silver King" (for a preparation for Polishing Metals)	G. Kraft, E. B. Jones, and H. Egerton.	3,733	Dec. 4	25	886
"Simpson's Uterine Suppositories"	W. T. Ross	3,436	Aug. 14	24	606
"Smith Martin Centrifugal." (for Flour Bolting Machines)	G. T. Smith Middlings Purifier Company.	3,214	May 15	23	1836
"Smith's Hair Beautifier"	M. H. Smith	3,129	Apr. 10	23	1340
"Snag" (For Cigar Boxes)	A. J. Pierce	2,940	Jan. 30	23	348
"Solera Whiskies"	Luyties Brothers	3,524	Sept. 18	24	1094
"Solution Ferrous Malate"	American Pharmaceutical Manufacturing Company.	2,938	Jan. 30	23	348
"Sour Mash Toddy," (for Spirituous Liquors)	H. R. Gogreve	2,922	Jan. 16	23	196
"Special Absorbent Toweling"	G. S. Brown	2,919	Jan. 16	23	196
"Speer Brand Tomato"	Marshall Canning Company	3,393	July 24	24	306
"Speicher's Dandruff Cure"	Speicher Dandruff Cure Co	3,777	Dec. 18	25	1062
"Spread Eagle," (for Retail Clothing)	Wemple & Co	3,219	May 15	23	1836
"St. Bernard," (for Vegetable Pills)	P. Neustaedter & Co	2,924	Jan. 16	23	196
"St. Jacob's Bitters"	J. Falke	3,282	June 12	23	2242
"St. Jacobs Pills"	P. Warren	3,110	Mar. 27	23	1128
"St. Jacobs Tonic"	St. Jacobs Bitters Company	3,404	July 31	24	394
"St. Patrick's Pills"	Chamberlain & Co	3,116	Apr. 10	23	1340
"Stanard's Eagle Steam Extra Roller Process"	E. O. Stanard & Co	2,915	Jan. 16	23	196
"Stanard's Roller Process Royal Patent"	E. O. Stanard & Co	2,916	Jan. 16	23	196
"Standard Java," (for Cigars)	Jacoby & Fromer	3,659	Nov. 6	25	506
"Stay's Rheumatic Liniment"	W. H. Stay	3,383	July 17	24	208
"Steinau's Asthma Cure"	J. Steinau	3,049	Mar. 6	23	834
"Sterling" (for Flour)	Minor & Brown	3,594	Oct. 16	25	196
"Sterrett's Infallible Butternut Pills, Cathartic and Tonic"	J. Matthias and A. Sterrett	3,643	Oct. 30	25	398
"Stinard's Original Chocolate Cocoanut Tea Rolls"	W. H. Stinard	3,246	May 29	23	2036
"Sublime" (for Ribbons)	Kohn, Adler & Co	3,753	Dec. 11	25	984
"Sun Flower" (For Baking Powder)	Fahnestock Baking Powder Company.	3,030	Mar. 6	23	834
"Sunsmile" (For a Medicinal Preparation)	Cook & Bernheimer	3,090	Mar. 20	23	1036
"Superior French Furniture Polish"	E. P. and F. C. Whitcomb	3,555	Sept. 25	24	1180
"Sussex" (for Table Sauce)	F. M. Whiteman	3,386	July 17	24	208
"Sutherland's Rheumatine"	Rheumatine Manufacturing Company.	3,156	Apr. 17	23	1450
"Swedish Corn Remover"	M. Lindbladh	2,926	Jan. 16	23	196
"Sweetheart's Best Borax Soap"	Sweetheart Soap Co	3,648	Oct. 30	25	398
"Sweetwater Valley Roller Process" (for Flour Sacks)	Sweetwater Mill Co	3,549	Sept. 25	24	1180
"Swift's Specific"	Swift Specific Company	3,142	Apr. 10	23	1340
"Swiss Balsam"	G. Holdstein	3,465	Aug. 21	24	708
"Swiss Infallible Tetter Cure"	J. N. Portman & Co	3,720	Nov. 27	25	790
"Syrupus Malti Compositus" (for a Medical Preparation)	R. Fingerhut	3,374	July 17	24	208
"T. E. Richey's Anti-Malarial Pills"	T. E. Richey	3,210	May 15	23	1836
"Tantalus" (for Cigars)	Sackett, Wilhelms & Betzig	3,788	Dec. 25	25	1194
"Tarine" (for Pads for Exterminating Insects)	G. W. E. Manahan	3,209	May 15	23	1836
"Tarine" (for Toilet Paper)	M. E. Manahan	3,544	Sept. 25	24	1180
"Taylor's Sucker State Liniment"	W. B. Taylor, Sr	3,198	May 8	23	1736
"Tenney's Compound Vegetable Cough Syrup"	F. H. Tenney	3,683	Nov. 13	25	604
"Texas Fire Weed Ague & Neuralgia Pills"	A. Gorton	2,990	Feb. 20	23	634
"The A. B. C. of the Prudent Housewife." (for Soap)	Gross Bros	3,692	Nov. 20	25	702
"The American" (For Compressed Yeast)	American Compressed Yeast Company.	2,906	Jan. 9	23	96
"The American Wonder—America's Tree of Life and Knowledge" (for a Medicine.)	L. B. Greenslade	3,506	Sept. 11	24	998
"The Australian (Eucalyptus Globulus) Anti-Periodic or Fever & Ague Tonic."	F. M. McRae	3,126	Apr. 10	23	1340
"The Bell Ticket" (for Cotton Fabrics)	Grinnell Manufacturing Corporation	3,496	Sept. 4	24	904

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"The Best Matches"	Utica Match Company	3,649	Oct. 30	25	398
"The Black Ground, Rock Candy, Label"	J. H. Barker & Co	3,427	Aug. 14	24	606
"The Blue Seal Label of Philadelphia," (for Cigars)	F. Turner	3,466	Aug. 21	24	708
"The Boss" (For Wheelbarrows)	Whitney & Co	2,964	Feb. 6	23	440
"The Chief" (for Cigars)	H. Coan	3,101	Mar. 27	23	1126
"The Correct Invoice Label"	E. S. Widup	3,201	May 8	23	1736
"The Crown of all" (for Soap)	J. Seibert	3,738	Dec. 4	25	886
"The Dude's Choice Perfumes"	L. C. Paul	3,515	Sept. 11	24	998
"The Duffers," (for Cigars)	Jacoby & Fromer	3,657	Nov. 6	25	506
"The Electric Corn Cure"	J. C. Boullee	3,311	June 26	23	2416
"The Eclegm Consumption Cure"	C. Piers	3,320	June 26	23	2416
"The Eureka Pile Ointment"	M. S. Corey	3,575	Oct. 9	25	98
"The Family Physician" (for a Medical Compound)	J. T. Houchens	3,619	Oct. 23	25	294
"The Gay Line of Information." ("For Packages of Food").	D. Gay	2,956	Feb. 6	23	440
"The Genuine Kaiser Drops," (for Medical Compound)	H. Schroeder	3,212	May 15	23	1836
"The Golden Drops of Borneo." (For Chronic Coughs and Consumption.)	T. Chagnon & Co	2,898	Jan. 9	23	96
"The Grand," (for Cigars)	Jacoby & Fromer	3,660	Nov. 6	25	506
"The Great American Compounded Oil of Gaultheria" (for a Medical Compound.)	E. H. Bell	3,764	Dec. 18	25	1092
"The Great Five" (for Cigars)	Rankin & Sherrick	3,647	Oct. 30	25	398
"The Grinnell Ticket" (for Cotton Fabrics)	Grinnell Manufacturing Corporation.	3,485	Sept. 4	24	904
"The Ladies' Friend" (for a Medical Compound)	E. E. Brinkman	3,295	June 19	23	2330
"The Life of Leather," (for a Preparation for Preserving Leather.)	J. Sankey	3,666	Nov. 6	25	506
"The Light of the World" (for Patterns for a Picture)	G. D. Nichols	3,409	July 31	24	394
"The Lily on the Hudson" (for Perfumery)	M. Michaelis & Son	3,433	Aug. 14	24	606
"The Lion Brand" (for Evaporated Milk)	Ahlstrom & Thomson	3,136	Apr. 10	23	1340
"The Little Sampson," (for a Medicine)	J. L. Basford	3,467	Aug. 28	24	802
"The Mascot Tobacco Cigarette"	Pinski Brothers	3,128	Apr. 10	23	1340
"The Merchant's Stock Label." (For Woven Fibrous Goods).	G. A. Curtice	2,900	Jan. 9	23	96
"The New Board of Trade, Chicago" (for Cigars)	Tallman & Sanborn	3,550	Sept. 25	24	1180
"The New Chicago Board of Trade" (for Cigars)	I. Goldsmith & Bro	3,562	Oct. 2	25	2
"The New P. O. D." (for Cigars)	C. Abner	3,112	Apr. 10	23	1340
"The North Western Traveling Men's Association" (for Cigars.)	Weaver Bros	3,371	July 10	24	104
"The Old English Veterinary Medicine"	A. J. Kelly	3,640	Oct. 30	25	398
"The only Durable Wall Finish Alabastine"	Alabastine Company	2,909	Jan. 16	23	196
"The Oriental Coffee"	Great Atlantic and Pacific Tea Company.	3,439	Aug. 14	24	606
"The Oyster Shucker's Friend" (for a Medicine)	Schultze & Bro	3,776	Dec. 18	25	1092
"The Palace," (for Cigars)	C. F. Gall	3,710	Nov. 27	25	790
"The Peleg White Proprietary Company, New York, U. S." (for Plasters.)	P. White Proprietary Company	3,646	Oct. 30	25	398
"The Pivot Corset"	C. N. Chadwick	3,327	July 3	24	2
"The Public Benefactor." (for Whisky)	H. Snyder	3,760	Dec. 11	25	984
"The Rising Sun Shoe Blacking"	Oriental Manufacturing Company	3,492	Sept. 4	24	904
"The Science Carpet Sweeper"	G. W. Zeigler	3,464	Aug. 21	24	708
"The Senator" (for Cigars)	F. Glahn	3,138	Apr. 10	23	1340
"The Sentinel" (for Plug Tobacco)	J. H. Harris' Sons	3,617	Oct. 23	25	294
"The Seven Long-Haired Sutherland Sisters' Hair Restorer"	H. Bailey	3,184	May 8	23	1736
"The Warren Cigar"	G. T. Warren	3,052	Mar. 6	23	834
"The Washingtons"	Rankin & Sherrick	3,758	Dec. 11	25	984
"The When Cigar"	A. E. Rauch	3,340	July 3	24	2
"The Wonderful Creole Blood Purifier." (For Medicine)	D. C. Oliver	2,936	Jan. 30	23	348
"The World Imperial Catarrh Cream"	W. H. Ross	3,096	Mar. 20	23	1036
"The World Imperial Throat Tonic"	W. H. Ross	3,233	May 22	23	1930
"Théophile Roederer & Co. Extra Dry" (for Champagne Wine.)	T. Roederer & Co	3,478	Aug. 28	24	802
"Thin Mi-Concave Watch Glasses"	J. H. Purdy	3,702	Nov. 20	25	702
"Thistle" (for Liniment)	J. Mitchell	3,379	July 17	24	208
"Tioga" (for Silks and Silk Ribbons)	W. Itschner & Co	3,501	Sept. 4	24	904
"Titsworth's Sure Cure for Malaria"	Vail Brothers	3,218	May 15	23	1836
"Tokalon" (for a Hair Restorative)	R. B. Robison	3,535	Sept. 18	24	1094
"Tonawanda Mills" (For Piece Dry Goods)	Emlen & Cope	3,029	Mar. 6	23	834
"Tooker's Castilian Laxative"	W. W. Tooker and B. F. Huntting	3,026	Feb. 27	23	744
"Toothache and Neuralgic Paste or Mass"	W. J. Mandeville	2,976	Feb. 13	23	544
"Toujours" (for Manufactured Tobacco)	Thomas & Bro	3,551	Sept. 25	24	1180
"Triangle Brand," (for Extracts and Essences)	G. B. Darley	3,448	Aug. 21	24	708
"Triumph Brand" (for Canned Goods)	G. Herold	3,351	July 10	24	104
"Triumph Pills"	R. B. Robison	3,546	Sept. 25	24	1180
"Try Angle Cigar"	C. M. Angle	3,556	Oct. 2	25	2
"Try Summerford's Kornease"	L. Stout	2,894	Jan. 2	23	2
"Turkish Liniment"	E. S. Lyndon	3,715	Nov. 27	25	790
"Turkish Tobacco & Cigarette Manufactory, Monopole"	J. von Huppmann	3,075	Mar. 13	23	942
"Two Kings," (for Tobacco)	Snow, Ingham & Co	2,890	Jan. 2	23	2
"Two Sours" (for Cigars)	Rankin & Sherrick	3,271	June 5	23	2124
"Uncle Josh's Rheumatic Cure"	M. L. Eustis	2,929	Jan. 23	23	274
"Uncle Sam's Nerve and Bone Liniment"	Emmert Proprietary Company	3,416	Aug. 7	24	500
"Union Line" (for Cigars)	Hirschhorn & Bendheim	3,352	July 10	24	104
"Union Made Package," (for use on Barrels, Kegs & all kinds of Cooperage.)	Cooper's Local Assembly, No. 1742, Knights of Labor.	2,920	Jan. 16	23	196
"Union Tubing"	Union Tubing Company	3,082	Mar. 13	23	942
"Union Veteran Corps Insignia"	Union Veteran Corps	3,474	Aug. 28	24	802
"Unxld," (For Prepared Flour)	D. Jewell & Son	2,902	Jan. 9	23	96
"Urban's Best" (for Flour)	G. Urban & Co	3,497	Sept. 4	24	904
"Urban's White Moss Rose" (for Flour)	G. Urban & Co	3,496	Sept. 4	24	904
"Vail's Extracts"	I. T. Kellogg	2,957	Feb. 6	23	440
"Valentine Hassmer's Lung & Cough Syrup"	V. Hassmer	2,992	Feb. 20	23	634
"Van's Magic Oil" (for a Medicine)	N. G. Vanderlinde	3,133	Apr. 10	23	1340
"Vegetable & Mineral Compound." (For Burning Fluid)	H. P. Ellis	2,953	Feb. 6	23	440
"Veritas Bordeaux." (for Wines)	Luyties Brothers	3,455	Aug. 21	24	708
"Victor Ointment"	Ausman & Witherstine	3,426	Aug. 14	24	606
"Victor Syrup." (for a Medical Remedy)	Ausman & Witherstine	3,425	Aug. 14	24	606
"Vienna Baking Powder"	W. L. Pearson	3,645	Oct. 30	25	398

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"View of our Vineyard" (for Wine Vinegar)	Pacific Vinegar Works	3,625	Oct. 23	25	294
"Vigco" (for a Hair Tonic)	F. H. Edmunds	3,587	Oct. 16	25	196
"Vins Fins de Bordeaux" (for Wines)	Luyties Brothers	3,454	Aug. 21	24	708
"Vins Fins de Bourgogne" (for Wines)	Luyties Brothers	3,523	Sept. 18	24	1094
"Virgil," (for Cigars)	V. S. Wright	3,202	May 8	23	1736
"Vitaline" (for a medicine)	H. J. Whittier	3,135	Apr. 10	23	1340
"Von Tagans Alaxine The Great German Remedy for the Liver, Kidneys, Stomach, Blood and Heart Affections."	Wooster, Adams & Co	3,005	Feb. 20	23	634
"W. A. Allen's Improved Bundle Kindling Wood"	W. A. Allen	3,745	Dec. 11	25	984
"W. A. Allen's Improved Bundle Kindling Wood"	W. A. Allen	3,746	Dec. 11	25	984
"Ware's Common Sense Suspensory Bandage"	C. F. Ware	3,441	Aug. 14	24	606
"Water-Proof Oil Blacking"	G. M. Hyde	3,092	Mar. 20	23	1036
"Waterproof Drawing Ink"	C. M. Higgins	3,693	Nov. 20	25	702
"Waterproof Preservative Blacking"	J. A. and L. N. Van Keuren	3,083	Mar. 13	23	942
"Watt's Peptonized Soda Mint Pellets"	H. C. Watt	3,568	Oct. 2	25	2
"Wear Resisters" (for Boots & Shoes)	J. B. Lewis	3,377	July 17	24	208
"Weaver's Pride" (for Carpet Warp)	Smith & De Witt	3,583	Oct. 9	25	98
"Wellington Crystal Polish"	H. A. Page	3,154	Apr. 17	23	1450
"Wellington Mills Standard Flexible Cabinet Glass Paper"	H. A. Page	3,152	Apr. 17	23	1450
"Wellington Mills Standard Flexible Cabinet Glass Paper"	H. A. Page	3,153	Apr. 17	23	1450
"West Indian Copying Paper"	H. Hafner	3,190	May 8	23	1736
"Western Union" (for Cigars)	G. Fuchs	3,330	July 3	24	2
"Wheat and Lime"	Cook & Bernheimer	3,063	Mar. 13	23	942
"Wheat and Rye"	Cook & Bernheimer	3,067	Mar. 13	23	942
"Wheat, Beef and Iron"	C. O. Rano	2,903	Jan. 9	23	96
"Wheat, Lime and Rye"	Cook & Bernheimer	3,068	Mar. 13	23	942
"Wheat, Rye and Lime"	Cook & Bernheimer	3,060	Mar. 13	23	942
"Wheatine" (for a Medicine)	Dowie & Moise	3,328	July 3	24	2
"Wheeler's Pulmonary Balsam"	Webster & Churchill	3,247	May 29	23	2036
"Wheeler's Sarsaparilla"	Webster & Churchill	3,248	May 29	23	2036
"Whisky and Beef," (Rye Whisky and Beef Broth)	C. O. Rano	2,948	Jan. 30	23	348
"Whist Cards," (for Playing Cards)	Fireside Card Company	2,887	Jan. 2	23	2
"White O. N. T." (For Thread)	Clark Thread Company	2,959	Feb. 6	23	440
"White Crane," (for Flour)	Huber & Wack Milling and Live Stock Company.	3,468	Aug. 28	24	802
"White Rose Brand," (for Lard)	J. Dold & Son	3,145	Apr. 17	23	1450
"White Swan" (for Flour)	Meyer & Bulte	3,624	Oct. 23	25	294
"White Swan" (for Flour)	Minor & Brown	3,593	Oct. 16	25	196
"Whiting's Magic" (for Marking Ink)	F. A. Whiting	3,631	Oct. 23	25	294
"Whiting's Process Drawing Ink"	F. A. Whiting	3,700	Nov. 20	25	702
"William Tucks Anti Costive Pills"	W. H. Tuck	3,778	Dec. 18	25	1082
"Wilson's Cough Annihilator"	F. H. Wilson	3,502	Sept. 4	24	904
"Wine"	H. M. Upham	2,944	Jan. 30	23	348
"World's Shoe House," (for Boots and Shoes)	W. G. Hoover	3,283	June 12	23	2242
"Writing Paper"	H. W. Southworth	3,739	Dec. 4	25	886
"Xanthine," (for Hair Restorative)	E. F. Hunt and S. L. Pellet	3,785	Dec. 25	25	1194
"Yates's Rocky Mountain Vegetable Compound"	O. Yates and C. Saberhagen	3,689	Nov. 13	25	604
"Ye Olden Time Coffee"	J. W. Houston & Co	3,620	Oct. 23	25	294
"Ye Philadelphia Club Whisky"	Nathan Brothers	3,787	Dec. 25	25	1194
"Yerba-Santa" (for a Medicine)	Farrington & Co	3,399	July 31	24	394
"Young's German Botanic Bitters"	F. H. Young & Co	3,463	Aug. 21	24	708
"Zingari, The Gypsie Queen's Secret" (for Ointment)	E. E. Murray & Co	3,477	Aug. 28	24	802

DISCLAIMERS.

Invention.	Patentee.	No. of patent.	Date of patent.	Disclaimer filed.	Official Gazette. Vol.	Page.
Air-brake. Locomotive	George Westinghouse, Jr.	144,005	Oct. 28, 1873	Feb. 3, 1883	23	544
Boot or shoe sole	John D. Stoddard	252,152	Jan. 10, 1882	May 4, 1883	23	1836
Bottle-stopper	Charles G. Hutchinson. (Reissue)	8,755	June 17, 1879	June 18, 1883	23	2416
Car-spring	Albert Hebbard. (Reissue)	4,670	Dec. 12, 1871	Mar. 9, 1883	23	1036
Filtering saccharine solutions, &c	Paul Casamajor	270,634	Jan. 16, 1883	Dec. 7, 1883	25	1082
Glycerine from fatty-matter. Extracting	Victor Litzelmann	267,753	Nov. 21, 1882	Dec. 26, 1882	23	2
Hat	George Mallory	74,392	Feb. 11, 1868	Oct. 3, 1883	25	98
Hod-elevator	Jesse Powers. (Reissue)	10,052	Mar. 7, 1882	Oct. 27, 1883	25	506
Lamp. Electric	Charles F. Brush. (Reissue)	8,718	May 20, 1879	Apr. 6, 1883	23	1450
Screw-conveyer	Towner K. Webster and J. Chivill	276,103	Apr. 17, 1883	June 13, 1883	23	2330
Screw. Drive-	David F. Fetter. (Reissue)	8,121	Mar. 12, 1878	Apr. 6, 1883	23	1450
Shade-pull	Charles F. Pease	280,507	July 3, 1883	July 14, 1883	24	306
Shoe	George H. Bass	252,715	Jan. 24, 1882	Dec. 12, 1883	25	1082
Skylight	George Hayes. (Reissue)	8,688	Apr. 29, 1879	Jan. 13, 1883	23	274
Soldering-iron	Jabez A. Bostwick. (Reissue)	8,466	Oct. 29, 1878	Sept. 25, 1883	25	2
Vault-cover	Theodore Sharts	138,204	Apr. 22, 1873	Apr. 17, 1883	23	1532
Wagon for unloading coal	John H. Wood. (Reissue)	9,368	Aug. 31, 1880	Sept. 14, 1883	24	1180
Water-closet of railways	Alonzo Bell	175,909	Apr. 11, 1876	June 14, 1883	23	2330